

OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION

Ph. No. 06766-254315, Fax No. 06766-254315 E.mail- dfokjr.od@gov.in

No. 6499 / Mining

Dated, Keonjhar, the 20-10-2017

To

The General Manager,
Bolani Ore Mines (6.90 Sq Miles) of M/s SAIL
At/ P.o- Bolani, Dist- Keonjhar

Sub: Proposal for diversion of 124.313 ha of Sabik Kissam forest land as on 25.10.1980 (treated as non-forest land in hal record) out of total forest land of 723.312 ha (including sabik Kissam forest land of 238.093 ha) located within the ML hold area over 1586.36 ha of Bolani Ore Mines (6.90 sq miles) of Steel Authority of India Limited (SAIL) in village of Bolani, Balagoda, Limtur etc. and Karo Reserved Forests under Barbil Tahasil of Keonjhar district, Odisha during 2nd RML period.

X-Sub: **Submission of compliance of Stage-I stipulations imposed by MoEF&CC, Govt. of India.**

Ref: Letter No. 8-87/1996-FC(Vol. I) dated 12.09.2017 of MoEF&CC, Govt. of India, and No. 20259/F&E dated 03.10.2017 of Special Secretary to Govt. of Odisha, Forest & Environment Department, Bhubaneswar (Copy enclosed).

Sir,

This is to apprise that Govt. of India, Ministry of Environment and Forests and Climate Change has accorded Stage-I approval in respect of the aforementioned project vide letter No. 8-87/1996-FC(Vol. I) dated 12.09.2017 for diversion over 124.313 ha of Sabik Kissam forest land as on 25.10.1980 in respect of Bolani Ore Mines of M/s. M/s Steel Authority of India Limited subject to fulfillment of 27 no. of conditions. The letter No. 8-87/1996-FC(Vol. I) dated 12.09.2017 of MoEF&CC, Govt. of India, and No. 20259/F&E dated 03.10.2017 of Special Secretary to Govt. of Odisha, Forest & Environment Department, Bhubaneswar. is enclosed herewith for your reference. In addition, 4 nos. additional conditions have been imposed by the State Govt. F&E Department. In this context, you are requested to submit the compliance of the stipulation as aforementioned to this office at the earliest possible along with undertakings, documents and schemes as depicted hereunder against the conditions mentioned through the Range Officer, Barbil Range for necessary action at this end.

Conditions imposed vide Stage-I approval order	Required undertakings/ documents/ schemes
2(i), 2(vi), 2(ix), 2(xii), 2(xiii), 2(xvi), 2(xvii), 2(xviii), 2(xix), 2(xx), 2(xxi), 2(xxv), 2(xxvi), 2(xxvii) & (D)	Undertakings
2(ii), 2(iii), 2(iv), 2(v), 2(x), 2(xi), 2(xiv), 2(xv), 2(xxii) and additional condition of State Govt. (A), (B), (C)	Documents
2(vii) (a, b, c, d and e), 2(viii), 2(xxiii), 2(xxiv)	Schemes

Encl: As above.

Yours faithfully,


Divisional Forest Officer,
Keonjhar Division.

OFFICE OF THE FOREST RANGE OFFICER BARBIL RANGE, BARBIL

Memo No 1007 / Date 12 11 17

To.

The Divisional Forest Officer,
Keonjhar Division, Keonjhar

Sub.-

Proposal for diversion of 124,313 ha. of Sabik kism forest land as on 25.10.1980 (treated as non-forest land in Hal record) out of total forest land of 723,312 ha (including Sabik kism forest land 238,093 ha) located within the ML hold area over 1586.36 ha of Bolani Ore Mines (6.90 sq miles ML) of SAIL in villages Bolani, Balagoda, Limtur etc. and Karo RF under Barbil Tahasil of Keonjhar dist., Odisha during 2nd RML period

X-Sub

Submission of compliance of Stage-I stipulations imposed by MOEF & CC Govt of India

Ref

Your memo no - 6500 dt 20.10.2017

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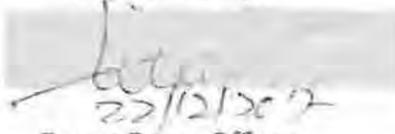
On the captioned subject in obedience to your memo under reference, I am to report your good self that the General Manager (M), Bolani Ore Mines of M/s SAIL, vide his letter no GM/B/HD-2212 dt 22.12.2017 has submitted the compliances & schemes against the conditions imposed vide Stage-I approval order of MOEF&CC, Govt of India vide their letter no- 8-87/1996 - FC(vol. I) dt 12.09.2017, for diversion of 124.313 ha Sabik kism forest land as on 25.10.1980 within 6.90 sq miles ML of Bolani Ores Mines of M/s SAIL.

Now I am enclosing herewith the said letter of user agency with the required compliance, schemes and undertaking for favour of your perusal and necessary action at your end

Yours faithfully,

Encls. As above

Received
20/12/2017
D/O the Divisional Forest Officer
Keonjhar Division


22/12/2017
Forest Range Officer
Barbil Range

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड

STEEL AUTHORITY OF INDIA LIMITED

रॉ मटेरियल्स डिवीजन

RAW MATERIALS DIVISION

बोलानी अयस्क खदान

BOLANI ORES MINES



Ref: GM/B/HO - 2212

25 22.12.2017

To

The Divisional Forest Officer,

Keonjhar

Through : The Forest Range Officer, Barbil Forest Range

Sub:- Proposal for diversion of 124.313 ha of sabik kisam forest Land recorded as on/after 25th October 1980 (treated as non forest Land in HAL record) out of total forest land of 723.312 ha (including sabik kisam forest land of 238.093 ha) located within the ML hold area over 1586.36 ha of Bolani Ore Mines (6.90 Sq Miles) of Steel Authority of India Limited(SAIL) in villages of Bolani, Balagoda, Lintur etc and Karo Reserved Forests under Barbil Tahasil of Keonjhar District, Odisha during 2nd RML period .

X-sub : Submission of Compliance of Stage-I stipulations imposed by MoEF & CC, Govt of India - forwarding of compliance schemes and undertaking

Ref.: Memo no 6500 / Mining dt 20.10.2017 & 7139/Mining dt 16.11.2017 of DFO Keonjhar

Sir,

In inviting reference to the subject cited above , this is to inform you that the following schemes are submitted by us in accordance with the current wage rate of Rs. 213.50/- per man-day as per revised cost norm issued and CPWD/DSR norms wherever applicable , for further technical approval of appropriate authority for transfer of fund and necessary implementation of the schemes to comply concerned conditions of in-principle approval accorded by MoEF&CC,GOI :

- Condition no.- vii(a) :** A plan containing mitigative measures to minimize soil erosion and chocking of streams within the Mining lease area over 6.90 Sq. Miles ML of Bolani Iron Ore Mine of M/s SAIL for Rs.1,37,40,645/- prepared at the present wage rate of Rs. 213.50/- per man-day .
- Condition no.- vii(b) :** The scheme for planting of adequate drought hardy plant species and sowing of seeds in the appropriate area within the Mining Lease to arrest Soil Erosion for Rs.48,19,932/-prepared at the present wage rate of Rs.213.50/- per man-day .
- Condition no.- vii(c) :** The scheme for construction of Check Dams, retention/Toe walls to arrest sliding down of the excavated materials along the contour for Rs.69,32,522/- prepared at the present wage rate of Rs.213.50/- per man-day.

Contd..p/2

- d) **Condition no.- vii(d)** : A Plan to stabilize the overburden dumps by appropriate grading/ benching so as to ensure that angles of repose at any given place is less than 28° by using our own mining machineries as per approved mining plan.
- e) **Condition no.- vii(e)** : A Plan for Top Soil Management for Rs 21,74,460/- prepared at the present wage rate of Rs. 213.50/- per man-day.
- f) **Condition no.- viii** : The Scheme for fencing , protection and regeneration of safety zone area within Mining Lease for Rs. 63,89,293.00, prepared at the present wage rate of Rs. 213.50/- per man-day .
- g) **Condition no.- xxiii** : The scheme for Gap Plantation and Soil & Moisture Conservation Activities to restock and rejuvenate the degraded open Forests (having crown density less than 0.4) if any, located in the area within 100 M from outer perimeter of the Mining lease for Rs.14,72,366/- prepared at the present wage rate of Rs. 213.50/- per man-day .
- h) **Condition no. - xxiv** : The scheme for De-Silting of Village Tanks and other Water Bodies within Five Km From the Mine Lease Boundary prepared at the cost of Rs.74,85,686/- as per CPWD(DSR) norms .
- i) Undertaking for compliance of the list of conditions stipulated vide memo under reference .
- j) Copy of Authenticated Entire Landuse plan of 6.90 ML.
- k) Authenticated Land schedule of 124.313 Ha
- l) Copy of Deposit Slip of CA fund

This also to inform you that 100% tree enumeration over 99.032 ha sabik forest land is in progress .

In view of the above, we request you to kindly forward the above schemes and documents for necessary compliance of conditions of in-principle approval (Stage-I) for diversion of 124.313 ha sabik kism forest Land recorded as on/after 25th October 1980 (treated as non forest Land in HAL record).

Thanking you,

Yours faithfully,

General Manager
Bolani Ores Mines, M/s SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, ज्योझार, ओडीशा
Bolani-758 037, Keonjhar, Odisha

Encls : As above

POINTWISE COMPLIANCE OF CONDITIONS OF STAGE-I GRANT ORDER VIDE F.NO.8-87/1996-FC (Vol-I)
DT.12.09.2017 FOR DIVERSION OF 124.313 HA SABIK KISAM FOREST LAND WITHIN 6.90 sq MILES ML OF
BOLANI ORES MINES, M/S SAIL

Sl. No.	CONDITIONS	COMPLIANCE STATUS
I	Legal status of the diverted forest land shall remain unchanged .	Legal status of the diverted forest land is not changed. An undertaking to this effect is attached as Annexure-I .
II	Compensatory afforestation over the degraded forest land, twice in extent to the area of forest land proposed to be diverted(i.e 124.313 ha x 2 = 248.626 ha), shall be raised on the identified forest land in Laxmiposi RF under Champua Forest Range of Keonjhar Forest Division within a period of three years with effect from the date of issue of Stage-II clearance and maintained thereafter in accordance with the approved Plan in consultation with the State Forest Department at the cost of the user agency	<p>Degraded forest land over 248.626 ha.for Compensatory Afforestation(twice in extent of 124.313 ha. of forest land being diverted) was initially identified in Laxmiposi RF under Champua Forest Range of Keonjhar Forest Division. However, during presentation of the proposal, the Regional office of MoEF & CC, Bhubaneswar had observed that 95% of the degraded forest land identified in Laxmiposi Reserved Forests in Champua Range of Keonjhar Forest Division, identified for compensatory afforestation, is comprised of Medium to Very Dense Forest as per GIS based Decision Support System(DSS) . Therefore the Regional Office of MoEF & CC, Bhubaneswar had suggested for identification of alternate suitable site for CA against the above forest diversion proposal.</p> <p>In view of such observation of MoEF&CC, the extent of degraded forest required for CA over 248.626ha. land was again identified in Chhatam RF(Hathidharsa Block) in Rajgangpur Range of Rourkela Forest Division and site specific CA scheme was prepared for which PCCF, Odisha had accorded technical approval and the same has been is forwarded to MoEF&CC GOI vide letter no 10F (Conns) 255/2016 /20768 /F&E Bhubaneswar Dt 10.11.2016 . Hence, Compensatory afforestation over the degraded forest land, to the extent of 248.626 ha, shall be raised on the identified forest land in Chhatam RF(Hathidharsa Block) in Rajgangpur Range of Rourkela Forest Division instead of Laxmiposi RF under Champua Forest Range of Keonjhar Forest Division. The copy of above communication is enclosed as Annexure-II .</p>
III	The land identified for the purpose of CA shall be clearly depicted on a Survey of India topo-sheet of 1:50000 scale	The land identified for the purpose of CA has been clearly depicted on the SOI topo-sheet of 1:50,000 scale as key plan on the map of CA Land . Further , the same has been shown on Survey of India topo-sheet of 1:50000 scale separately & attached as Annexure - III .
IV	The User Agency shall transfer the cost of raising and maintaining the compensatory afforestation at the current wage rate in consultation with State Forest Department in the account of Ad-hoc CAMPA of the concerned State through online portal. The scheme may include appropriate provision for anticipated cost	The cost of raising and maintaining compensatory afforestation as per the approved scheme amounting to Rs 1,90,40,800.00.00/- (One Crore Ninety Lakhs Forty Thousand Eight Hundred only)has been transferred through online portal in the account of Ad-hoc CAMPA i.e ORISSA CAMPA / 150825820126526, CORPORATION BANK/ FCS BANGALORE/ CORP0000633 vide -. "CR17999851" dated 22-Dec-2017 ,UTR no-

POINTWISE COMPLIANCE OF CONDITIONS OF STAGE-I GRANT ORDER VIDE F.NO.8-87/1996-FC (Vol-I)
DT.12.09.2017 FOR DIVERSION OF 124.313 HA SABIK KISAM FOREST LAND WITHIN 6.90 sq MILES ML OF
BOLANI ORES MINES, M/S SAIL

Sl. No.	CONDITIONS	COMPLIANCE STATUS
	increase for works scheduled for subsequent years	SBINR12017122200034911 . The copy of proof of deposition of amount is enclosed as Annexure-IV .
V	The User Agency shall transfer online, the Net Present Value (NPV) of the forest land being diverted under this proposal, as per the orders of the Hon'ble Supreme Court of India dated 28.03.2008, 24.04.2008 and 09.05.2008 in Writ Petition (Civil) No. 202/1995 and the guidelines issued by this Ministry vide its letter No. 5-3/2007-FC dated 05.02.2009. The requisite funds shall be transferred through online portal into Ad-hoc CAMPA account of the State Concerned	The Net Present Value (NPV) of the sabik forest land being diverted under this proposal (i.e 238.093 hectare of Non-Forest land recorded as sabik forest as on 25.10.1980), for an amount Rs 17, 38, 07,890/- have been deposited , as per the then prevailing payment mode; i.e vide RTGS UTR No SBINR52016071332114863 dt.13.07.2016 in CAF A/c No 344902010105428 of Union Bank of India Sunder Nagar, New Delhi towards Net Present Value . The copy of proof of deposition of the aforesaid amount is enclosed as Annexure-V . It is also worthwhile to mention here that, earlier, an amount Rs 36, 94, 82,200/- have been deposited vide Cheque No. 597662 dt.29.05.2010 and Cheque No. 597673 dt.03.07.2010 in CAMPA Account 1585 towards Net Present Value for 506.14 hectare of Reserved and Revenue Forest land there by completing NPV payment for all forest land applied for diversion .
VI	At the time of payment of the Net Present Value (NPV) at the then prevailing rate , the User Agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India	An undertaking to this effect to pay the additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India is attached as Annexure-I
VII	Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account	Necessary Technical Plans/schemes have been prepared for the activities stipulated below, with provision of fund for appropriate cost of the plan/scheme to be deposited in Adhoc CAMPA Account on receiving demand note, for implementation of the scheme, as follows :
a	Mitigative measures to minimize soil erosion and choking of stream shall be implemented within a period of three year with effect from the issue of Stage-II clearance in accordance with the approved Plan in consultation with the State Forest Department	A scheme containing appropriate mitigative measures for minimizing soil erosion and choking of streams has been prepared with a financial outlay of Rs. 1,37,40,645.00/- (One Crore thirty seven lakhs forty thousand six hundred forty five only) and is enclosed in Annexure –VII(A) .
b	Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion in accordance with the approved scheme	A scheme for Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion has been prepared with a financial outlay of Rs. 48,19,932.00/- (Rupees Forty eight lakhs nineteen thousand nine hundred and thirty two Only) and is enclosed in Annexure –VII(B) .

POINTWISE COMPLIANCE OF CONDITIONS OF STAGE-I GRANT ORDER VIDE F.NO.8-87/1996-FC (Vol-I)
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BOLANI ORES MINES, M/S SAIL

Sl. No.	CONDITIONS	COMPLIANCE STATUS
c	Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved scheme	A scheme for Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour has been prepared with a financial outlay of Rs 69,32,522/- (Rupees Sixty Nine lakhs thirty two thousand five hundred twenty two only) and is enclosed in Annexure –VII(C) .
d	Stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 28 degree; and	A scheme to Stabilize the overburden dumps by appropriate grading/benching, so as to ensure that angles of repose at any given place is less than 28 degree has been prepared and is enclosed in Annexure –VII(D) , for implementation by M/s SAIL-Bolani Ore Mines in accordance with approved Mining Plan .
e	No damage shall be caused to the top-soil and the user agency will follow the top soil management plan	A scheme for Top Soil Management has been prepared with a financial outlay of Rs. 21,74,460/- (Rupees Twenty One Lakhs seventy four thousand four hundred and sixty Only) and is enclosed in Annexure –VII(E) . No damage will be caused to the top-soil and the top soil management plan will be implemented .
VIII	Fencing, protection and regeneration of the safety zone area [7.5 meters strip shall be kept within the mining lease boundary and area of the- safety zone shall be part of the total area of mining lease as per the Ministry's guidelines dated 27.05.2015] shall be done within three year at the project cost from the issue of Stage-II Clearance. Besides this afforestation on degraded forest land to be selected elsewhere measuring one & a half times the area under safety zone shall also be done at the project cost; The degraded forest land (DFL) so selected will be informed to the MoEF & CC with shape files and afforestation will be done within three years from the date of Stage-II clearance and maintained thereafter in accordance with the approved Plan in .consultation with the State Forest Department	<ol style="list-style-type: none"> 1. The scheme for Fencing, protection and regeneration of the safety zone area has been prepared with a financial outlay of Rs. 63,89,293.00/- (Sixty three lakhs eighty nine thousand and two hundred ninety three only) and is enclosed in Annexure –VIII (A) . As such ,the 7.5 meters strip has been kept within the mining lease boundary and thereby the area of the- safety zone is part of the total area of mining lease as per the Ministry's guidelines dated 27.05.2015 . 2. Degraded forest land (DFL) to an extent of 22.122 hectares (measuring 1.5 times area under safety zone; i.e 1.5 x 14.748 ha) has been identified in Laxmiposi RF of Champua Range of Keonjhar Forest Division, for undertaking afforestation at the project cost . 5 copies each of map of such DFL with key plan on SOI Toposheet (1:50,000) along with shape files have been submitted vide memo no _____ Dt _____ of Range officer of Champua Range. 3. The necessary costs of the above schemes for undertaking afforestation within three years from the date of Stage-II clearance and maintenance thereafter will be transferred to the concerned account on receiving demand note, in accordance with the approved Plan/ schemes .
IX	Period of diversion of the said -forest land under this approval shall be for a period co-terminus with the period of the	An undertaking to this effect is attached as Annexure-I .

POINTWISE COMPLIANCE OF CONDITIONS OF STAGE-I GRANT ORDER VIDE F.NO.8-87/1996-FC (Vol-I)
DT.12.09.2017 FOR DIVERSION OF 124.313 HA SABIK KISAM FOREST LAND WITHIN 6.90 sq MILES ML OF
BOLANI ORES MINES, M/S SAIL

Sl. No.	CONDITIONS	COMPLIANCE STATUS
	mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act, 1957, as amended and the Rules framed there-under.	
X	Any fund received from the user agency under the project and deposited in the State Forest Department account, except the funds realized for regeneration/ demarcation of safety zone, shall be transferred through online portal into Ad-hoc CAMPA account of the State Concerned.	Noted. Documents to this effect are enclosed as Annexure-IV .
XI	The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required	Environmental clearance has been obtained as per provisions of EP Act, 1986 vide letter No. J-11015/396/2008 - IA II(M) dated 21.12.2012 and the same is enclosed as Annexure-IX .
XII	No labour camp shall be established on the forest land	No labour camp will be established on the forest land. An undertaking to this effect is attached as Annexure-I .
XIII	The User Agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas	An undertaking to this effect is attached as Annexure-I .
XIV	The boundary of the diverted forest land, mining lease and safety zone, as applicable, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates	Bolani Ore Mines has already demarcated the boundary of forest land to be diverted, mining lease and safety zone in the field by erecting four feet high RCC pillars and serial number, GPS coordinates and forward & backward bearings has been inscribed on the pillars.
XV	The User Agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the	There is no excavation of ore at present inside the 6.90 sq miles Mining Lease as mining in the instant lease have been stopped since 1980. On resumption of mining after getting forestry clearances, mining will be undertaken in a phased manner for taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan will be implemented from the very first year, and an annual report on implementation will be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry

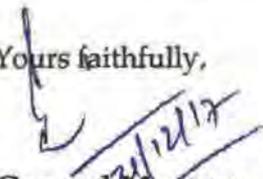
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 BOLANI ORES MINES, M/S SAIL

Sl. No.	CONDITIONS	COMPLIANCE STATUS
	Nodal Officer or the Addl. Pr. Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities area satisfactorily executed.	
XVI	The layout plan of the mining plan/proposal shall not be changed without the prior approval of the Central Government	An undertaking to this effect is attached as Annexure-I .
XVII	The forest land shall not be used for any purpose other than that specified in the proposal	An undertaking to this effect is attached as Annexure-I .
XVIII	The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government	An undertaking to this effect is attached as Annexure-I .
XIX	No damage to the flora and fauna of the adjoining area shall be caused	An undertaking to this effect is attached as Annexure-I .
XX	Any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department	An undertaking to this effect is attached as Annexure-I .
XXI	The user agency will abide by the applicable recommendations of the State Government	An undertaking to this effect is attached as Annexure-I .
XXII	The State Government shall complete settlement of rights, in terms of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, if any, on the forest land to be diverted and submit the documentary evidence as prescribed by this Ministry in its letter No. 11-9/1998-FC (pt.) dated 03.08.2009 read with 05.07.2013, in support thereof.	The formalities for complete compliance of settlement of rights, in terms of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, has been completed for the sabik forest land to be diverted . The certificate of Collector, Keonjhar is awaited .
XXIII	User agency either himself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 m. from outer perimeter of the mining lease. The plan for plantation and SMC activities will be prepared and submitted to MoEF &CC before Stage-II	A Scheme for gap planting and soil & moisture conservation activities has been prepared with the objective to to restock and rejuvenate the degraded open forest around the ML area with a financial outlay of Rs. 14,72,366.00 (Rupees Fourteen lakhs seventy two thousand and three hundred sixty six only) and is enclosed in Annexure -X .

POINTWISE COMPLIANCE OF CONDITIONS OF STAGE-I GRANT ORDER VIDE F.NO.8-87/1996-FC (Vol-I)
DT.12.09.2017 FOR DIVERSION OF 124.313 HA SABIK KISAM FOREST LAND WITHIN 6.90 sq MILES ML OF
BOLANI ORES MINES, M/S SAIL

Sl. No.	CONDITIONS	COMPLIANCE STATUS
	Clearance.	
XXIV	The User Agency shall prepare a list of existing village tanks and other water bodies with GPS co-ordinates located within five km. from the mine lease boundary. This list is to be duly verified by the concerned Divisional Forest Officer. The User Agency shall regularly undertake desilting of these village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/water bodies A detailed plan for desilting of identified ponds and water bodies to be prepared in consultation with forest department and shall be submitted to MoEF & CC before Stage-II approval	A Scheme for De-silting of village tanks and other water bodies within 5 km from ML boundary has been prepared with the objective to mitigate the impact of siltation of such tanks/water bodies , with a financial outlay of Rs. 74,85,686.00 (Seventy Four Lakhs Eighty Five thousand six hundred eighty six only) for regular implementation and is enclosed in Annexure -XI . The locations (GPS Co-ordinates) of the village tanks and water bodies proposed to be de-silted have been plotted on SOI toposheet of 1:50,000 Scale which is enclosed in the scheme.
XXV	The User Agency shall submit the annual self - compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year	An undertaking to this effect is attached as Annexure- I .
XXVI	Any other condition that the concerned Regional Office of this Ministry may stipulate, from time to time, in the interest of conservation, protection and development of forests & wildlife; and	An undertaking to this effect is attached as Annexure- I .
XXVII	The user agency shall comply all the provisions off the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and National Green Tribunal Order(s) pertaining to this project, if any, for the time being in force, as applicable to the project	An undertaking to this effect is attached as Annexure- I .

Yours faithfully,


General Manager

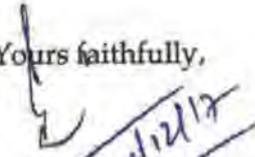
Bolani Ores Mines, M/s SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्वॉर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

**COMPLIANCE OF ADDITIONAL CONDITIONS IMPOSED BY
FOREST & ENVIRONMENT DEPARTMENT, GOVERNMENT OF ODISHA**

Sl. No.	CONDITIONS	COMPLIANCE STATUS
A	Collector, Keonjhar shall furnish required FRA compliance pertaining to 238.093ha. (Including 124.313ha. applied for diversion) of sabik kisam forest land as on 25.10.1980 (non-forest land in HAL record) in this lease before obtaining Stage-II forest clearance for the instant forest diversion proposal. Besides, other compliances like Gram Sabha Resolutions, English version thereof, proceedings of DLC/SDLC etc of 505.62ha of forest land shall also be furnished.	The formalities viz, Gramsabha, SDLC , DLC etc. for complete compliance of settlement of rights, in terms of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, has been completed for the 238.093ha. (including 124.313ha applied for diversion) of sabik kisam forest land as on 25.10.1980 (non-forest land in HAL record) sabik forest land to be diverted is completed . The certificate of Collector is awaited . Further , compliances like the Gram Sabha Resolutions, English version thereof, proceedings of DLC/SDLC etc of 505.62ha of forest land is enclosed as Annexure-XII .
B	Land schedule of 124.313 ha of sabik kisam forest land as on 25. 10.1980 authenticated by Tahasildar, Barbil and duly countersigned by DFO, Keonjhar shall be furnished.	Land schedule of 124.313 ha of sabik kisam forest land as on 25. 10.1980 authenticated by Tahasildar, Barbil and Forest Range Officer, Barbil is enclosed as Annexure-XIII for counter signature of DFO Keonjhar .
C	Land use plan of the ML area of 1586.36ha indicating sabik kisam forest land now applied for diversion, non-forest land, virgin forest/ sabik forest/ non-forest shall be furnished.	The Land use plan of the ML area of 1586.36ha indicating sabik kisam forest land now applied for diversion, non-forest land, virgin forest/ sabik forest/ non-forest and land proposed to be surrendered and not involved in diversion is furnished as Annexure-XIV .
D	In view that 124.313ha of sabik kisam forest land now proposed for diversion out of 238. 093 ha. of sabik kisam forest land for infrastructural purpose and remaining forest/sabik kisam forest land are not likely to be used for non-forest use, such forest/ sabik kisam forest land including the portion located in safety zone is to be protected and Preserved by the lessee at their cost. Tree enumeration of such forest land shall be taken up by the DFO, Keonjhar for facilitating the lessee in this context. DFO, Keonjhar shall maintain strict vigil to ensure that no illegal activities take place on such un-diverted forest land and vegetation over such forest land remains intact.	The remaining sabik kisam forest land to an extent of 99.032 ha which is not likely to be used for non-forest use, such forest/ sabik kisam forest land including the un-broken portion located in safety zone will be protected and Preserved by Bolani Ores Mines, M/s SAIL at the project cost in facilitation with DFO Keonjhar. An undertaking to this effect is attached as Annexure- I . The tree enumeration over remaining sabik kisam forest land to an extent of 99.032 ha is in progress, by Forest Range Officer,Barbil .

Yours faithfully,


General Manager

Bolani Ores Mines, M/s SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, रवोज़र, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

Annexure-I



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
रॉ मेटेरियल्स डिवीजन
RAW MATERIALS DIVISION
बोलानी अयस्क खदान
BOLANI ORES MINES

Date: 21.12.2017

UNDERTAKING

I, on behalf of Bolani Ores Mines, M/s SAIL, hereby undertake to comply the following conditions as stipulated in Stage-I FC Order vide F.No.8-87/1996-FC(Vol.I) Dt.12.09.2017 granted by MoEF & CC,GOI :

1. That the legal status of diverted Forest land will remain unchanged.
2. That the additional amount of Net Present Value(NPV), if determined, as per the final decision of Hon'ble Supreme Court of India shall be paid by Bolani Ores Mines, M/s SAIL to the State Govt. of Odisha.
3. That the period of diversion of Forest Land shall be for the period coterminous with the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act,1957, as amended and the Rules frames thereunder.
4. That no labour camp will be established on the above forest land.
5. That alternate fuels will be provided to the labourers and staff of BOM working at the site so as to avoid any damage and pressure on the nearby forest areas.
6. That no Changes in layout plan of the mining plan/ proposal shall be done without prior approval of the Central Government.
7. That the forest land will not be used for any purpose other than that specified in the proposal.
8. That the forest land proposed to be diverted will not be transferred to any other agency, department or person without prior approval of the Central Government.
9. That no damage to the flora and fauna of the adjoining area will be caused.
10. That any tree felling will be done only when it is unavoidable and that too under strict supervision of the Odisha State Forest Department.
11. That Bolani Ores Mines will abide by the applicable recommendations of the Odisha State Government.
12. That the annual self - compliance report in respect of the conditions stipulated in the Stage-I FC Grant Order will be submitted to the State Government, concerned Regional Office and to the Ministry by the end of March every year.
13. That additional conditions stipulated by Regional Office of Ministry, from time to time, in the interest of conservation, protection and development of forests & wildlife will be complied.
14. That Bolani Ores Mines shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order(s) and National Green Tribunal Order(s) pertaining to the project, if any, for the time being in force, as applicable to the project.
15. That no Non-Forestry activities will be carried out within the remaining 99.023 ha sabik kisam Forest Land out of 238.093 ha sabik forest land and the same including portion located in Safety Zone will be protected and preserved at the project cost in compliance to the additional condition(D) stipulated by F&E Department, Govt of Odisha

महाप्रबंधक (अयस्क खदान) / General Manager (Mines)
बोलानी अयस्क खदान / Bolani Ores Mines, M/s SAIL
SAIL-RMD-Bolani Ores Mines

स्टील अथॉरिटी ऑफ इण्डिया, लिमिटेड रॉ मेटेरियल्स डिवीजन, बोलानी अयस्क खदान, पो. : बोलानी - 758037, ज्यॉर, ओडीशा
Steel Authority of India Ltd., Raw Materials Division, Bolani Ores Mines, PO. : Bolani - 758037, Dist. Keonjhar, Odisha
दूरभाष / Telephone : 06767 - 260211 (O) फैक्स / Fax 06767 - 260172, Email : rmdbom@gmail.com, Website : www.sail.co.in

Annexure-II

Government of Odisha
Forest & Environment Department

-0-

No.10F (Cons) 255/2016 2076 8/F&E, Bhubaneswar, dated. 10-11-16

From

Sri Debidutta Biswal, IFS,
Special Secretary to Government.

To

The Assistant Inspector General of Forests,
Govt. of India, Ministry of Environment & Forest and Climate Change
(.F.C.Division), Indira Paryavaran Bhawan,
Jor Bagh, Aliganj Road
New Delhi -110003

Sub: Proposal for diversion of 124.313ha. of sabik kism forest land as on 25th October 1980(treated as non-forest land in hal record) out of total forest land of 723.312ha. (including sabik kism forest land of 238.093ha), located within the Mining Lease hold area over 1586.36 ha of Bolani Ore Mines (6.9sq.miles) of Steel Authority of India Ltd. in villages of Bolani, Balagoda, Limtur etc. and Karo Reserved Forests under Barbil Tahasil of Keonjhar District, Odisha during 2nd RML period(**FP/OR/MIN/20126/2016**)

Sir,

I am directed to say that above mentioned forest diversion proposal was recommended by the State Government to MoEF&CC, GoI vide letter No.15307/F&E dt. 19.8.2016 for consideration and approval under Section 2 of Forest Conservation Act, 1980. No communication has since been received from MoEF&CC, GoI in this context. However, it has been informed by the user agency that the during presentation of their proposal, the MoEF&CC have observed that 95% of the degraded forest land identified in Laxmiposi Reserved Forests in Champua Range of Keonjhar Forest Division for compensatory afforestation is comprised of Medium to Very Dense Forest as per GIS based Decision Support System(DSS) and therefore the MoEF&CC had suggested the user agency for identification of alternate suitable site for compensatory afforestation against the above forest diversion proposal. In view of such observation of MoEF&CC, the user agency had requested the DFO, Keonjhar for needful in the matter.

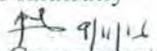
In view of such observations of the Ministry and as per request of the user agency , an extent of 248.626ha. of degraded forest land has again been identified in Chhatam RF(Hathidharsa Block) in Rajgangpur Range of Rourkela Forest Division. DFO, Rourkela Forest Division has prepared a site specific CA scheme in ANR mode of raising 200 plants per ha. at current wage rate of Rs. 200/- per manday including cost of maintenance of 10 years. The species selected to be planted under the revised scheme are Amla(*Embllica officinalis*), Neem (*Azadirachta indica*), Bahada(*Terminalia belerica*), Karanja(*Pongamia pinnata*), Jamu(*Sizium cumini*), Dhaura(*Anogeissus latifolia*), Sissoo(*Dalbergia Sissoo*), Harida(*Terminalia chebula*) etc. Addl. PCCF(Forest Diversion)& Nodal Officer, FC Act, O/O

PCCF, Odisha has accorded technical approval to the CA scheme with a revised financial outlay of Rs.2,00,40,800/-. Maps of identified degraded forest land for the purpose of CA in scale (1:12,000 and 1:6000) duly signed by the DFO, Rourkela are appended to the CA scheme. A copy of duly approved CA scheme is appended herewith. The user agency had earlier furnished an undertaking to pay cost of compensatory afforestation.

It is therefore requested that the revised CA scheme may be considered by the Ministry and in-principle approval for the diversion proposal may be conveyed to this department for further follow up action.

Encl: Revised CA scheme

Yours faithfully


Special Secretary to Government

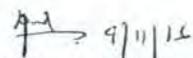
Memo No. 20769 /Dt. 18-11-16

Copy along with the copy of enclosures forwarded to the Additional Principal Chief Conservator of Forests (Central), Government of India, Ministry of Environment, Forests and Climate Change, A/3, Chandrasekharpur, Bhubaneswar for information and necessary action..


Special Secretary to Government

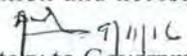
Memo No. 20770/F&E., Dated- 10-11-16

Copy forwarded to the Pr.C.C.F., Odisha /Principal Chief Conservator of Forests(WL) & CWLW, Odisha for information & necessary action.


Special Secretary to Government

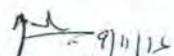
Memo No. 20771 /Dated. 10-11-16

Copy forwarded to the Regional Chief Conservator of Forests, Rourkela Circle/ Divisional Forest Officer, Keonjhar Forest Division/DFO, Rourkela Forest Division for information and necessary action.


Special Secretary to Government

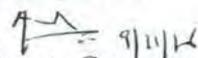
Memo No. 20772 /Dated. 10-11-16

Copy forwarded to the Steel & Mines Department/ Collector, Keonjhar for information and necessary action.


Special Secretary to Government

Memo No. 20773 /Dated. 10-11-16

Copy forwarded to the Sri Paresh Chandra Naik, General Manager(Mines), Steel Authority of India Ltd, RMD, Bolani, Dist. Keonjhar, Odisha, Pin 758037 for information and necessary action.


Special Secretary to Government

Annexure-III

Annexure-IV



e-PayOrder Details

e-PayOrder Number CR17999851
 Debit Status Success

Date 22-Dec-2017

PAY ORISSA CAMPA

RUPEES (In words) One Crore Ninety Lakhs Forty Thousand Eight Hundred only **Rs1,90,40,800.00**

ACCOUNT NO 00000011180766769

STATE BANK OF INDIA

BOLANI
DEBASHISH BEHERA
Maker
RAJEEV KUMAR
Authorizer 1
RABINDRA NATH OJHA
Authorizer 2

"CR17999851"

Counterfoil Description SAIL RMD BOLANI
 Transaction Type RTGS Funds transfer

Debit Account Details

Account No.	Branch	Amount
00000011180766769	BOLANI	1,90,40,800.00

Credit Account Details

Beneficiary Name/Account No.	Bank/Branch/IFSCCode	Amount	Credit Status	UTR No.
ORISSA CAMPA/150825820126526	CORPORATION BANK/FCS BANGALORE/CORP0000633	1,90,40,800.00	Success	SBINR12017122200034911

Annexure-V



State Bank of India

TO WHOMSOEVER IT MAY CONCERN

It is to certify that , a sum of Rs.173807890.00 (Rupees seventeen crore thirty eight lakhs seven thousand eight hundred ninety only) has been transferred from account no-11180766769 of SAIL RMD BOLANI ORES MINES TO A/C NO. 344902010105428 of Union Bank of India , Sunder Nagar , New Delhi of CAMPA ODISHA NEW DELHI ON 13/07/2016 through RTGS UTR no. SBINR52016071332114863.

कृते भारतीय स्टेट बैंक
For STATE BANK OF INDIA
मुख्य प्रबन्धक/BRANCH MANAGER
बोलानी शाखा/ BOLANI BRANCH
Branch Manager
S.B.I Bolani

Application for NEFT Remittance

Counterfoil

State Bank Of India

Branch - Bolani

Date : 13.07.2016

Received

From : SAIL-RMD-Bolani
Ores Mines

By Cheque /

Transfer for

NEFT

Bank: Union Bank Of India,
Sunadar Nagar, New delhi

Favouring : Compensatory
Afforestation Fund

A/c No. 344902010105428

Amount Rs. 173807890.00

Bank's

Charges Rs. 57.50

Total Rs. 173807947.50

(Rupees Seventeen Crore
Thirty Eight Lakh Seven
Thousand Eight Hundred
Ninety only)

UTR No. SBINR520160

71332114863

Stamp: State Bank of India, Bolani Branch, 13 JUL 2016
Signature: [Handwritten Signature]

Annexure-VI



STEEL AUTHORITY OF INDIA LIMITED
STEEL AUTHORITY OF INDIA LIMITED
राजस्थान विभाग
RAW MATERIALS DIVISION

WTD/92-958/

29th May, 2010

The Asst. General Manager
Corporation Bank
CGO Complex
Lodi Road
New Delhi

SUB: PAYMENT OF NPV IN RESPECT OF FOREST LAND OF ML 6.9 SQ. MILES IN VILLAGE BOLANI IRON ORE MINE OF STEEL AUTHORITY OF INDIA LIMITED, IN KEONJHAR DIST. OF ORISSA.

Sir,

Please find enclosed herewith, a Cheque, No. 597662 dtd. 29th May, 2010 drawn in favour of CAMPA A/c. 1585 for an amount of Rs. 29,14,78,120/- (Rupees twenty nine crore fourteen lac sevbnety eight thousand one hundred twenty only) towards payment of NET PRESENT VALUE (NPV) for forest land of 465.62 ha. in 6.90 Sq. Miles lease of Bolani Iron Ore Mine, village Bolani, distt. Keonjhar, Orissa vide letter No. 3767, dtd. 04.05.2010 of DFO, Keonjhar Division, Govt. of Orissa, Ministry of Forest and Environment Department.

You are requested to acknowledge the receipt of the cheque.

Thanking you,

Yours faithfully,



R. Dabaki
29/5/2010
(R DABAKI)
Asst. General Manager (I.)

Encl:- A/a.



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
राँ मैट्रीयलस डिविजन
RAW MATERIALS DIVISION

RMD/92-957/1344

03rd July, 2010

The Assit. General Manager
Corporation Bank
CGO Complex
Lodi Road
New Delhi-110003

**SUB: PAYMENT OF BALANCE NPV IN RESPECT OF FOREST LAND OF
ML-6.90 SQ. MILES OF STEEL AUTHORITY OF INDIA LIMITED,
IN VILLAGE BOLANI, DIST. KENDUJHAR OF ORISSA.**

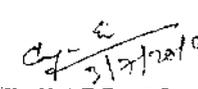
Sir,

Please find enclosed herewith, a Cheque, No. 597673 dtd. 03rd July, 2010 drawn in favour of CAMPA A/c. 1585 for an amount of Rs. 7,80,04,080/- (Rupees seven crore, eighty lac, four thousand, and eighty only) towards payment of balance NET PRESENT VALUE (NPV) for the entire forest land 506.14 ha. included in the Mining Lease-6.90 Sq. Miles, Bolani Iron Ore Mines, village Bolani, distt. Keonjhar, Orissa vide letter No. 175/Mining, dtd. 05.06.2010 of Divisional Forest Officer, Kendujhar Division, Orissa.

You are requested to acknowledge the receipt of the cheque.

Thanking you,

Yours faithfully,


(R DARBARI)

Asst. General Manager (L)

Encl:- A/a.

Annexure-VII-A

Scheme

OF

MITIGATIVE MEASURES TO MINIMIZE SOIL EROSION AND CHOKING OF STREAM

in compliance to

Condition no – VII(a) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for

Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
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II	PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED ML AREA	4
III	OBJECTIVE & WORK SCHEDULE ,	5
IV	PROVISION OF FUNDS	7
	<u>Annexures</u>	
	Annexure-I : Estimate For Construction Of 200 Meter Masonary Drain	9
	Annexure-II : Estimate For Settling Pond	10
	Annexure-III : Estimate For Loose Boulder Check Dams (LBCD)	11
	Annexure-IV : Estimate For Desilting Of Nallahs	12
	Annexure-V : Estimate For Construction Of RCC Check Dam	13

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, Govt has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha .

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No

OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha .+ 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (vii):

"Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account .

- (a) Mitigative measures to minimize soil erosion and choking of stream shall be implemented within a period of three year with effect from the issue of Stage-II clearance in accordance with the approved Plan in consultation with the State Forest Department ..."

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO Keonjhar, preparation of the scheme of mitigating measures for minimize soil erosion and choking of streams has been undertaken in consultation with the State Forest Department, for implementation at the project cost .

CHAPTER- II

PHYSIOGRAPHY ,GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is its availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore

group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade. There is no excavation of ore at present inside the 6.90 sq miles Mining Lease. Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant, Loading plant and railway siding, Tailing pond, OB and fines dumps, Water intake facility, township along with Manganese Quarries are located in 6.9 sq. miles mining lease.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest along with non-forest land recorded as forest is placed under the sub-group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia bellerica, Syzygium cumini, Mangifera indica, Schleicheria oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ugeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres sora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium caricum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub-group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowsable and xerophytic in habit.

CHAPTER- III

OBJECTIVE & WORK SCHEDULE

FACTORS FOR SOIL EROSION AND CHOKING OF STREAMS

The mining and allied activities viz. stockpiles and iron ore fines dumps are the major factors of impacting any drainage system in the mining areas. The forms of erosion observed in this region include mainly rill and gully erosion. The storm water runoffs from the hills, mine faces and Fines dump slope areas carry substantial amounts of solids in the lower order streamlets and choke the higher order streams. These lower order streamlets and gullies have high

erosive capacity due to gradient and pick up rock fragments and transport them due to high velocity of the stream and deposit in the connecting high order streams due to velocity drop. Streams can also erode by undercutting their banks resulting in mass-wasting processes like slumps or slides. When the undercut material falls into the stream, the fragments are transported and deposited in the stream bed . The other mode of sediment transportation is very nominal.

OBJECTIVE OF THE SCHEME:

The objectives of the proposed scheme is to minimize the carrying of silts which choke the streams by flow of above storm water runoffs from the hills, mine faces and fines dump slope areas to downstream areas joining Karo River , as follows :

- (a) Proper Management of Iron ore fines stockpiles so as to prevent wash off for siltation in the streams. Hence , to prevent generation of fines material at source , retaining walls and garland drains will be erected around the fines dumps, as per separate scheme prepared in compliance to condition stipulated in vii(c).
- (b) Prevention of flow of fines/silts from the mining/fines dump areas to the cultivable lands, natural streams and inhabitations .
- (c) Prevention of obstruction of Natural water sources by regular de-silting of seasonal and perennial streams inside the ML .

DETAILS OF PROPOSED WORK SCHEDULE

The following activities are proposed to be taken up to mitigate soil erosion and choking of streams :

1. Construction of total of 200 meters of masonry drains of approx. 2.0 width and 2m height from the periphery of fines dumps to discharge the washoff in to settling tanks
2. Construction of 5 (five) nos of settling tanks for settling of fines and discharge of storm waters to stream/streamlets
3. Construction of Loose Boulder Check Dams across seasonal streamlets to reduce the flow velocity of run off and to settle the silts / sediments flown from the mining areas including overburden dumps, stockpiles, unmetalled murrum roads and areas cleared of vegetation. 70 nos of such dry boulder check-dams will be constructed across streamlets arising from upslopes of adjoining areas
4. Construction of 4 nos of RCC checkdykes across the perennial streams and outlets from tailing pond
5. Annual de-silting / silt removal will be undertaken in the streamlets up to 100m stretch, as per appropriate site conditions .

GPS readings of above proposed activities are shown on the entire land use map of the lease.

CHAPTER- IV

PROVISION OF FUNDS

TOTAL COST OF THE SCHEME FOR MITIGATIVE MEASURES TO MINIMIZE SOIL EROSION AND CHOKING OF STREAM

Sl	Item of Work	Cost (Rs)
1	Construction of total of 200 meters of masonry drains of approx. 2.0 width and 2m height from the periphery of all fines dumps to discharge the washoff in to settling tanks (Estimate at Annexure-I).	RS 19,83,960.00
2	Construction of 5 (five) nos of settling tanks for settling of fines and discharge of storm waters to stream/streamlets (Estimate at Annexure-II)	Rs 28,69,244.00
3	Construction of 70 nos of Loose Boulder Check DamsLBCD structure of dimension 10' x 10' x 5' across seasonal streamlets to reduce the flow velocity of run off and to settle the silts (Estimate at Annexure-III)	Rs 4,89,020.00
4	Construction of 2nos of RCC checkdykes across the perennial streams and outlets from tailing pond (Estimate at Annexure-V), Dimension = 25m x 1.2m X .3m	Rs 38,32,214.00
5	Annual de-silting / silt removal will be undertaken in the streamlets up to 100m stretch (Estimate at AnnexureIV)	Rs 22,76,100.00
	Total	Rs 11,450,538.00
	Escalation 20%	Rs 22,90,107.60
	Grand Total	1,37,40,645.60
One Crore thirty seven lakhs forty thousand six hundred forty five only*		

The total cost of the implementation of mitigative measures will be Rs. 1,37,40,645.60 (One Crore thirty seven lakhs forty thousand six hundred forty five only) as detailed above which will be borne by user agency at their Project Cost .The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency .

Place :Bolani

Date :


महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर.ए.डी. बोलानी, ओडिसा खदान
SAIL-BMD, Bolani Open Mines
बोलानी-758 037, क्यंजर, ओडिसा
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,
Divisional Forest Officer
Office Seal
Keonjhar Division

Annexure-I

ESTIMATE FOR CONSTRUCTION OF 200 METER MASONARY DRAIN

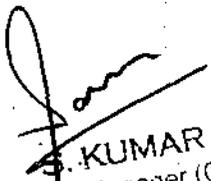
Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate (Rs)	Amount(Rs)
1	Earth work excavation in foundation								
	Drain Foundation	cum	1	200.00	2.00	3.00	1200.00	130.80	156960.00
						TOTAL	1200.00		
2	Providing and laying P.C.C (1:4:8)								
	Drain Foundation	cum	1	200.00	3.00	0.10	60.00	3500.00	210000.00
3	RRM MASONARY GRANITE STONE								
	Wall	cum	2	200.00	0.50	2.00	400.00	3100.00	1240000.00
4	20 mm thick Cement Punning								
	Wall	Sqm	4	200.00		2.00	1600.00		
	Wall Top	Sqm	2	200.00		0.50	200.00		
						Total	1800.00	140.00	252000.00
5	40 mm Thick Flooring								
	Drain	sqm	1	200.00	2.00		400.00	200.00	80000.00
6	PCC 1:2:4								
	Wall Top	cum	2	200.00	0.50	0.05	10.00	4500.00	45000.00
TOTAL COST									19,83,960.00
Per meter cost									9,919.80


S. KUMAR
Deputy Manager (Civil)
SAIL-RMD-BOM

Annexure-II

ESTIMATE FOR SETTLING POND

Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate (Rs)	Amount(Rs)
1	Earth work excavation in foundation								
	Drain Foundation	cum	5	23.00	13.00	3.00	4485.00	130.80	586638.00
2	Providing and laying P.C.C (1:4:8)								
	Drain Foundation	cum	5	21.00	11.00	0.10	115.50	3500.00	404250.00
3	RRM MASONARY GRANITE STONE								
	Wall	cum	5	64.00	0.40	3.00	384.00		
		cum	10	10.00	0.25	3.00	75.00		
4	20 mm thick Cement Punning								
	Wall	Sqm	10	64.00		3.00	1920.00		
		Sqm	5	64.00		0.40	128.00		
		Sqm	20	10.00		3.00	600.00		
						Total	2648.00	140.00	370720.00
5	Neat Cement Punning								
	Drain Qty Same as Sl.No.4)	sqm					2648.00	32.00	84736.00
								Total	2869244.00
CostPer Tank									5,73,848.80


S. KUMAR
 Deputy Manager (Civil)
 SAIL-RMD-BOM

Annexure-III

ESTIMATE FOR LOOSE BOULDER CHECK DAMS (LBCD)

Sl	Item	Quantity in cum	Rate Cost / per cum) in Rs	Cost per LBCD (Rs)
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms.	9.9	156.40	1548.36
3	Total required Labour	9.9	350.25	3467.47
	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83 = Rs 6986.00
	Total Cost of erecting 70nos of LBCD estimated for the site			Rs 6986.00 x 70 = Rs 489020.00

(As per Revised cost norm No. 1044/10F (GAMPA) 54/2017 dated 13 th. October, 2017 of Principal CCF &HoFF, Govt of Odisha)


S. KUMAR
Deputy Manager (Civil)
S. K. S. S. S.

Annexure-IV

ESTIMATE FOR DESILTING OF NALLAHS									
Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate(Rs)	Amount (Rs)
1	Earth work excavation in foundation								
		cum	1	100.00	10.00	1.50	1500.00	130.80	196200.00
2	Transportation								
	Desilted material	per trip					375.00	1500.00	562500.00
Total									758700.00
Cost of De-silting for 3 years									22,76,100.00


S. KUMAR
Deputy Manager (Civil)
Sri Lanka Railways Corporation

Annexure-V

ESTIMATE FOR CONSTRUCTION OF RCC CHECK DAM (25m x 1.2m x 5.3 m)

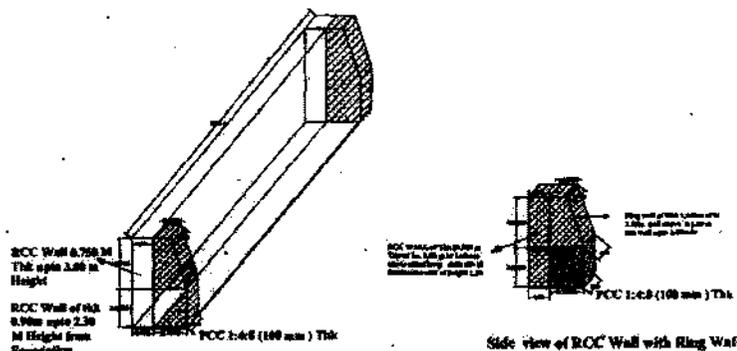
SL.	DESCRIPTION OF ITEM	UNIT	QTY.	RATE	AMOUNT	DSRNo
1	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	cum	111.00	129.35	14357.85	2.6.1
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	12.50	3593.30	44916.25	4.1.8
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	64.00	4703.90	301049.60	5.1.3
4	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement: 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	60.00	5344.80	320688.00	5.2.3
5	Centering and shuttering including strutting, propping etc. and removal of form for :					
	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	143.00	166.90	23866.70	5.9.1
	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	186.00	285.15	53037.90	5.9.2
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.	Kg	16125.00	56.75	915093.75	5.22.1
7	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	Sqm	300.00	336.50	100950.00	16.11
8	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)	Sqm	175.00	130.20	22785.00	13.2.2
9	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	Sqm	120.00	280.05	33606.00	11.3.1
10	Random rubble masonry with local laterite boulder in foundation and plinth including levelling up with cement concrete 1:6:12 (1 Cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with : Cement mortar 1:6 (1 Cement : 6 coarse sand)	cum	42.00	1982.30	83256.60	LS
11	Dismantling/cutting the existing Chain link Fencing of about 4.0m to 5.0 m along with barbed wire fencing for making of Passage for material transportation etc to the construction site as per direction of EIC	L.S.	1.00	1000.00	1000.00	LS
12	Refixing the the dismantled fencing of about 4.0m to 5.0 m by Welding the fencing, repairing and making good as per direction of EIC	L.S.	1.00	1500.00	1500.00	LS
	TOTAL				19,16,107.65 (say- Rs 19,16,107	

Cost for two (2) such RCC check dam = Rs 19,16,107.65 x 2 = Rs 38,32,214.00
(Rupees Thirty Eight lakhs Thity two thousand and two hundred fourteen only)

Drawing :

(Above foundation = 3.0 m, Foundation = 2.3m, Drawing enclosed)

S. KUMAR
Deputy Manager (Civil)
SAIL-PONDICHERRY



Annexure-VII-B

Scheme

OF

PLANTING OF ADEQUATE DROUGHT HARDY PLANT SPECIES AND SOWING OF SEEDS

in compliance to

**Condition no – VII(b) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi**

for

Diversion of 124.313 Hects of Sabik Kisam Forest land

**within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District**



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	
II	PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED ML AREA	
III	OBJECTIVE& WORK SCHEDULE ,	
IV	DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION	
V	COST STRUCTURE OF PLANTATION& SMC WORKS, PROVISION OF FUNDSAND UTILIZATION	
VI	PROVISION OF FUNDS	
VII		
VIII		
IX		

CHAPTER-I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condion-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, Gol has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha .

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No

FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest sand Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabik kisam forest land out of total 723.312 ha forest land (485.219 ha .+ 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following in Condition no- (vii) :

“Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account

(b) plantation of drought hardy plant species and sowing of seeds within mining lease to arrest soil erosion” .

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO Keonjhar, preparation of the scheme of plantation of drought hardy plant species and sowing of seeds within mining lease to arrest soil erosion with a maintenance period of ten years has been undertaken in consultation with the State Forest Department,for implementation at the project cost

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED ML AREA

PHYSIOGRAPHY AND GEOLOGICAL FORMATION

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 2205'12"N to 2207'42"N and longitude 850 19'04" E to 850 23'08"E of Survey of India Topo sheet No. 73 F/8, consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e.haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid& Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual

deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest along with non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes *Terminalia alata*, *Lagerstroemia perviflora*, *Anogeissus latifolia*, *Terminalia bellerica*, *Syzygium cumini*, *Mangifera indica*, *Schleichera oleosa*, *Adina cordifolia*, *Pterocarpus marsupium*, *Bombax ceiba*, *Bridelia retusa*, *Madhuca indica*. The middle story is represented by *Syzygium cumini*, *Ougeinia ougenensis*, *Careya arborea*, *Trema orientalis*, *Emblia officinalis*, *Cassia fistula* etc. The shrubs and undergrowth are characterized by *Indigofera pulchella*, *Ardisia solanacea*, *Flemingia strobilifera*, *Helicteres isora* and *Clerodendron viscosum* etc. The prevailing climbers include *Bauhinia vahlii*, *Combretum decandrum* and *Beutia parviflora*. The grasses over the forest floor include *Chrysopogon aciculatus*, *Imperata cylindrica*, *Dicanthium caricum*, *Cynodon dactylon* etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowseable and xerophytic in habit. The prevailing forest growth in the Non-Forest land recorded as forest as on 25.10.1980 over 238.093 ha falls under this category.

CHAPTER- III

OBJECTIVE & WORK SCHEDULE

OBJECTIVE OF THE SCHEME

The objective of the scheme is to undertake plantation of Draught Hardy species and sowing of seeds on the identified patches of degraded forest land over 43.0 hectares @ 600 saplings per hectare and 50.0 hectares respectively inside the lease to arrest soil erosion

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

The proposed areas has been demarcated through GPS survey and GPS survey data showing latitude and longitude of each point and their field notes is also enclosed in the map.

AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

The user agency ,i.e Bolani Ore Mines of M/s SAIL shall provide funds for implementation of the scheme. The cost of the scheme will include fund to be deposited in the Ad-hoc CAMPA Account , on technical approval of the scheme and receipt of demand note from DFO Keonjhar .

AGENCY RESPONSIBLE FOR EXECUTION OF THE SCHEME

The Forest & Environment Department i.e. Divisional Forest Officer, Keonjhar Division, and the Forest Range Officer, Barbil Range office will execute the scheme on allotment of fund by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar .

DETAILS OF PROPOSED MONITORING MECHANISM

The plantation work will be taken up in the identified site by the Range Officer, Barbil Range of Keonjhar Division, Keonjhar . He will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests, (Affn.) and Divisional Forest Officer, Keonjhar Division . Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Barbil Range and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Rourkela Circle and Chief Conservator of Forests (PP&A), O/o the Pr. Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.

CHAPTER- IV

DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be undertaken as per the plan .The SMC works will be undertaken over the different patches shown in the map and planting plan. This plan will be followed when actual planting is carried out.

Native Species to be planted:

1. *Dalbergiasissoo*(Sissoo)
2. *Azadirachtaindica*(Neem)
3. *Gmelinaarborea* (Gambhari)
4. *Terminaliabelerica*(Bahada)
5. *Terminaliachebula*(Harida)

6. *Pongamiapinnata* (Karanja)
7. *Emblicaofficinalis* (Ainala)
8. *Madhucaindica*(Mahul)
9. *Mangiferaindica* (Amba)
10. *Artocarpusheterophylla* (Panash)

11. In the peripheral areas of the site (susceptible to grazing) may be planted with non-browsable species like *Tectonagrandis* (teak), *Acasia*, *Alstoniascholaris* Chhatian), *Simarubaglauca* , *Anonnasquamosa*(Sitaphal), etc. . Planting operation is to be done as per Odisha Forest Plantation Manual-1977 & the guideline & norms of forest & Environment Department.

12. The non native species to be included are *Acacia mangium* , *Simaroubaglauca* on some selected sites only

13. Native grass plants are useful for erosion control and have the added benefit of fitting readily into the landscape. They will easily transplant and take in conditions that mimic their natural habitat. Native grasses also need less maintenance as they are adapted to the region in which they occur and receive most of their needs in the existing site.

B. PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @660 seedlings per ha including seedlings for 10% causality replacement.

B(II)-SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING

The planting area will be surveyed and demarcated with GPS coordinates of respective pillar no as per the GPS map along with the field notes before undertaking plantation .

B(III) SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS.

The clearing of the site involving removal of invasive weeds, bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 30 x 30 x 30 cm. will be dug @600 per ha. in the available gaps preferably 2 months before or at least a month before planting of seedlings.

B(IV) SOWING OF SEEDS

Stylosanthes species have been utilized for land reclamation, soil stabilization and soil regeneration work because of their drought resistance, ability to restore soil fertility, improve soil physical properties and provide permanent vegetation cover. *Stylosanthes hamate* is a genus of flowering plants in the legume family, Fabaceae and contains numerous highly important pasture and forage species. . Seeds are hard and long lived leading to high soil seed banks and

rapid recovery following fire or heavy grazing. Seed survives passage through the gut of grazing animals and is dispersed widely in this manner allowing for rapid dispersal. Many species are adapted to hot, dry climates and are drought resistant. They are capable of nitrogen fixation and are capable of improving soil fertility in addition to providing high protein stock feed. The genus is also noted for its ability to extract phosphorus from soils where it is not available to other species. Sowing of seeds of *Stylosanthes* sp. will be undertaken in open area (shown in map) and nallabundigand wherever required to the extent over 100 hectares degraded forest land within applied ML area. Seeds (will be sown in early spring when the area is moderately damp until germination or in the early monsoon over the degraded barren slopes.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION

D(1)-CASUALTY REPLACEMENT

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over.

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the stumps is complete or after the seedlings have started throwing up new buds.

D(3)-MANURING AND INSECTICIDE APPLICATION

On degraded sites urban compost or farmyard manure, wherever available, will be added to the soil while refilling the pits. As regards artificial fertilizers, the minerals required and dosage @ 50 grams of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-PROTECTION AGAINST FIRE AND GRAZING

Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved cost norm for protecting the plantation from grazing with involvement of VSS of nearby villages.

D(5)-SOIL MOISTURE CONSERVATION MEASURES

Soil and moisture conservation activities are to be taken up and dovetailed to plantation/afforestation activities in order to retain the soil and conserve maximum precipitation on forest floor to improve water availability in Forests. It is to be practised as a core forestry activity independent of other forestry interventions. In order to achieve the objective and implement the programme efficiently, a wellplanned strategy is indispensable.

The objective of the Soil and Moisture Conservation works proposed here is :

- I. To counteract soil erosion by reducing water flow velocity
- II. To achieve soil moisture/water balance and to increase groundwater recharge to prevent drying out due to water shortage in drought period .
- III. To provide sufficient storage by erecting runoff Bunds along field boundaries without reference to contour, as the area is a low rainfall area .

The strategy adopted for Soil and Moisture conservation measures in the scheme is enumerated below :

- (i) Loose Boulder Check dams (LBCD)
- (ii) Staggered Trenches and percolation pits

The detailed cost estimate of SMC proposals enumerated here is as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF & HoFF, Govt of Odisha (Copy Enclosed in annexure) .

- i. **Loose Boulder Check dams (LBCD)** :This structure is to be created across the drainage line for retention of runoff and reduction of velocity. Such structures should preferably have top width of one meter with upstream slope of 1:1 and downstream slope of 1:5 . The dimensions of each structure are dependent on several factors such as gradient, catchment size etc. . Since, the cost norm for such structures are based on volume, implementing divisions will have desired flexibility to design such structures with appropriate dimensions. On either side of the LBCD, trenches of prescribed dimension should be created to allow the vertically running water to spread on either side at the obstruction point which will reduce the velocity effectively. The length of such trenches should be at least twice the length of LBCD on either side. They may be straight line or a curve with the curve towards uphill side. Such structures will also capture more rainwater and enhance infiltration. As per the condition of identified site, Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' as drainage line treatment to the tune of 40 nos. over the entire plantation site identified under this scheme. The drawings and specifications are attached in Annexure -

- (ii) **Staggered Contour Trenches (SCT)**:

The prime objective of any soil and moisture conservation work is to retain runoff water flowing down the slope. Enhancement of infiltration is the ultimate

objective of any SMC scheme which facilitates recharging of ground aquifer. Restriction of sub-surface flow makes water available to the vegetation within root zone. Treatment of forest floor and drainage line with suitable interventions helps in retention of rain water and depending on the nature of soil profiles allows variable quantities of water to infiltrate. The staggered trenches are primarily aimed to break the runoff and not to let the fertile soil particles lost by water.

As the general slope of the identified area is within 30 degree, 300 no of staggered trenches will be created per hectare of land. Staggered trenches of dimension 2.5 x 0.5 x 0.5 mtr will be dug along the contour lines parallelly to retain the flowing water. It will help in conserving rain waters of that region and facilitate its percolation. Adequate care should be taken during alignment of such trenches, so that gullies are not formed by the water flowing downhill from the edges of the trench. The analysis of cost analysis are attached in Annexure - I

CHAPTER- V

COST STRUCTURE OF PLANTATION & SMC WORKS

A. COST STRUCTURE OF PLANTATION : ESTIMATE OF COST FOR 1.00 HA. UNDER ANR PLANTATION MODEL COST NORM FOR ANR PLANTATION @ 600 PLANTS PER HECTARE, WAGE RATE Rs. 213.50 /- PER DAY

Sl. No.	Item of work	Preferable period of execution	Person days	Labour (Rs.)	Material (Rs.)	Total
0th year (Advance work) Pre-planting operation						
1	Survey, Demarcation & pillar posting, GPS Reading with mapping	Nov-Dec	2	427	0	427
2	Site preparation.	Nov-Dec	2	427	0	427
3	Silvicultural Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots etc	Jan-Feb	5	1067.5	0	1067.5
4	Nursery cost (6 months old seedling) part @Rs.9.45/- seedling (Rs.6.67 in 0 th year + Rs.2.78 in 1 st year) for 660 seedlings (600+60)	Jan-March	16.5	3522.75	1102	4624.75
5	Contingency and Unforeseen Expenditures		0	0	198	198
	Sub-Total		25.5	5444.25	1300	6744.25
1ST YEAR OPERATION						
1	Nursery cost (6 months old seedling) balance @Rs.2.78 for 660 seedling	Apr-Jul	8	1708	235	1943
2	Pitting 30 cm cube size	Feb/Mar	18	3843	0	3843
3	Carriage and planting including casualty replacement	Jul/Aug	15	3202.5	0	3202.5
4	Complete weeding, Soil working, Manuring	Aug/Sep	18	3843	0	3843
5	Cost of Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 and Granular Insecticide 5 gms/ plant @Rs.80/- per Kg= Rs.240.00	Aug/Sep	0	0	2640	2640
6	Cost of Chemical fertilizer (a) Urea 70 gms/ plant in two subsequent doses @Rs.6/- per Kg= Rs.252.00 (b)NPK 50 gms/ plant @Rs.24/- per kg= Rs.720.00 as basal dose.		0	0	972	972
7	Silvicultural Operation involving clearance of weeds, cutting of climbers, singling of shoots etc.	Sep/ Oct	15	3202.5	0	3202.5
8	Soil Conservation Measures (Staggered trenches of dimension 2m X 0.5m X 0.5m @60 nos per ha) or its equivalent	Sep/ Oct	20	4270	0	4270
9	Fireline Tracing and Inspection path	Feb/ Mar	3	640.5	0	640.5
10	Watch & ward	Aug-Mar	7	1494.5	0	1494.5
11	Contingency and Unforeseen Expenditures		0	0	353	353
	Sub-Total		104	22204	4200	26404

2 ND YEAR OPERATION						
1	Casualty Replacement including cost of seedling, carriage and planting	Jul/ Aug	3	640.5	567	1207.5
2	Complete weeding and cultural operations	Sep/ Oct	6	1281	0	1281
3	Soil working and manuring	Sep/ Oct	6	1281	0	1281
4	Cost of Fertilizer and insecticide (a) Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 (b) Granular Insecticides 5 gms/ plant for 60 plants 300 gms @Rs.80/- per Kg= Rs.24.00	Sep/ Oct	0	0	2424	2424
5	Soil Conservation Measures (Renovation of staggered trenches etc.)	Sep/ Oct	8	1708	0	1708
6	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
7	Watch & ward (whole year)	Apr/ Mar	7	1494.5	0	1494.5
8	Contingency and Unforeseen Expenditures		0	0	193	193
	Sub-Total		31	6618.5	3184	9802.5
3 RD YEAR OPERATION						
1	Complete weeding and cultural operations	Aug/ Sep	3	640.5	0	640.5
2	Soil working	Aug/ Sep	3	640.5	0	640.5
3	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
4	Watch & ward (whole year)	Apr-Mar	7	1494.5	0	1494.5
	Sub-Total		14	2989	0	2989
4 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
5 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
6 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
7 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
8 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
9 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5

2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
10TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
	Grand Total		195.5	41739.25	8684	50423.25

ABSTRACT

Year	Person days	Labour	Material (Rs)	Total (Rs)
0th Year	25.5	5444.25	1300	6744.25
1st Year	104	22204	4200	26404
2nd Year	31	6618.5	3184	9802.5
3rd Year	14	2989	0	2989
4th Year	3	640.5	0	640.5
5th Year	3	640.5	0	640.5
6th Year	3	640.5	0	640.5
7th Year	3	640.5	0	640.5
8th Year	3	640.5	0	640.5
9th Year	3	640.5	0	640.5
10th Year	3	640.5	0	640.5
Total	195.5	41739.25	8684	50423.25
Total Cost Norm per ha.				50423.25
Total Cost of plantation for 43.0 ha				21,68,199.75

ADDITIONAL COST PROPOSED

1	SMC measures- LBCD structure of dimension 10' x 10' x 5' @Rs. 6985.83/- (cost of Transportation within a lead of 5.0 km i.e. Rs. 1548.36+ cost of construction Rs.5437.47) per LBCD structure for 40 nos LBCD structures.	2,79,433.20
2	Staggered trenches (2.5mt x 0.5mt x 0.5 mt) @60MD per ha over 43ha @ Rs. 12810 per ha.	5,50,830.00
3	Cost of sowing seeds over 50.0 ha degraded forest land and other areas	5,20,250.00
4	Additional incentive (3% of cumulative expenditure) for VSS/Fr./FG proposed for more than 80% survival and very good growth during 4 th year of maintenance as per recommendation of DFO and RCCF. @Rs. 1379/- per ha for 43 ha.	59,297.00
5	Additional EPA expenses if implemented through VSS at rate Rs.1200/- in 0 th Year, Rs.2400/- in 1 st Year, Rs.1800/- in 2 nd Year, Rs.600/- in 3 rd Year, Rs.600/- in 4 th Year, Rs.600/- in 5 th Year, Rs.600/- in 6 th year, Rs.600/- in 7 th year, Rs.600/- in 8 th year, Rs.600/- in 9 th year, Rs.600/- in 10 th year @ Rs. 10200/- per ha for 43 ha	4,38,600.00
	Total	18,48,410.20

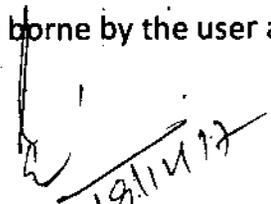
CHAPTER-VI

PROVISION OF FUNDS

TOTAL COST OF SCHEME OF PLANTING OF ADEQUATE DROUGHT HARDY PLANT SPECIES AND SOWING OF SEEDS

	Cost breakups	Value in Rs
1.	Plantation over 43.0ha @ Rs.50,423.25/- per ha.	21,68,199.75
2	Total additional cost	18,48,410.20
	Total	40,16,609.95
3	Add 20% escalation	8,03,321.99
	Total	48,19,931.94
		48,19,932.00/- (say)
(Rupees Fortyeight lakhs nineteen thousand nine hundred and thirty two only)		

The total cost of the implementation of above scheme will be Rs.48,19,932.00/- (Rupees Forty eight lakhs nineteen thousand nine hundred and thirty two Only) as detailed above which will be borne by user agency at their Project Cost .The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency


महाप्रबंधक (खनन) (General Manager (Mines))
सेल - ~~General Manager~~ ~~खदान~~
Bolan Office, Bolani, Keonjhar, Odisha
बोलानी-758 037, क्योजर, ओडिशा
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,

Office Seal
Divisional Forest Officer
Keonjhar Division

Date :

ANNEXURE- I
COST ESTIMATE OF SOWING SEEDS ANDSMC PROPOSALS

Estimate of Loose Boulder Structure (LBCD), of size 10' x 10' x 5' (as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF &HoFF, Govt of Odisha .

(I) **Loose Boulder Check dams (LBCD)**

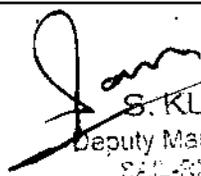
Sl	Item	Quantity in cum	Rate Cost / per cum) in Rs	Cost per LBCD (Rs)
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms.	9.9	156.40	1548.36
3	Total required Labour .	9.9	350.25	3467.47
	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83
	Total Cost of erecting 40nos of LBCD estimated for the site			2,79,433.20

(II) **Staggered Contour Trench (SCT)**

Sl	Item	Mandays .	Rate per manday in Rs	Cost of ST perha (Rs)
1	Staggered contour trench of size 2.5m x 0.5m x 0.5m) at the rate of 300 ST / ha (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum	60	213.50	12810.00
	Total Cost of SCT for 100ha estimated for the site			12810.00 x 100 = 12,81,000.00

(III) **Cost of sowing of seeds**

Sl	Item	Mandays /quantity required per ha	Rate per manday/Rate per kg in Rs	Cost of ST perha (Rs)
1	Collection of seeds of local grasses	20	213.50	4270.00
2	Purchase of stylosyntheseshamata	25	200/- /kg	4000.00
3	MandayCost of broadcasting and maintenance	10	213.50	2135.00
4	Total cost of sowing of seeds per hectare			10405.00
5	Total Cost of sowing of seeds over 50.0 hectare			10405 x 50 = 5,20,250.00


S. KUMAR
Deputy Manager (Civil)
SAIL-RMD-SOM

Annexure-VII-C

Scheme
OF
CONSTRUCTION OF CHECK DAMS, RETENTION WALL/TOE WALLS
TO ARREST SLIDING DOWN OF THE EXCAVATED MATERIALS
ALONG THE CONTOUR

in compliance to

Condition no – VII(c) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for

Diversion of 124.313 Hects of Sabik Kism Forest land
within 6.90 sq Miles ML of
Bolani Mn &Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	
II	PHYSIOGRAPHY, GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA	
III	OBJECTIVE & WORK SCHEDULE	
IV	PROVISION OF FUNDS FOR IMPLEMENTATION OF THE SCHEME	
	Annexure - I : Estimates	

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586:36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GOI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha .

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal

for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha + 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC, GOI has stipulated the following condition in Condition novii :

"Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account .

- (c) .."Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved scheme "

In compliance to the above condition and memo no 6499/Mining Dt.20.10.2017 of DFO Keonjhar, preparation of a scheme for Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour. has been undertaken in consultation with the State Forest Department, for implementation at the project cost.

CHAPTER- II

PHYSIOGRAPHY ,GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED-AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease. Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant, Loading plant and railway siding, Tailing pond, OB and fines dumps, Water intake facility, township along with Manganese Quarries are located in 6.9 sq. miles mining lease.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest along with non-forest land recorded as forest is placed under the sub-group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia bellerica, Syzygium cumini, Mangifera indica, Schleichera oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres sora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium caricum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub-group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowsable and xerophytic in habit.

CHAPTER- III

OBJECTIVE & WORK SCHEDULE

As there is no excavation of ore at present inside the 6.90 sq miles Mining Lease, there is no active heap of excavated material. Nonetheless, loading plant stockpiles, old OB and fines dumps exist inside 6.9 sq. miles mining lease. There is one old OB dump inside this ML area and the same has been stabilized by plantation, terracing, grassing and retaining wall of 600 meters has been constructed around this OB dump.

In this scheme, considering the topography and contours of the lease area, emphasis has been given to arrest sliding down of stockpiled materials along the contour by constructing retention walls / toe walls around the stockpiles and checkdams at specified locations in the mining lease. Locations are judiciously selected within the leasehold and plans are prepared to arrest washoff material along the contour and minimize the impact on surface water body.

OBJECTIVE OF THE SCHEME:

The objective of the scheme is to prevent the washoff/sliding down of the fines material from the fines dumps/stackyards in the ML area.

DETAILS OF PROPOSED WORK SCHEDULE

The following activities are proposed to be taken up to prevent sliding of material along contours of stackyards :-

1. To construct 300m retaining toe walls (300m x 1.5m x 1.5m) around the fines stack yard in Fines Loading point for prevention of sliding down of material
2. To construct 3 nos masonry boulder check dams of size 10m x 2m x 1.5m across the streamlets arising from fines stockpile areas

GPS readings of above proposed activities are shown on the entire land use map of the lease.

CHAPTER-IV

PROVISION OF FUNDS

TOTAL COST OF SCHEME FOR CONSTRUCTION OF CHECK DAMS, RETENTION WALL/TOE WALLS TO ARREST SLIDING DOWN OF THE EXCAVATED MATERIALS ALONG THE CONTOUR

Sl	Item of Work	Cost (Rs)
1	Construction of 300m retaining toe walls (300m x 1.5m x 1.5m) (Estimate at Annexure-I)	19,95,872.00
2	Construction of 3 (three) nos of Masonary Check dams (45m x 2m x 2m) (Estimate at Annexure-I)	37,81,230.00
	Total	57,77,102.00
	Escalation 20%	11,55,420.40
	Grand Total	69,32,522.40 = Rs 69,32,522/- (say)
	Rupees Sixty Nine lakhs thirty two thousand five hundred twenty two only	

The total cost of the implementation of above scheme will be Rs 69,32,522/- (Rupees Sixty Nine lakhs thirty two thousand five hundred twenty two only), as detailed above which will be borne by user agency at their Project Cost. The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency

Date :

महाप्रबंधक (खनन) / General Manager (Mines)
सेल. आर एम डी. बोलाणी - अयबक्स खदान
SAIL-RMD-Bolani Ores Mines
Bolan Ores Mines
Bolani-758 037, Keonjhar, Odisha

Divisional Forest Officer
Keonjhar Forest Division,
Office Seal
Divisional Forest Officer
Keonjhar Division

Date :

ANNEXURE -I

A. ESTIMATE FOR CONSTRUCTION OF 3 nos. (45m x 2m x 2m) LOOSE BOULDER CHECK DAMS

Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate(Rs)	Amount (Rs)
1	Earth work excavation in foundation								
		cum	3	45.00	1.00	0.30	40.50	130.80	5297.4
2	Dry Boulder								
	Drain Foundation	cum	3	45.00	2.50	0.30	101.25		
		cum	3	45.00	2.00	2.00	540.00		
							641.25	3100.00	1987875
3	Area Dressing								
		Sqm	270	1.00		1.00	270.00	10.00	2700
								Total	19,95,872.00
								Cost Per Check dam(Rs)	6,65,290.80

B. ESTIMATE FOR CONSTRUCTION OF 300 METER RETAINING WALL AT BOLANI ORES MINES

Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate (Rs)	Amount(Rs)
1	Earth work excavation in foundation								
	R/Wall	cum	1	300.00	1.00	1.50	450.00		
	Drain Foundation	cum	1	300.00	0.50	1.00	150.00		
							600.00	130.80	78480.00
2	Providing and laying P.C.C (1:4:8)								
	R/Wall	cum	1	300.00	1.00	0.10	30.00		
	Drain Foundation	cum	1	300.00	1.00	0.10	30.00		
							60.00	3500.00	210000.00
3	RRM MASONRY GRANITE STONE								
	R/Wall	cum	1	300.00	1.50	1.00	450.00		
	Drain Foundation	cum	1	300.00	1.50	1.25	562.50		
							1012.50	3100.00	3138750.00
4	Plastering								
	R/Wall	Sqm	2	300.00		1.50	900.00		
		Sqm	1	300.00		1.00	300.00		
	Drain	Sqm	1	300.00		0.50	150.00		
							1350.00	140.00	189000.00
5	40 mm Thick Flooring								
	Drain	sqm	1	300.00	0.50		150.00	200.00	30000.00
6	PCC 1:2:4								
	Wall Top	cum	2	300.00	1.00	0.05	30.00	4500.00	135000.00
									37,81,230.00

Jan

Annexure-VII-D

Scheme
OF
STABILIZATION OF OB DUMPS BY GRADING & BENCHING

in compliance to

Condition no – VII(d) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for
Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	
II	PHYSIOGRAPHY, GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA	
III	OBJECTIVE, WORK SCHEDULE & AGENCIES INVOLVED FOR IMPLEMENTATION OF THE SCHEME	
IV	PROVISION OF FUNDS	

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, Tahasilof Keonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies. In 1978, it was taken over by SAIL.

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases. Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants. The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant, Loading plant and railway siding, Tailing pond, OB and fines dumps, Water intake facility, township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI. The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015. In view recommendations of the State Govt, MoEF & CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha, the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha.

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF & CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980, 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the

Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha + 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (vii) :

"Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account .

- (d) Stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 28 degree; and ..."

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO, Keonjhar, preparation of the scheme of Stabilize the overburden dumps by appropriate grading/benching has been undertaken in consultation with the State Forest Department , for implementation at the project cost .

CHAPTER- II

PHYSIOGRAPHY ,GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining-lease viz. 600 TPH

Crushing and Screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease .

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia bellerica, Syzygium cumini, Mangifera indica, Schleicheria oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia chhapar, Helicteres sora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium carricosum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowseable and xerophytic in habit.

CHAPTER- III

OBJECTIVE & WORK SCHEDULE & AGENCIES INVOLVED FOR IMPLEMENTATION OF THE SCHEME

A terrace is an embankment or ridge of earth constructed across a slope to control runoff and minimize soil erosion . Bench terraces are effective soil conservation measures used on dump slopes for stabilisation. Failures of waste dumps are usually associated with gully erosion and re-establishment of surface water drainage courses also . Additionally, linear or convex slopes will become concave, steep slopes will flatten and straight flat drainage courses will meander due to sedimentation. The sedimentation from erodible materials on slopes could result in blockages of surface water drains, leading to bench overtopping and erosion gullies down embankments. Slumping and differential settlement could also influence surface water flow, leading to increased gully formation and material losses .

As there is no excavation of ore at present inside the 6.90 sq miles Mining Lease , there is not any active OB dump . There is one old OB dump inside this ML area and the same has been stabilized by plantation, terracing, grassing and retaining wall of 600 meters has been constructed around this OB dump . Nonetheless, Old fines stockpiles near loading plant and valley plant exist inside 6.9 sq. miles mining lease. Partial stabilization of old Fines stack/dump have been undertaken by

terracing and laying of coir mats and plantation of vetiver grasses. On resumption of mining, the OB dumps will be terraced and stabilized by the user agency as per the approved mining plan. Remaining portion of the fines stackyard/dumps will also be stabilised by grading, benching/terracing.

OBJECTIVE OF THE PLAN

The main objective of grading, benching/terracing i.e building terraces over dump slopes is to build the dumps with proper scientific design while doing mining activity to prevent slope failure leading to damage of vegetation in surrounding areas. The objectives of the proposed plan is to implement mining methodology for terracing of OB / Fines dump for stable dump slopes in accordance with approved mining plan so as to ensure that the overall slope is less than 28° .

DETAILS OF PROPOSED WORK SCHEDULE

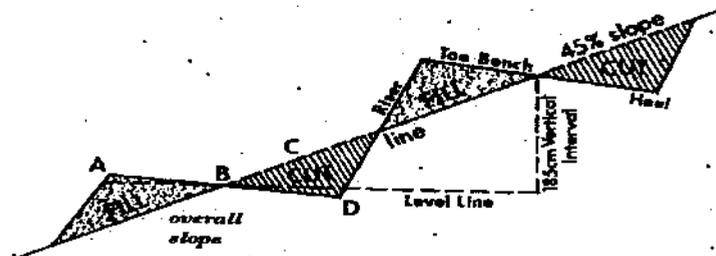
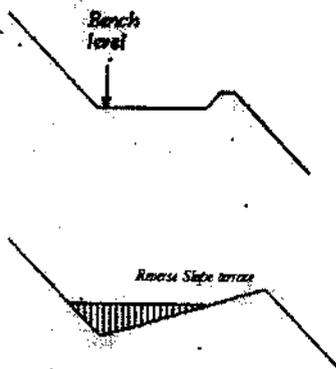
The following activities are proposed to be taken up to mitigate soil erosion and choking of streams :

1. Terracing of western side of Old fines dump to overall slope $< 28^{\circ}$,
2. Terracing of Eastern side of Old tailings dump to overall slope $< 28^{\circ}$

METHODOLOGY

Terracing is the practice of making embankments along with flattened portions of slope. It is the mechanical practice used on slopping dump surface to reduce the length and /or the degree of slope with the objectives of Soil conservation, checking slope soil erosion, decreasing runoff from slope etc. Following terrace types will be made : Ridge Type to remove or retain water on sloping land, Level type terrace or contour Bunding and Bench Terrace and Reverse slope terrace to reduce the land slope and prevent gully formation. The method adopted will be site specific to the point of dumping during mining

Level Terrace & Reverse slope Terrace



Schematic Showing Slope designs for stable Dump/fines stockpiles



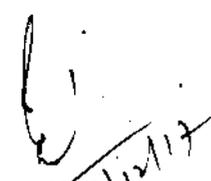
The measures proposed in the schemes require continuous involvement of man and machinery support which could be facilitated by the user agency. The method will be implemented by integrating waste dumping practice as a part of mining as per approved mining plan and mine closure plan. In view of the above, it is appropriate that the user agency, i.e. Bolani Ores Mines of M/s SAIL shall undertake the jobs enumerated in the scheme through their specialized engineering departments in consultation with local forest officials.

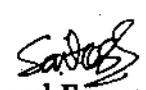
PROVISION OF FUNDS

As the job specifically uses mining machineries, the user agency will deploy its own mining machineries along with operators for terracing the dump slopes as per approved mining plan. The total cost of the implementation of this scheme will be borne by user agency at their Project Cost.

Place : Bolani

Date :


महाप्रबंधक (खनन) / General Manager (Mines)
सेल - ~~General Manager~~ अयक्स खदान
SAIL-RMD-Bolani Ores Mines
बोलांग ओरस मिन्स
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,
Divisional Forest Officer
Keonjhar Division

Annexure-VII-E

Scheme
OF
TOP SOIL MANAGEMENT

in compliance to

Condition no – VII(e) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for
Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

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III	OBJECTIVE, WORK SCHEDULE & METHODOOGY	
IV	PROVISION OF FUNDS	
	Annexures	
	Annexure-I	

CHAPTER-1

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, Tahasilof Keonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No

FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha+ 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (vii):

"Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account .

(C) No damage shall be caused to the top-soil and the user agency will follow the top soil management plan ..."

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO Keonjhar, preparation of the Top Soil Management Plan has been undertaken in consultation with the State Forest Department ,for implementation at the project cost.

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-

Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons.
Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes *Terminalia alata*, *Lagerstroemia perviflora*, *Anogeissus latifolia*, *Terminalia bellerica*, *Syzygium cumini*, *Mangifera indica*, *Schleichera oleosa*, *Adina cordifolia*, *Pterocarpus marsupium*, *Bombax ceiba*, *Bridelia retusa*, *Madhuca indica*. The middle story is represented by *Syzygium cumini*, *Ougeinia ougenensis*, *Careya arborea*, *Trema orientalis*, *Emblia officinalis*, *Cassia fistula* etc. The shrubs and undergrowth are characterized by *Indigofera pulchella*, *Ardisia solanacea*, *Flemingia chhapar*, *Helicteres ixora* and *Clerodendron viscosum* etc. The prevailing climbers include *Bauhinia vahlii*, *Combretum decandrum* and *Beutia parviflora*. The grasses over the forest floor include *Chrysopogon aciculatus*, *Imperata cylindrica*, *Dicanthium caricosum*, *Cynodactylon* etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowsable and xerophytic in habit.

SOIL TYPE

Details of soil studies were conducted during impact assessment and other scientific studies . As per the sources, the top soil layer is very thin . The soil of the lease hold area have characteristic reddish tinge and predominant soil type of the region may be classified as red earth & red loam . The dominant colours found in field conditions are dusky red, reddish brown, dark reddish brown, red, dark red etc. The texture of the soil varies from sandy loamy in the regions like afforested waste dump, back filled waste dump, barren land and sandy clay loamy in the areas like agricultural field, old tailing pond and tailing pond discharged area. This type of soil coupled with gravel, boulder etc. particularly in the waste dumps and mined out areas, allows, free drainage of water, down in the profile causing intense leaching. The water

retention capacity of soil varies from location to location in side the lease hold area. The water retention capacity of soil in agricultural field, valley and tailing pond areas are high and that in the barren land is comparatively quite low. Most of the soil found to be slightly acidic in nature and this may be due to weathering and bacterial action on available sulphur. The available N P K analysis of the soil indicates that the soil in the BolaniBasti Agricultural land and that in the Reserve Forest area are quiet good as compared to the active waste dump and tailing pond areas . The top soil inside the 6.90 sq miles ML area is scanty .As such there is no excavation of ore at present inside the 6.90 sq miles MiningLease .Whatever top soil is available that is to be excavated during the future development of the mine pits is rocky in nature .

CHAPTER- III

OBJECTIVE, WORK SCHEDULE &METHODOOGY

As there is no excavayon of ore at present inside the 6.90 sq miles MinjngLease , there is not any active Topsoil dump . Precautionary measures will be taken , as per the approved mining plan,to prevent any damage to the top soil, on resumption of mining . The excavated top-soil will be utilized for concurrent plantation works in the mine as per this plan.

On the commencement of mining some of the top soil will be stored temporarily until it can be used for plantation works / dump reclamation. Minimum storage time shall be attempted to avoid nutrient loss.In this scheme, emphasis has been given to prevent damage of top soil to be excavated from the quarries on resumption of mining activities .

OBJECTIVE OF THE PLAN

The objectives of Top soil management Plan is to provide suitable topsoil material excavated from expanding quarries for rehabilitation work of dumps, back filled areas and degraded lands and conserve top soil in and around the degraded forest land within the lease .

DETAILS OF PROPOSED WORK SCHEDULE

The average thickness of topsoil in the virgin areas will be around 5 cm - 10 cm. The quantity of topsoil to be stripped from the site will be used to rehabilitate the OB dumps, backfilled and other barren/degraded areas .Prior to stripping, vegetation will be removed or reduced by jungle/bush clearing. A proposed procedure for soil handling is presented below which includes soil handling measures which optimise the retention of soil characteristics (in terms of nutrients and micro-organisms) favourable to plant growth:

METHODOLOGY

In accordance with the above objective of providing sufficient stable soil material for rehabilitation and to optimise soil recovery, the following strategies will be adopted as per approved mining plan :

1. Topsoil stockpiles are to be located outside quarry areas ;

2. Promote re-vegetation of top soil dumps including degraded lands by sowing of seedsover 60.0 ha degraded forest land .
3. To utilise stripped top soil as soon as possible for rehabilitation in phase wise in accordance with the rehabilitation pattern as per approved Mining Plan.
4. Soil and Moisture Conservation measures in the degraded forest areasover 60.0 ha degraded forest land .

CHAPTER-IV

PROVISION OF FUNDS

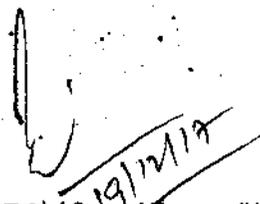
TOTAL COST OF TOP SOIL MANAGEMENT PAN

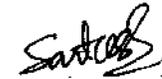
	Cost breakups	Value in Rs
1.	Cost of sowing of seedsover 60.0 ha degraded forest land	6,24,300.00
2.	Cost of 60 nos of LBCD	4,19,149.80
	Cost of Staggard Contour Trenches over 60.0Ha	7,68,600.00
	Total	1,812,049.80
3.	Add 20% escalation	362409.96
	Total	2,174,459.76
		21,74,460/- (say)
(Rupees Twenty One Lakhs seventy four thousand four hundred and sixty only)		

The total cost of the implementation of above measures will be Rs.21,74,460/- (Rupees Twenty One Lakhseventy four thousand four hundred and sixtyOnly) as detailed above which will be borne by user agency at their Project Cost .The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency .

Place :Bolani

Date :


 महाप्रबंधक (खनन) / General Manager (Mines)
 सेल - अखिल भारतीय प्रयक्स खदान
 Bolani Ores Mines
 बोलानी-758 037, क्यंझर, ओड़ीसा
 Bolani-758 037, Keonjhar, Odisha


 Divisional Forest Officer
 Keonjhar Forest Division,
 Office Seal
 Divisional Forest Officer
 Keonjhar Division

ANNEXURE – I
COST ESTIMATE OF SOWING SEEDS AND SMC PROPOSALS

Estimate of Loose Boulder Structure (LBCD), of size 10' x 10' x 5' (as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF &HoFF, Govt of Odisha .

(I) **Loose Boulder Check dams (LBCD)**

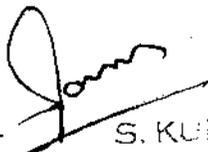
S	Item	Quantity in cum	Rate Cost / per cum) in Rs	Cost per LBCD (Rs)
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms .	9.9	156.40	1548.36
3	Total required Labour	9.9	350.25	3467.47
	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83
	Total Cost of erecting 60nos of LBCD estimated for the site			4,19,149.80

(II) **Staggered Contour Trench (SCT)**

Sl	Item	Mandays	Rate per manday in Rs	Cost of SCT (Rs)
1	Staggered contour trench of size 2.5m x 0.5m x 0.5m) at the rate of 300 ST / ha (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum	60	213.50	12810.00
	Total Cost of SCT for 60ha estimated for the site			12810.00 x 60 = 7,68,600.00

(III) **Cost of sowing of seeds**

Sl	Item	Mandays/ quantity required per ha	Rate per manday/Rate per kg in Rs	Cost perha (Rs)
1	Collection of seeds of local grasses	20	213.50	4270.00
2	Purchase of stylosyntheseshamata	25	200/- /kg	4000.00
3	Manday Cost of broadcasting and maintenance	10	213.50	2135.00
4	Total cost of sowing of seeds per hectare			10405.00
5	Total Cost of sowing of seeds over 60.0 hectare			6,24,300.00


S. KUMAR
 Deputy Manager (Civil)
 SALT, TORANGA

Annexure-VIII A

Scheme
OF
FENCING, PROTECTION AND REGENERATION
OF THE SAFETY ZONE AREA

in compliance to

Condition no – VIII of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for
Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	3
II	PHYSIOGRAPHY , GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA	4
III	SITE SELECTION & OBJECTIVE OF THE SCHEME	5
IV	DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION	6
V	COST STRUCTURE OF PLANTATION& SMC WORKS	10
VI	PROVISION OF FUNDS	13
VII	ANNEXURES	

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML(1321.45 ha)) on the hill bearing the iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease.

The 6.90 Sq Miles ML of Bolani Ores Mines of M/s SAIL, applied during 2nd RML over 1586.36 ha, involves 339.210 ha of Karo RF, 146.009 ha of Revenue Forest, 238.093 ha of Non-forest land recorded as forest as on 25.10.1980. The total Non-Forest land involved in the mining lease is 463.029 ha as per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha, the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha ..

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML

● Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha + 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (viii), the following has been stipulated :

“Fencing, protection and regeneration of the safety zone area [7.5 meters strip shall be kept within the mining lease boundary and area of the- safety zone shall be part of the total area of mining lease as per the Ministry’s guidelines dated 27.05.2015] shall be done within three year at the project cost from the issue of Stage-II Clearance....”

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017, preparation of the scheme Fencing, protection and regeneration of the safety zone area has been undertaken in consultation with the State Forest Department, for implementation at the project cost .

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA

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There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease .

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The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia bellerica, Syzygium cumini, Mangifera indica, Schleicheraleosa. Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres isora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium caricum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowsable and xerophytic in habit.

CHAPTER- III

SITE SELECTION & OBJECTIVE OF THE SCHEME

SITE SELECTION

Safety zone earmarked over 7.5 meter strip along the lease boundary and 50 meters strip of Left side of Karo River coming within sabik forest has been included in the scheme of safety zone. Total 11.061 ha. of forest land viz 7.5m all along the lease boundary and 50 m along Karo River passing through the mining lease coming within sabik forest (excluding private plots) has been covered under this scheme . The forest land within the safety zone within boundary of the ML area (6.90 sq miles ML), is having crown density <0.4 and is degraded in nature . Afforestation in ANR model with gap plantation will be taken up over the area over 11.061 ha .The earmarked safety zone area has been shown on the authenticated map submitted along with the diversion proposal . The present scheme aims at preparation of site specific afforestation scheme over above 11.061 Hadegraded forest land in ANR Plantation mode (@600 saplings / Ha) with adequate soil and Moisture conservations .

OBJECTIVE OF THE SCHEME:

The main objective of the present scheme is to fulfil the first part of the condition-viii stipulated in the grant order of stage-I , of MoEF,GOI and accordingly undertake fencing and protection of the safety zone area for regeneration of the degraded forest lands within sabikkisam forest land within 6.90 sq miles ML area of Bolani Iron Ore Mines to restock these degraded forest crop by taking up tending operation of the existing forest crop and supplementing with ANR plantation at the rate of 600 plants per hectare in blank, in consultation with State Forest Department . The scheme will be implemented within a period of three(3) years from the date of getting Stage-II approval:

Hence, the main objective of the present regeneration scheme is as follows :-

- 1) To undertake barbed wire fencing around the safety zone
- 2) To undertake afforestation inside safety zone by ANR plantation mode
- 3) To protect the area against encroachment, illicit felling, fire incidences, grazing and all other forms of biotic interference and allow unhindered growth of the saplings.

The User Agency shall be responsible for placement of the required funds as per approved scheme.

CHAPTER- IV

DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be undertaken as per the plan .The SMC works will be undertaken over the different patches shown in the map and planting plan. This plan will be followed when actual planting is carried out.

Native Species to be planted:

1. *Dalbergiasissoo*(Sissoo)
2. *Azadirachtaindica*(Neem)
3. *Gmelinaarborea* (Gambhari)
4. *Terminaliabelerica*(Bahada)
5. *Terminaliachebula*(Harida)
6. *Pongamiapinnata* (Karanja)
7. *Emblicaofficinalis* (Ainala)
8. *Madhucaindica*(Mahul)
9. *Mangiferaindica* (Amba)
10. *Artocarpusheterophylla* (Panash)

11. In the peripheral areas of the site (susceptible to grazing) may be planted with non-browsable species like *Tectonagrandis* (teak), *Acacia*, *Alstoniascholaris* Chhatian),

Simarubaglauca, *Anonnasquamosa* (Sitaphal), etc. . Planting operation is to be done as per Odisha Forest Plantation Manual-1977 & the guideline & norms of forest & Environment Department.

12. The non native species to be included are *Acacia mangium*, *Simaroubaglauca* on some selected sites only.

B. PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @ 660 seedlings per ha including seedlings for 10% causality replacement.

B(II)-SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING

The planting area will be surveyed and demarcated with GPS coordinates of respective pillar no as per the GPS map along with the field notes before undertaking plantation .

B(III) SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS.

The clearing of the site involving removal of invasive weeds, bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 30 x 30 x 30 cm. will be dug @600 per ha. in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION

D(1)-CASUALTY REPLACEMENT

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over..

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the stumps is complete or after the seedlings have started throwing up new buds.

D(3)-MANURING AND INSECTICIDE APPLICATION

On degraded sites urban compost or farmyard manure, wherever available, will be added to the soil while refilling the pits. As regards artificial fertilizers, the minerals required and dosage @ 50 grams of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-PROTECTION AGAINST FIRE AND GRAZING

Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved cost norm for protecting the plantation from grazing with involvement of VSS of nearby villages.

D(5)-SOIL MOISTURE CONSERVATION MEASURES

Soil and moisture conservation activities are to be taken up and dovetailed to plantation/afforestation activities in order to retain the soil and conserve maximum precipitation on forest floor to improve water availability in Forests. It is to be practised as a core forestry activity independent of other forestry interventions. In order to achieve the objective and implement the programme efficiently, a wellplanned strategy is indispensable.

The objective of the Soil and Moisture Conservation works proposed here is :

- I. To counteract soil erosion by reducing water flow velocity
- II. To achieve soil moisture/water balance and to increase groundwater recharge to prevent drying out due to water shortage in drought period.
- III. To provide sufficient storage by erecting runoff Bunds along field boundaries without reference to contour, as the area is a low rainfall area.

The strategy adopted for Soil and Moisture conservation measures in the scheme is enumerated below :

- (i) Loose Boulder Check dams (LBCD)
- (ii) Staggerd Trenches and percolation pits

Loose Boulder Check dams (LBCD) :As per the condition of identified site, Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' as drainage line treatment. This structure is to be created across the drainage line for retention of runoff and reduction of velocity. Such structures should preferably have top width of one meter with upstream slope of 1:1 and downstream slope of 1:5. On either side of the LBCD, trenches of prescribed dimension should be created to allow the vertically running water to spread on either side at the obstruction point which will reduce the velocity effectively. Such structures will also capture more rainwater and enhance infiltration.

StaggerdContur Trenches (SCT):

The prime objective of any soil and moisture conservation work is to retain run off water flowing down the slope. Enhancement of infiltration is the ultimate objective of any SMC scheme which facilitates recharging of ground aquifer. Restriction of sub-surface flow

→ makes water available to the vegetation within root zone. Treatment of forest floor and drainage line with suitable interventions helps in retention of rain water and depending on the nature of soil profiles allows variable quantities of water to infiltrate. The staggered trenches are primarily aimed to break the runoff and not to let the fertile soil particles lost by water.

CHAPTER- V

COST STRUCTURE OF PLANTATION& SMC WORKS

A. COST STRUCTURE OF PLANTATION : ESTIMATE OF COST FOR 1.00 HA. UNDER ANR PLANTATION MODEL COST NORM FOR ANR PLANTATION @ 600 PLANTS PER HECTARE, WAGE RATE Rs. 213.50 /- PER DAY

Sl. No.	Item of work	Preferable period of execution	Person days	Labour (Rs.)	Material (Rs.)	Total
0th year (Advance work) Pre-planting operation						
1	Survey, Demarcation & pillar posting, GPS Reading with mapping	Nov-Dec	2	427	0	427
2	Site preparation.	Nov-Dec	2	427	0	427
3	Silvicultural Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots etc	Jan-Feb	5	1067.5	0	1067.5
4	Nursery cost (6 months old seedling) part @Rs.9.45/- seedling (Rs.6.67 in 0 th year + Rs.2.78 in 1 st year) for 660 seedlings (600+60)	Jan-March	16.5	3522.75	1102	4624.75
5	Contingency and Unforeseen Expenditures		0	0	198	198
	Sub-Total		25.5	5444.25	1300	6744.25
1ST YEAR OPERATION						
1	Nursery cost (6 months old seedling) balance @Rs.2.78 for 660 seedling	Apr-Jul	8	1708	235	1943
2	Pitting 30 cm cube size	Feb/Mar	18	3843	0	3843
3	Carriage and planting including casualty replacement	Jul/Aug	15	3202.5	0	3202.5
4	Complete weeding, Soil working, Manuring	Aug/Sep	18	3843	0	3843
5	Cost of Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 and Granular Insecticide 5 gms/ plant @Rs.80/- per Kg= Rs.240.00	Aug/Sep	0	0	2640	2640
6	Cost of Chemical fertilizer (a) Urea 70 gms/ plant in two subsequent doses @Rs.6/- per Kg= Rs.252.00 (b)NPK 50 gms/ plant @Rs.24/- per kg= Rs.720.00 as basal dose.		0	0	972	972
7	Silvicultural Operation involving clearance of weeds, cutting of climbers, singling of shoots etc.	Sep/ Oct	15	3202.5	0	3202.5
8	Soil Conservation Measures (Staggered trenches of dimension 2m X 0.5m X 0.5m @60 nos per ha) or its equivalent	Sep/ Oct	20	4270	0	4270
9	Fireline Tracing and Inspection path	Feb/ Mar	3	640.5	0	640.5
10	Watch & ward	Aug-Mar	7	1494.5	0	1494.5
11	Contingency and Unforeseen Expenditures		0	0	353	353
	Sub-Total		104	22204	4200	26404

2 ND YEAR OPERATION						
1	Casualty Replacement including cost of seedling, carriage and planting	Jul/ Aug	3	640.5	567	1207.5
2	Complete weeding and cultural operations	Sep/ Oct	6	1281	0	1281
3	Soil working and manuring	Sep/ Oct	6	1281	0	1281
4	Cost of Fertilizer and insecticide (a) Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 (b) Granular Insecticides 5 gms/ plant for 60 plants 300 gms @Rs.80/- per Kg= Rs.24.00	Sep/ Oct	0	0	2424	2424
5	Soil Conservation Measures (Renovation of staggered trenches etc.)	Sep/ Oct	8	1708	0	1708
6	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
7	Watch & ward (whole year)	Apr/ Mar	7	1494.5	0	1494.5
8	Contingency and Unforeseen Expenditures		0	0	193	193
	Sub-Total		31	6618.5	3184	9802.5
3 RD YEAR OPERATION						
1	Complete weeding and cultural operations	Aug/ Sep	3	640.5	0	640.5
2	Soil working	Aug/ Sep	3	640.5	0	640.5
3	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
4	Watch & ward (whole year)	Apr-Mar	7	1494.5	0	1494.5
	Sub-Total		14	2989	0	2989
4 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
5 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
6 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
7 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
8 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
9 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5

2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
10TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
	Grand Total		195.5	41739.25	8684	50423.25

ABSTRACT

Year	Person days	Labour	Material (Rs)	Total (Rs)
0th Year	25.5	5444.25	1300	6744.25
1st Year	104	22204	4200	26404
2nd Year	31	6618.5	3184	9802.5
3rd Year	14	2989	0	2989
4th Year	3	640.5	0	640.5
5th Year	3	640.5	0	640.5
6th Year	3	640.5	0	640.5
7th Year	3	640.5	0	640.5
8th Year	3	640.5	0	640.5
9th Year	3	640.5	0	640.5
10th Year	3	640.5	0	640.5
Total	195.5	41739.25	8684	50423.25
Total Cost Norm per ha.				50423.25
Total Cost of plantation for 11.061 ha.				5,57,731.56

ADDITIONAL COST PROPOSED FOR PROTECTION, FENCING AND SMC WORKS WITHIN SAFETY ZONE FOR REGENERATION

1	SMC measures- LBCD structure of dimension 10' x 10' x 5' @Rs. 6985.83/- (cost of Transportation within a lead of 5.0 km i.e. Rs. 1548.36+ cost of construction Rs.5437.47) per LBCD structure for 15nos LBCD structures .	1,04,787.45
2	Staggered trenches(2.5mt x 0.5mt x 0.5 mt) @60MD per ha over 11.061 ha @ Rs. 12810 per ha.	1,41,691.41
3	Cost of barbed wire fencing over 2.5 kms (Annexure-II)	28,33,575.00
4	Cost of 2nbs Protection watchers @ 213.50 per day for 10 years	15,58,550.00
5	Additional incentive (3% of cumulative expenditure) for VSS/Fr./FG proposed for more than 80% survival and very good growth during 4 th year of maintenance as per recommendation of DFO and RCCF. @Rs. 1379/- per ha for 11.061 ha.	15,253.11
6	Additional EPA expenses if implemented through VSS at rate Rs.1200/- in 0 th Year, Rs.2400/- in 1 st Year, Rs.1800/- in 2 nd Year, Rs.600/- in 3 rd Year, Rs.600/- in 4 th Year, Rs.600/- in 5 th Year, Rs.600/- in 6 th year, Rs.600/- in 7 th year, Rs.600/- in 8 th year, Rs.600/- in 9 th year, Rs.600/- in 10 th year @ Rs. 10200/- per ha for 11.061 ha	1,12,822.20
	Total	47,66,679.17

CHAPTER – V

PROVISION OF FUNDS

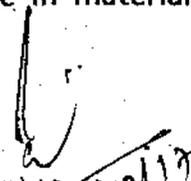
TOTAL COST OF THE SCHEME FOR FENCING, PROTECTION AND
REGENERATION OF THE SAFETY ZONE AREA

	Cost breakups	Value in Rs
1.	Cost of Plantation over 11.061 ha safety zone @ Rs.50,423.25/- per ha.	5,57,731.56
2	Total additional cost including 5 nos of protection watchers and barbed wire fencing	47,66,679.17
	Total	53,24,410.73
3	Add 20% escalation	10,64,882.14
	Total	63,89,292.87 63,89,293.00/- (say)
	(Rupees Sixty three lakhs eighty nine thousand and two hundred ninety three only)	

The total cost of the implementation of Safety zone scheme will be Rs.63,89,293.00/- (Sixty three lakhs eighty nine thousand and two hundred ninety three only) as detailed above which will be borne by user agency at their Project Cost .The User Agency shall be responsible for placement of the required funds as per approved scheme.The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency .

Place :Bolani

Date :


महाप्रबंधक (खनन) / General Manager (Mines).
सेल - आर एम डी - बोलाणी - अर्थव्यवस्था खदान
SAIL General Manager Mines
बोलाणी-758 037, केजहार, ओडिशा
Bolani Mines, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,

Office Seal
Divisional Forest Officer
Keonjhar Division

ANNEXURE – I

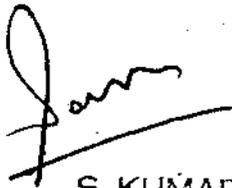
COST ESTIMATE OFSMC PROPOSALS WITHIN SAFETY ZONE

- (I) **Loose Boulder Check dams (LBCD)** Estimate of Loose Boulder Structure (LBCD), of size 10' x 10' x 5' (as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF &HoFF, Govt of Odisha .

S 1	Item	Quantity in cum	Rate Cost / per-cum) in Rs	Cost per LBCD (Rs).
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms .	9.9	156.40	1548.36
3	Total required Labour	9.9	350.25	3467.47
	Total Cost of erecting one 1.no LBCD	9.9	705.65	6985.83
	Total Cost of erecting 15nos of LBCD estimated for the site			1,04,787.45

- (I) **Staggered Contour Trench (SCT)**

Sl	Item	Mandays	Rate per manday in Rs	Cost of ST perha (Rs) .
1	Staggered contour trench of size 2.5m x 0.5m x 0.5m) at the rate of 300 ST / ha (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum	60	213.50	12810.00
	Total Cost of SCT for 11.061 ha estimated for the site			12810.00x11.061 ha = 1,41,691.41

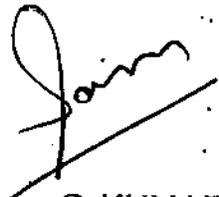


S. KUMAR;
Deputy Manager (Civil)
SAIL-RONB-0011

ANNEXURE – II

ESTIMATE OF COST FOR BARBED WIRE FENCING

No of pillars required 500 nos.		
Cost of 1 pillar	Rs.	568.00
Transportation charges	Rs.	244.00
Cost of base fixing	Rs.	244.00
Cost of fixing barbed wire @ 49.00	Rs.	49.00
Total Cost for fixing 1 pillar	Rs.	1105.00
Cost for 500 pillars	Rs.	5,52,500.00
Cost of barbed wire (1 Qntls.) @ 13,200.00		
Cost barbed wire (5+2) strand 7500 mtrs or 15 Qntls.	Rs.	1,98,000.00
Total cost for 1 Km.	Rs.	7,50,500.00
Total cost for fencing over 2.5 Kms	Rs.	1876250.00
Maintenance 5% - Rs. 93812.50/- per annum For 10 years	Rs.	938125.00
Provision of Gate 2 nos. @ Rs.9,600/- per gate	Rs.	19200.00
Total barbed wire fencing over 2.5 Kms.	Rs.	28,33,575.00



S. KUMAR
Deputy Manager (S&P)
SAIL-RISIKESHAH

Annexure-IX

BY SPEED POST

No. J-11015/396/2008-IA.II(M)
 Government of India
 Ministry of Environment & Forests

534, Paryavaran Bhavan,
 C.G.O. Complex, Lodi Road,
 New Delhi-110 003.

Dated 21st December, 2012

To

M/s Steel Authority of India Ltd.
 20th Floor, Scope Minar
 Laxmi Nagar, Ditt. Centre
 Delhi - 110092

Subject: Bolani Iron Ore Mine of M/s SAIL located at village Bolani, Tehsil Barbil, District Keonjhar, Odisha – (6.9 Sq. mile)- environmental clearance – regarding.

Sir,

This has reference to your letter No. RMD/K/E&L/11/265 dated 14.12.2011 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 5.2.2008 for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification. The proposal is for environment clearance for production of 15,000 TPA of manganese ore (ROM). The mine is reported to be closed since 1978.

2. The mine is located between latitudes 22°05'N & 22°07'N and longitudes 85°19' & 85°23'E. Interstate boundary between Jharkhand and Orissa also lies on Western side at a distance of 1.5 km. The mine lease area is 1786.74 ha, which includes 706.52 ha of forestland. Stage-I forestry clearance was obtained on 24th February, 1999 for diversion of 706.52 ha of forestland. Mine working will be opencast semi-mechanised involving drilling and blasting. The mine working will not intersect with the ground water table. The peak water requirement is estimated as 48 kld, which will be obtained from Karo nadi and Jhikaria and Chapua nallahs. No groundwater will be withdrawn. Mining plan has been approved by IBM vide dated 06-08-2010.

3. It was observed that high levels of RSPM were there in the area due to bad road conditions in and around the mine lease. The proponent has undertaken repair of various identified stretches as also sprinkling of water on the public roads. The baseline AAQ data collected during March - April, 2012 compared with the data collected during winter season of 2008-09, although showed improvement in terms of RSPM levels.

4. No National park / Wildlife sanctuary / Biosphere reserve / Tiger reserve / Elephant reserve, etc., are reported to be located in the core and buffer zone of within 10 km of the

(xxviii) The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.

8. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

9. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

10. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made thereunder and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Orissa and any other Court of Law relating to the subject matter.

11. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


(Dr. Saroj)
Director

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Environment, Government of Orissa, Secretariat, Bhubaneswar.
- (iii) The Secretary, Department of Mines and Geology, Government of Orissa, Secretariat, Bhubaneswar.
- (iv) The Secretary, Department of Forests, Government of Orissa, Secretariat, Bhubaneswar.
- (v) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
- (vi) The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests, A-3 Chandrashekharapur, Bhubaneswar-751023.
- (vii) The Chairman, Orissa State Pollution Control Board, Parivesh Bhawan, A/118 Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
- (viii) The Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (ix) The District Collector, District Keonjhar, Government of Orissa.

Annexure-X

Scheme

OF

**GAP PLANTATION, SOIL & MOISTURE CONSERVATION TO
RESTOCK AND REJUVANATE DEGRADED FOREST WITHIN 100M IN
OUTER PERIMETER OF MINING LEASE
OF 6.90 SQ MILES ML OF M/S SAIL - BOLANI ORES MINES**

in compliance to

**Condition no – XXIII of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi**

for

**Diversion of 124.313 Hects of Sabik Kism Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District**



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	3
II	PHYSIOGRAPHY , GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA	4
III	SITE SELECTION &OBJECTIVE OF THE SCHEME	5
IV	DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION	6
V	COST STRUCTURE OF PLANTATION& SMC WORKS	10
VI	PROVISION OF FUNDS	12
VII	ANNEXURES	

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on.29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease.

The 6.90 Sq Miles ML of Bolani Ores Mines of M/s SAIL, applied during 2nd RML over 1586.36 ha, involves 339.210 ha of Karo RF, 146.009 ha of Revenue Forest, 238.093 ha of Non-forest land recorded as forest as on 25.10.1980. The total Non-Forest land involved in the mining lease is 463.029 ha as per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha, the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha ..

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML

Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha + 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (xxiii), the following has been stipulated :

“User agency either himself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 m. from outer perimeter of the mining lease. The plan for plantation and SMC activities will be prepared and submitted to MoEF&CC before Stage-II Clearance....”

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO Keonjhar, preparation of the scheme Fencing, protection and regeneration of the safety zone area has been undertaken in consultation with the State Forest Department, for implementation at the project cost .

CHAPTER- II

PHYSIOGRAPHY ,GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e.haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid& Blue dust are the major form of ore located in this physiographic zone.Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease .

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q.III occurs on the hill slopes of moderate gradient. Q.IV sal mainly confined in the ridges. Q.I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia belerica, Syzygium cumini, Mangifera indica, Schleicheria oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres sora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium carricosum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowseable and xerophytic in habit.

CHAPTER- III

SITE SELECTION & OBJECTIVE OF THE SCHEME

SITE SELECTION

Area earmarked over 100 meter strip covering degraded forest land and non forest govt land along the outer periphery of lease boundary was identified for Gap plantation and SMC works , which has been included in the scheme. The land within the 100m from boundary of the ML area (6.90 sq miles ML), is having crown density <0.4 and is degraded in nature . Afforestation in ANR model with gap plantation will be taken up over the area over this land. The earmarked area has been shown on the map submitted along with the scheme . The present scheme aims at preparation of site specific afforestation scheme over above 15.0 ha degraded forest land in ANR Plantation mode (@600 saplings / Ha) with adequate soil and Moisture conservation .

OBJECTIVE OF THE SCHEME:

The main objective of the present scheme is to fulfil the condition XXIII stipulated in the grant order of stage-I, vide Letter No. 8-87/1996(Vol.I) Dt.12.09.2017 of Govt. of India, Ministry of Environment & Forests, New Delhi and accordingly afforest the selected degraded open forest lands within 100m from outer perimeter 6.90 sq miles ML area of Bolani Iron Ore Mines to restock these degraded forest crop by taking up tending operation of the existing forest crop and supplementing with ANR plantation at the rate of 600 plants per hectare in blank, in consultation with State Forest Department. However at places where the natural regeneration of promising species of forest crops are available, they shall be nourished to also form the future crop of the area. It further seeks to incorporate suitable soil conservation measures with the afforestation works, so as to conserve soil and water for enrichment of the eco-system. The scheme will be implemented in phased manner during the 2nd renewal period. As the user agency has no control over the areas beyond ML boundary, the User Agency shall be responsible for placement of the required funds with State Forest Department, for implementation as per approved scheme.

CHAPTER- IV

DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be undertaken as per the plan. The SMC works will be undertaken over the different patches shown in the map and planting plan. This plan will be followed when actual planting is carried out.

Native Species to be planted:

1. *Dalbergiasisoo*(Sisoo)
2. *Azadirachtaindica*(Neem)
3. *Gmelinaarborea* (Gambhari)
4. *Terminaliabelerica*(Bahada)
5. *Terminaliachebula*(Harida)
6. *Pongamiapinnata* (Karanja)
7. *Emblicoefficialis* (Ainala)
8. *Madhucaindica*(Mahul)
9. *Mangiferaindica* (Amba)
10. *Artocarpusheterophylla* (Panash)
11. In the peripheral areas of the site (susceptible to grazing) may be planted with non-browsable species like *Tectonagrandis* (teak), *Acasia*, *Alstoniascholaris* (Chhatian), *Simarubaglauca*, *Anonnasquamosa* (Sitaphal), etc. . Planting operation is to be done as per Odisha Forest Plantation Manual-1977 & the guideline & norms of forest & Environment Department.

12. The non native species to be included are Acacia mangium ,Simaroubaglauca on some selected sites only.

B.PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @ 660 seedlings per ha including seedlings for 10% causality replacement.

B(II)-SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING

The planting area will be surveyed and demarcated with GPS coordinates of respective pillar no as per the GPS map along with the field notes before undertaking plantation .

B(III) SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS.

The clearing of the site involving removal of invasive weeds; bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 30 x 30 x 30 cm. will be dug @600 per ha. in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION

D(1)-CASUALTY REPLACEMENT

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over.

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the stumps is complete or after the seedlings have started throwing up new buds.

D(3)-MANURING AND INSECTICIDE APPLICATION

On degraded sites urban compost or farmyard manure, wherever available, will be added to the soil while refilling the pits. As regards artificial fertilizers, the minerals required and

dosage @ 50 grammas of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-PROTECTION AGAINST FIRE AND GRAZING

Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved cost norm for protecting the plantation from grazing with involvement of VSS of nearby villages.

D(5)-SOIL MOISTURE CONSERVATION MEASURES

Soil and moisture conservation activities are to be taken up and dovetailed to plantation/afforestation activities in order to retain the soil and conserve maximum precipitation on forest floor to improve water availability in Forests. It is to be practised as a core forestry activity independent of other forestry interventions. In order to achieve the objective and implement the programme efficiently, a wellplanned strategy is indispensable.

The objective of the Soil and Moisture Conservation works proposed here is :

- I. To counteract soil erosion by reducing water flow velocity
- II. To achieve soil moisture/water balance and to increase groundwater recharge to prevent drying out due to water shortage in drought period ..
- III. To provide sufficient storage by erecting runoff Bunds along field boundaries without reference to contour, as the area is a low rainfall area .

The strategy adopted for Soil and Moisture conservation measures in the scheme is enumerated below :

- (i) Loose Boulder Check dams (LBCD)
- (ii) Staggerd Trenches and percolation pits

Loose Boulder Check dams (LBCD) :As per the condition of identified site, Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' as drainage line treatment . This structure is to be created across the drainage line for retention of runoff and reduction of velocity. Such structures should preferably have top width of one meter with upstream slope of 1:1 and downstream slope of 1:5 . On either side of the LBCD, trenches of prescribed dimension should be created to allow the vertically running water to spread on either side at the obstruction point which will reduce the velocity effectively. Such structures will also capture more rainwater and enhance infiltration.

StaggerdContur Trenches (SCT):

The prime objective of any soil and moisture conservation work is to retain run off water flowing down the slope. Enhancement of infiltration is the ultimate objective of any SMC scheme which facilitates recharging of ground aquifer. Restriction of sub-surface flow makes water available to the vegetation within root zone. Treatment of forest floor and drainage line with suitable interventions helps in retention of rain water and depending on the nature of soil profiles allows variable quantities of water to infiltrate. The staggered trenches are primarily aimed to break the runoff and not to let the fertile soil particles lost by water.

CHAPTER- V

COST STRUCTURE OF PLANTATION & SMC WORKS

A. COST STRUCTURE OF PLANTATION : ESTIMATE OF COST FOR 1.00 HA. UNDER ANR PLANTATION MODEL COST NORM FOR ANR PLANTATION @ 600 PLANTS PER HECTARE, WAGE RATE Rs. 213.50 /- PER DAY

Sl. No.	Item of work	Preferable period of execution	Person days	Labour (Rs.)	Material (Rs.)	Total
0th year (Advance work) Pre-planting operation						
1	Survey, Demarcation & pillar posting, GPS Reading with mapping	Nov-Dec	2	427	0	427
2	Site preparation.	Nov-Dec	2	427	0	427
3	Silvicultural Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots etc	Jan-Feb	5	1067.5	0	1067.5
4	Nursery cost (6 months old seedling) part @Rs.9.45/- seedling (Rs.6.67 in 0 th year + Rs.2.78 in 1 st year) for 660 seedlings. (600+60)	Jan-March	16.5	3522.75	1102	4624.75
5	Contingency and Unforeseen Expenditures		0	0	198	198
	Sub-Total		25.5	5444.25	1300	6744.25
1ST YEAR OPERATION						
1	Nursery cost (6 months old seedling) balance @Rs.2.78 for 660 seedling	Apr-Jul	8	1708	235	1943
2	Pitting 30 cm cube size	Feb/Mar	18	3843	0	3843
3	Carriage and planting including casualty replacement	Jul/Aug	15	3202.5	0	3202.5
4	Complete weeding, Soil working, Manuring	Aug/Sep	18	3843	0	3843
5	Cost of Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 and Granular Insecticide 5 gms/ plant @Rs.80/- per Kg= Rs.240.00	Aug/Sep	0	0	2640	2640
6	Cost of Chemical fertilizer (a) Urea 70 gms/ plant in two subsequent doses @Rs.6/- per Kg= Rs.252.00 (b)NPK 50 gms/ plant @Rs.24/- per kg= Rs.720.00 as basal dose.		0	0	972	972
7	Silvicultural Operation involving clearance of weeds, cutting of climbers, singling of shoots etc.	Sep/ Oct	15	3202.5	0	3202.5
8	Soil Conservation Measures (Staggered trenches of dimension 2m X 0.5m X 0.5m @60 nos per ha) or its equivalent	Sep/ Oct	20	4270	0	4270
9	Fireline Tracing and Inspection path	Feb/ Mar	3	640.5	0	640.5
10	Watch & ward	Aug-Mar	7	1494.5	0	1494.5
11	Contingency and Unforeseen Expenditures		0	0	353	353
	Sub-Total		104	22204	4200	26404

2 ND YEAR OPERATION						
1	Casualty Replacement including cost of seedling, carriage and planting	Jul/ Aug	3	640.5	567	1207.5
2	Complete weeding and cultural operations	Sep/ Oct	6	1281	0	1281
3	Soil working and manuring	Sep/ Oct	6	1281	0	1281
4	Cost of Fertilizer and insecticide (a) Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 (b) Granular Insecticides 5 gms/ plant for 60 plants 300 gms @Rs.80/- per Kg= Rs.24:00	Sep/ Oct	0	0	2424	2424
5	Soil Conservation Measures (Renovation of staggered trenches etc.)	Sep/ Oct	8	1708	0	1708
6	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
7	Watch & ward (whole year)	Apr/ Mar	7	1494.5	0	1494.5
8	Contingency and Unforeseen Expenditures		0	0	193	193
	Sub-Total		31	6618.5	3184	9802.5
3 RD YEAR OPERATION						
1	Complete weeding and cultural operations	Aug/ Sep	3	640.5	0	640.5
2	Soil working	Aug/ Sep	3	640.5	0	640.5
3	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
4	Watch & ward (whole year)	Apr-Mar	7	1494.5	0	1494.5
	Sub-Total		14	2989	0	2989
4 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
5 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
6 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
7 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
8 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
9 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5

2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
10TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
	Grand Total		195.5	41739.25	8684	50423.25

ABSTRACT

Year	Person days	Labour	Material (Rs)	Total (Rs)
0th Year	25.5	5444.25	1300	6744.25
1st Year	104	22204	4200	26404
2nd Year	31	6618.5	3184	9802.5
3rd Year	14	2989	0	2989
4th Year	3	640.5	0	640.5
5th Year	3	640.5	0	640.5
6th Year	3	640.5	0	640.5
7th Year	3	640.5	0	640.5
8th Year	3	640.5	0	640.5
9th Year	3	640.5	0	640.5
10th Year	3	640.5	0	640.5
Total	195.5	41739.25	8684	50423.25
Total Cost Norm per ha.				50423.25
Total Cost of plantation for 15.0 ha				7,56,348.75

B. ADDITIONAL COST PROPOSED FOR SMC WORKS

1	SMC measures- LBCD structure of dimension 10' x 10' x 5' @Rs. 6985.83/-(cost of Transportation within a lead of 5.0 km i.e. Rs. 1548.36+ cost of construction Rs.5437.47) per LBCD structure for 15nos LBCD structures	1,04,787.45
2	Staggered trenches(2.5mt x 0.5mt x 0.5 mt) @60MD per ha over15.0 ha @ Rs. 12810 per ha.	1,92,150.00
3	Additional incentive (3% of cumulative expenditure) for VSS/Fr./FG proposed for more than 80% survival and very good growth during 4 th year of maintenance as per recommendation of DFO and RCCF. @Rs. 1379/- per ha for 15.0 ha.	20,685.00
4	Additional EPA expenses if implemented through VSS at rate Rs.1200/- in 0 th Year, Rs.2400/- in 1 st Year, Rs.1800/- in 2 nd Year, Rs.600/- in 3 rd Year, Rs.600/- in 4 th Year, Rs.600/- in 5 th Year, Rs.600/- in 6 th year, Rs.600/- in 7 th year, Rs.600/- in 8 th year, Rs.600/- in 9 th year, Rs.600/- in 10 th year @ Rs. 10200/- per ha for 15.0 ha	1,53,000.00
	Total	4,70,622.45

CHAPTER- V

PROVISION OF FUNDS

TOTAL COST OF THE SCHEME FOR GAP PLANTATION, SOIL & MOISTURE CONSERVATION TO RESTOCK AND REJUVANATE DEGRADED FOREST

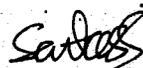
	Cost breakups	Value in Rs .
1.	Cost of Plantation over 15.0ha @ Rs.50,423.25/- per ha.	7,56,348.75
2.	Total additional cost for Soil and Moisture Conservation jobs	4,70,622.45
	Total	12,26,971.20
3.	Add 20% escalation	2,45,394.24
	Total	14,72,365.44 14,72,366.00/- (say)
(Rupees Fourteen lakhs seventy two thousand and three hundred sixty six only)		

The total cost of the implementation of the scheme will be Rs.14,72,365.44 (Rupees Fourteen lakhs seventy two thousand and three hundred sixty six only) as detailed above , which will be borne by user agency at their Project Cost .The User Agency shall be responsible for placement of the required funds to State Forest Department for implementation as per approved scheme. The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency .

Place : Bolani

Date :

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - 758 037 / सहायक खदान
SAI - RMD - Bolani, Odisha
बोली 758 037, केजहार, ओडिशा
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,
Office Seal
Divisional Forest Officer
Keonjhar Division

ANNEXURE – I

COST ESTIMATE OF SMC PROPOSALS

- (I) **Loose Boulder Check dams (LBCD)** Estimate of Loose Boulder Structure (LBCD), of size 10' x 10' x 5' (as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF &HoFF, Govt of Odisha .

Sl	Item	Quantity in cum	Rate Cost / per cum) in Rs	Cost per LBCD (Rs)
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms .	9.9	156.40	1548.36
3	Total required Labour	9.9	350.25	3467.47
4	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83
5	Total Cost of erecting 15nos of LBCD estimated for the site			1,04,787.45

- (II) **Staggered Contour Trench (SCT)**

Sl	Item	Mandays	Rate per manday in Rs	Cost of ST perha (Rs)
1	Staggered contour trench of size 2.5m x 0.5m x 0.5m) at the rate of 300 ST / ha (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum	60	213.50	12810.00
	Total Cost of SCT for 15.0ha estimated for the site			12810.00x15.0 ha = 1,92,150.00


S. KUMAR
 Deputy Manager (Civil)
 SAIL-RMD-BOM

Annexure-XI

Scheme
OF
DE-SILTING OF VILLAGE TANKS AND OTHER WATER BODIES
WITHIN FIVE KM FROM THE MINE LEASE BOUNDARY

in compliance to

Condition no – XXIV of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for
Diversion of 124,313 Hects of Sabik Kism Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



CHAPTER- I.

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, Tahasilof Keonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL . The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the

MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF & CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha . In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF & CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No. FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980, 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabik kisam forest land out of total 723.312 ha forest land (485.219 ha .+ 238.093 ha) located inside aforesaid ML area. While granting the In-principle approval, MoEF &CC,GOI has stipulated the following condition in Condition no- (xxiv) :

" The User Agency shall prepare a list of existing village tanks and other water bodies with GPS co-ordinates located within five km. from the mine lease boundary. This list is to be duly verified by the concerned Divisional Forest Officer. The User Agency shall regularly undertake desilting of these village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/water bodies . A detailed plan for desilting of identified ponds and water bodies to be prepared in consultation with forest department . and shall be submitted to MoEF & CC before Stage-II approval ."

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017, preparation of the scheme of de-silting of ponds and other water bodies has been

undertaken in consultation with the Forest Range Officer Barbil , for implementation of the scheme at the project cost .

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude $22^{\circ} 05' 12''$ N to $22^{\circ} 07' 42''$ N and longitude $85^{\circ} 19' 04''$ E to $85^{\circ} 23' 08''$ E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- Joda Barbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale; quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade. There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant , Loading plant and railway siding, Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes *Terminalia alata*, *Lagerstroemia perviflora*, *Anogeissus latifolia*, *Terminalia belerica*, *Syzygium cumini*, *Mangifera indica*, *Schleichera oleosa*, *Adina cordifolia*, *Pterocarpus marsupium*, *Bombax ceiba*, *Bridelia retusa*, *Madhuca indica*. The middle story is represented by *Syzygium cumini*, *Ougeinia ougenensis*, *Careya arborea*, *Treama orientalis*, *Emblica officinalis*, *Cassia fistula* etc. The shrubs and undergrowth are characterized by *Indigofera pulchella*, *Ardisia solenacea*, *Flemingia chhapar*, *Helicteres ixora* and *Clerodendron viscosum* etc. The prevailing climbers include *Bauhinia vahlii*, *Combretum decandrum* and *Beutia parviflora*. The grasses over the forest floor include *Chrysopogon aciculatus*, *Imperata cylindrica*, *Dicanthium cariccosum*, *Cynodon dactylon* etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowsable and xerophytic in habit.

DRAINAGE

The lease area is drained by Karo river flowing from SW to NE, passing through the lease. The lease area is also drained by a number of seasonal drainage channels flowing from SW to NE viz. Chapua nalla, Jhikaria nalla, Panposh nalla, Balagoda nalla & Limture nalla to join the Karo River. The Karo river (flowing from SW to NE) is the principal drainage

channel of the study area. The study area has a dendritic drainage pattern due to undulatory terrain of adjacent lease and the area forms part of Karo nadi sub-basin which is perennial by nature. The sub water shed where the project falls is drained mainly by Karo river.

CHAPTER- III

FACTORS FOR SILTATION , SELECTION OF PONDS & METHODOLOGY

Earthy matter, fine sand, or the like carried by moving or running water or stagnant water and deposited as a sediment cause deposition of silts . De-silting, is removal of these silt (fine grained clay/ bed soil) from the bed of pond / water bodies to be done mechanically.

FACTORS FOR SILTATION

Siltation is an inherent problem with ponds/village tanks, and almost all types of water reservoirs world over. Siltation occurs due to deposition or settling of soil eroded from the upper slope areas , shore line, decaying fallen leaves, grass and other vegetative materials and decomposed organic materials settled on pond bottoms. Soil erosion may be attributed as the primary factor responsible for pond siltation in this area. Higher gradient and excess rainfall are the most common reasons of soil erosion. Erosion of Soil occurs from the waste dumps, excavated areas and naturally denuded ground surface. However, looking into the current problem of siltation of the village tanks/ponds, the major factor is the erosion of the pond embankments along with air borne dust and decomposition of in-situ aquatic weeds like water hyacinth and other air borne vegetative materials falling into the pond. Air borne sand and dust along with other vegetative materials falling on the pond also add to the process of siltation. As the age of the ponds increase, new layers of silt accumulate on the older ones and the silt layers become thicker. Finally the depth of the pond decreases and it loses its water storage capacity. At this time it needs to be desilted to recover. The best practice against siltation is to de-silt the pond bottom at regular intervals as well as taking adequate preventive measures.

SELECTION OF VILLAGE TANKS & OTHER WATER BODIES

Information was collected from the village panchayats of Balagoda and Bolani for the location of the village ponds also. For the purpose selecting de-silting of ponds, as per the condition, a GPS survey of the above ponds within the buffer area 5 Kms radius from the boundary of the 6.90 sq miles Mining Lease was made , in consultation with Forest Range Officer Barbil . The GPS readings were projected on to the digitized topo sheet no 73 F/8 with the help of GIS softwares and

locations were plotted on the map . As per the GPS survey , 6 nos of village ponds and 2 nos of strem beds within the 5 km radius from ML boundary have been selected undertaking the de-silting jobs. In the western portion of the ML, lease of the same lessee exists and in the north – west there is Jharkhand Boundary , hence not considered . The total combined area of the village tanks and other water bodies is about 12,641 sqm area, which is to be covered in the scheme. Total length of embankment of the ponds needs to be handled is 1.022 Kms. . De-silting of these village tanks/Water bodies will be considered in phases. The location of the village tanks and other water bodies are shown in the enclosed map . The map is enclosed in **Annexure -II** .

LOCATION OF VILLAGE TANKS & OTHER WATER BODIES CONSIDERED FOR DESILTING					
SI	Pond sl no	Village	Longitude	Latitude	Dimension
1	Pond-1	Dumurda	85°20'04.63"	22°04'37.09"	55m x 43 m
2	Pond-2	Shankhjar	85°20'51.89"	22°04'15.57"	50m x 35 m
3	Pond-3	Bhaliadih	85°19'54.65"	22°03'47.98"	80m x 38m
4	Pond-4	Bhaliadih	85°19'24.03"	22°03'41.92"	47m x 38m
5	Pond-5	Limtur	85°21'12.49"	22°07'39.63"	20m x 15m
6	Pond-6	Balagoda	85°20'03.11"	22°06'05.79"	50m x 40m
7	Streams	Bolani & Balagoda	85°19'45.69"	22° 5'11.57"	70 m x 20 m

METHODOLOGY

It is proposed to carry out the de-siltation of the identified ponds as above annually, preferably in the dry months of the summer when the ponds shall dry up exposing the silts. The dried silt shall be removed mechanically based on the ground condition. In case of mechanical removal of silts, small excavators such as back-hoe / small hydraulic shovels or pay loader, depending upon the quantity of silt accumulation shall be used. As silt accumulation occurs in the basal area of the tank/water bodies , the siltation area has been calculated considering 20% reduction in the arial area . It is proposed that the ponds and water bodies shall be de-silted by mechanical means by deploying back hoe excavator and tipper . The ponds shall be allowed to dry up completely during the early summer i.e. during March and April followed with desiltation in the above described manner. Activities like pond bank strengthening and stabilization by way of earth work, grass seeding shall be taken up in the first year of de-silting followed by their management in successive four years.

CHAPTER IV

PROVISION OF FUNDS

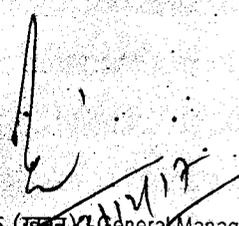
TOTAL COST OF THE SCHEME FOR DE-SILTING OF VILLAGE TANKS & WATER BODIES

SI	Item of Work	Cost (Rs)
1	Cost of de-silting of village tanks and other water bodies as per estimate enclosed at Annexure-I	47,38,071.63
2	Cost of sowing grass seeds on the de-silted material and nallah embankments/pond banks (Lump sum)	15,00,000.00
	TOTAL	62,38,071.63
	Escalation 20%	12,47,614.32
	Grand Total	74,85,685.96 or Say 74,85,686.00
	Seventy Four Lakhs Eighty Five thousand six hundred eighty six only	

The total cost of the implementation of the scheme will be **Rs. 74,85,686.00 (Seventy Four Lakhs Eighty Five thousand six hundred eighty six only)** as detailed above which will be borne by user agency at their Project Cost . The cost of the scheme may subject to increase in amount considering the change in location of ponds for compliance of conditions , increase in materials and labour charges which will also be borne by the user agency . The work shall be executed by the CSR wing of User Agency with outsourced man and machinery . The entire work shall be carried out through close co-ordination with the Forest Department .

Place : Bolani

Date :


महाप्रबंधक (खनन) General Manager (Mines)
सेल ऑफ ग्रान्टी एंड वॉटर डेवेलपमेंट्स खदान
SAIL-RMD-Bolani Ores Mines
Bolani Ores Mines
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,
Office Seal
Divisional Forest Officer,
Keonjhar Division

Certificate

Certified that the village tanks and water bodies included in the scheme for de-silting is duly verified by the undersigned.

Place: Keonjhar

Date:

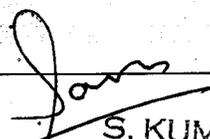
Sadas

Divisional Forest Officer,
Keonjhar Division

ESTIMATE FOR DE-SILTING

Annexure- I

SL. NO.	DSR ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (xceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed in all kinds of soil.	CUM	13341.00	130.80	1745002.80
2	1.1.2	Disposing of the excavated earth etc. by mechanical transport including loading unloading etc. all complete to a lead of 1 KM	CUM	5269.00	82.78	436167.82
3	4.1.8	Providing and laying in position cement concrete 1:4:8 (1Cement: 4 fine sand: 8 graded stone aggregate 40 mm nominal size) excluding the cost of centring and shuttering - All work upto plinth level	CUM	60.00	3593.30	215598.00
4	4.1.3	Providing and laying in position cement concrete 1:2:4 (1Cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) excluding the cost of centring and shuttering - All work upto plinth level.	CUM	7.20	4514.05	32501.16
5	7.1.1	Random Rubble Masonry with hard granite stone boulder in foundation and plinth upto superstructure with cement mortar 1:6 (1 cement: 6 coarse sand)	CUM	150.00	3059.20	458880.00
6	6.1.2	Brick work with F.P.S. bricks of class designation 75 in foundation 75 in foundation & plinth in cement mortar 1:6 (1 Cement : 6 Coarse sand).	CUM	60.00	3306.55	198393.00
7	11.3.1	Cement Concrete flooring 1:2:4 (1 Cemnt : 2 Coarse Sand : 4 Graded stone aggregate) 40MM Thick with 20MM nominal size stone aggregate finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.	SQM	288.00	280.05	80654.40
8	13.6.2	20 mm cement plaster with cement mortar 1:6 (1 cement : 6 coarse sand).	SQM	480.00	169.50	81360.00
9	13.18	Neat Cement punning.	SQM	144.00	31.10	4478.40
10	13.61.1	Painting with Synthetic enamel paint of approved brand and manufacture like Dulux / Shalimar / Johnson / Neorolac orequalant of required colour to give an even shade, two or more coats on new work..	SQM	420.00	53.85	22617.00
11	2.28.1	Surface dressing All kinds of soil of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5m :	SQM	17563.00	9.35	164214.05
12	15	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	L.S.	6.00	10000.00	60000.00
13	13.33.2	Pointing on stone work with cement mortar 1:3(1cement:3Fine cement) for flush/ ruled pointing	SQM	2300.00	201.85	464255.00
14	16.11	Dry stone pitching 22.5 CM thick with hard stone boulder including supply of stone with well packing & preparing surface complete	SQM	2300.00	336.50	773950.00
TOTAL VALUE OF DE-SILTING JOBS						Rs. 47,38,071.63


S. KUMAR
 Deputy Manager (Civil)
 SAIL BMD BO

MEASUREMENT

VILL. POND - 1

DESILTING OF POND : Dumurta

Sl.No	Description of items	Unit	No	Length	Breadth	Heihtg	TOTAL
1	Earth work excavation ----- A. pond upper side	cum	1	55.00	43.00	1.00	2365.00
						total(cum)	2365.00
						say	2365.00
2	Disposing of excavated Earth A 25% of excavated earth	cum	0.25	X	2365.00		591.25
						total(Cum)	600.00
						say	600.00
3	priving & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
		"	2	8.00	4.00	0.10	6.40
	Bottom Platform	"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	priving & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ---- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
		"	2	8.00	0.40	0.65	4.16
	wall	cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruig in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	55.00		6.00	1320.00
	Embanken ment (Both side)	sqm	4	43.00		6.00	1032.00
	Top	"	1	196.00		4.50	882.00
						total(sqm)	3234.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

S. S. KUMAR
Deputy Manager (Civil)
SAL-POND-SON

MEASUREMENT

VILL. POND-2

DESILTING OF POND Shankhijhar

Sl.No	Description of items	Unit	No	Length	Breadth	Heihgt	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	50.00	35.00	1.00	1750.00
						total(cum)	1750.00
						say	1750.00
2	Disposing of excavated Earth A 25% of excavated earth	cum	0.25	X	1750.00		437.50
						total(Cum)	438.00
						say	438.00
3	priving & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
		"	2	8.00	4.00	0.10	6.40
	Bottom Platform	"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	priving & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
		"	2	8.00	0.40	0.65	4.16
	wall	cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	50.00		6.00	1200.00
	Embanken ment (Both side)	sqm	4	35.00		6.00	840.00
	Top	"	1	170.00		4.50	765.00
						total(sqm)	2805.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

S. KUMAR
Deputy Manager (Civil)
SAIL-RANDOLPH

MEASUREMENT

VILL. POND-3

DESILTING OF POND Bhaliadih

SL.NO	Description of items	Unit	No	Length	Breadth	Heiht	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	80.00	38.00	1.00	3040.00
						total(cum)	3040.00
						say	3040.00
2	Disposing of excavated Earth A 40% of excavated earth	cum	0.4	X	3040.00		1216.00
						total(Cum)	1216.00
						say	1216.00
3	providing & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
	Bottom Platform	"	2	8.00	4.00	0.10	6.40
		"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	providing & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
	wall	"	2	8.00	0.40	0.65	4.16
		cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	80.00		6.00	1920.00
	Embanken ment (Both side)	sqm	4	38.00		6.00	912.00
	Top	"	1	236.00		4.50	1062.00
						total(sqm)	3894.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

S. KUMAR
Deputy Manager (Civil)
SAL-RRD-001

MEASUREMENT

VILL. POND-4

DESILTING OF POND Bhaliadih

SL.NO	Description of items	Unit	No	Length	Breadth	Heihgt	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	47.00	38.00	1.00	1786.00
						total(cum)	1786.00
						say	1786.00
2	Disposing of excavated Earth A 25% of excavated earth	cum	0.25	X	1786.00		446.50
						total(Cum)	450.00
						say	450.00
3	privinging & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
		"	2	8.00	4.00	0.10	6.40
	Bottom Platform	"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	privinging & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
		"	2	8.00	0.40	0.65	4.16
	wall	cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	47.00		6.00	1128.00
	Embanken ment (Both side)	sqm	4	38.00		6.00	912.00
	Top	"	1	170.00		4.50	765.00
						total(sqm)	2805.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

Jain
S. KUMAR
District Engineer (Civil)
JALAPA

MEASUREMENT

VILL. POND -5

DESILTING OF POND Limtur

SL.NO	Description of items	Unit	No	Length	Breadth	Heihtg	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	20.00	15.00	1.00	300.00
						total(cum)	300.00
						say	300.00
2	Disposing of excavated Earth A 25% of excavated earth	cum	0.25	X	300.00		75.00
						total(Cum)	75.00
						say	75.00
3	providing & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
		"	2	8.00	4.00	0.10	6.40
	Bottom Platform	"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	providing & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
		"	2	8.00	0.40	0.65	4.16
	wall	cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	20.00		6.00	480.00
	Embanken ment (Both side)	sqm	4	15.00		6.00	360.00
	Top	"	1	70.00		4.50	315.00
						total(sqm)	1155.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S			1.00

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S. KUMAR
Deputy Manager (Civil)
SAIL-RIND-5044

MEASUREMENT

DESILTING OF POND BALAGODA

VILL. POND - 6

SL.NO	Description of items	Unit	No	Length	Breadth	Heihgt	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	50.00	40.00	1.00	2000.00
						total(cum)	2000.00
						say	2000.00
2	Disposing of excavated Earth A 30% of excavated earth	cum	0.3	X	2000.00		600.00
						total(Cum)	600.00
						say	600.00
3	providing & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
	Bottom Platform	"	2	8.00	4.00	0.10	6.40
		"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	providing & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R. Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
	wall	"	2	8.00	0.40	0.65	4.16
		cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruig in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	50.00		6.00	1200.00
	Embanken ment (Both side)	sqm	4	40.00		6.00	960.00
	Top	"	1	180.00		4.50	810.00
						total(sqm)	2970.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

S. KUMAR
Deputy Manager (Civil)
SAIL-RIND-SOM

MEASUREMENT

W.B-T (JHIKARIA
STREAM)

DESILTING OF STREAM BED

Sl.NO	Description of items	Unit	No	Length	Breadth	Height	TOTAL
1	Earth work excavation ----- A. STREAM BED size	cum	1	70.00	20.00	1.50	2100.00
						total(cum)	2100.00
						say	2100.00
2	Disposing of excavated Earth 90% of excavated earth	cum	0.9	X	2100.00		1890.00
						total(Cum)	1890.00
						say	1890.00
3	Area dressing and levelling -----	sqm	2	70.00	5.00		700.00
						total(sqm)	700.00


S. KUMAR
Deputy Manager (Civil)
SAIL-RMD-301A

Annexure-XII

PROCEEDING OF THE
DISTRICT LEVEL COMMITTEE MEETING
ON FOREST RIGHTS
HELD ON 07.04.2016 AT 10 AM IN THE
MINI CONFERENCE HALL OF COLLECTORATE
KEONJHAR

**PROCEEDING OF THE DISTRICT LEVEL FOREST RIGHTS COMMITTEE
MEETING HELD ON 07.04.2016 AT 10.00 A.M. IN MINI CONFERENCE HALL
OF THE COLLECTORATE, KEONJHAR**

District Level Forest Rights Committee meeting was held on 07.04.2016 at 10 AM in the Mini conference Hall of Collectorate, Keonjhar under the Chairmanship of Collector, Keonjhar. The list of members/participants present in the meeting is attached in Annexure (I).

The Agenda wise discussion made as follows:-

1. CONFIRMATION OF PROCEEDING OF THE LAST D.L.C. MEETING HELD ON 8.10.15.

The proceedings of the last D.L.C. meeting held on 08.10.2015 was circulated among all the members vide Memo No. No. 2923 /ITDA(K) FRC/dtd. 28.10.2015. As no objection received from any quarter, the said proceeding is confirmed.

2. DISPOSAL OF PENDING IFR CLAIMS

The PA, ITDA, apprised the house that 2237 nos. of Individual Forest Rights claims are received from different blocks duly approved by the SDLC. The details block wise claims are given below for approval.

Sl. No	Name of the Block	Pending claims as reported by WEOs	Claims received
01	JDA,Gonasika	0	-
02	Telkoi	791	573
03	Saharpada	2043	86
04	Patna	4605	182
05	Keonjhar	211	72
06	Ghatgaon	6138	597
07	Harichandanpur	5824	287
08	Banspal	3800	259
09	Hatadihi	750	-
10	Anandpur	2341	-
11	Ghasipura	2037	67
12	Joda	674	15
13	Jhumpura	610	17
14	Champua	645	82
	Total	30469	2237

The Chairman has expressed his displeasure for slow progress in disposal of pending cases. The Nodal Officer, FRA has informed in the house that the Govt. in their letter No.5893/SSD Dt.26.3.16 have instructed that all the eligible pending claims shall be examined and approved at the Gram Sabha / SDLC & DLC level by 15th April,2016.


Project Administrator
I.T.D.A. Keonjhar

Further, the Collector has directed to all WEOs to personally contact the concerned R.Is and Amins as per Action Plan and complete the entire process by end of April,2016 positively. All Tahasildars were also requested to spare their R.Is/ Amins to extend necessary cooperation to complete the pending IFR claims in mission mood by end of this month. The house have directed to all Sub-Collectors-cum-Chairman, SDLC to look this matter personally.

After a thread bare discussion and detailed scrutiny, the Committee has approved the following claims under individual rights.

Name of the Sub-Divn.	No. of cases	Area	Out of which P.T.G.		Remarks
			No. of cases	Area	
Keonjhar	Ind. PF.- 2056 R.F.- - Total- 2056	Ac. -1019.73 Ac. - Ac. 1019.73	=	-	Details are Annx.(B)
Champua	Ind. PF.- 114 R.F.- Total- 114	Ac. -35.91 Ac. - Ac. 35.91	=	-	Details are Annx.(C)
Anandapur	Ind. PF.-67 R.F.- Total- 67	Ac. -6.05 Ac. - Ac. 6.05	=	-	Details are Annx.(A)
GRAND TOTAL	Ind .P.F.-2237 R.F. - Tot.- 2237	Ac. 1061.69 Ac. -Ac.1061.69	=	-	

After approval, the cumulative progress under IFR of Keonjhar District as on 07.04.2016 is given below.

Claims approved By 08.10.2015	Area in acre by 08.10.2015	Claims approved today i.e 07.04.2016	Area in acres	Total claims approved	Total Area in acre	Total PVTG claims approved	Total PVTG area
49830	43095.385	2237	1061.69	52067	44157.075	4907	6126.76

3. APPROVAL OF CFR CLAIMS SUBMITTED BY SDLC

The PA, ITDA, told the house that 236 nos. of CFR claims received from SDLCs have been forwarded to DFO, Keonjhar (212 nos.) & DFO (W/L) Anandapur (24 nos.) for further verification. The DFO, Anandapur has informed to the house that out of 24 claims, 07 CFR records have been returned to Ghasipura Block with objection that the claims have not been prepared as per FRA rule. Out of remaining 17 nos. cases records, the DFO, (W/L) Anandapur has submitted only 8 nos. of eligible CFR after joint verification. The DFO, Keonjhar has submitted 172 nos. of CFR Cases out of 212 after verification. The same is placed at Annexure (D) for approval.

After a thread bare discussion and detailed scrutiny, the Committee approved the 180 nos. of claims under Community Forest Resources Right (CFR).


 Project Administrator
 I.T.D.A. Keonjhar

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Besides above, 07 nos. of new CFR claims have been received from SDLC, Keonjhar.

After a detailed discussion and scrutiny, the Committee suggested that all 07 CFR cases records to be forwarded to DFO, Keonjhar for further verification.

Sl.No	Name of the Block	Name of the village	Purpose	Area/Kisam	Date of approval in SDLC
01	Ghatgaon	Chhataraypur	-	Ac.194.4	11.12.15
02	-do-	Gopinathpur	-	Ac.459.56	11.12.15
03	Patna	Jodichatar	-	Ac.70.02	11.12.15
04	Telkoi	Siriabahal	-	Ac.2.47	11.12.15
05	Banspal	Barakala	-	Hc.24.3450	11.12.15
06	-do-	Dori	-	Hc.48.0	11.12.15
07	Keonjhar	Alanapada	-	Ac.5.25	11.12.15

Further, PA, ITDA told in the house that as per Rule 12 B (3) of the Amended FR Rules, it is required that CFR rights relating to protection, regeneration, conservation and management shall be recognized in all the villages with Forest dwellers and that CFR titles shall be issued to them. Rule 12(4) further states that in case where no CFR rights are recognized in a village, the reasons for the same shall be recorded by the DLC. The house has directed to all field functionaries to take sincere steps for settlement of CFR in every villages.

Community rights

PA, ITDA told that One Community right claims have been received from SDLC, Anandapur. The detail is given below:

Sl.No	Name of the Block	Name of the village	Purpose	Area/Kisam	Date of approval in SDLC
01	Hatadihi	Anara	Const. of GP Building /Angawbadi centre/ Community centre/Rural water supply	Ac.1.00 Gramya Jungle	10.12.15

The DFO, Anandapur in his letter No.1184/dt.06.04.2016 has intimated to the Collector, Keonjhar-cum-Chairman, DLC that one application has been submitted by BDO, Hatadihi on 05.10.2015 before the Range Officer, Hadagarh for diversion of 1.00 Ac. of Gramya Jungle land in Anra Mouza for creation of developmental facilities like Community Centre, Anganwadi Kendra, Rajiv Gandhi Seva Kendra & GP Office building in newly created Anra Gram Panchayat for benefit of the people. The Anra Mouza Gram Sabha in its meeting held on 27.7.15 has recommended for diversion of the same. A writ petition bearing WP (C) No.22080/ 2014 has been filed in the Hon'ble High Court of Odisha by Sri Anirudha Nayak & Others against the Collector, Keonjhar and others for illegal construction of Rajiv Gandhi Seva Kendra on the above land. The


Project Administrator
I.T.D.A. Keonjhar

Hon'ble High Court on 18.11.2014 have been pleased to order in the above matter that "As an interim measure, no construction shall be made from the fund, allotted for Rajiv Seva Kendra Yojana till the next date". The matter was discussed in the DLC and the house has told the DFO, Ananadapur to approve diversion proposal as per FRA rule. Further, the Sub-Collector was requested to submit necessary PWC before Hon'ble High Court early for vacation of stay order.

4. DISPOSAL OF REJECTION/ APPEAL CASES

During the last review meeting held on 04.03.2016, the Collector has directed to all ADWOs/WEOs should personally contact all the IFR the claimants whose cases are rejected and facilitate them to appeal in the proper forum & complete the process within stipulated date i.e by 31.3.16. The PA, ITDA-cum-Nodal Officer, FRA told in the house that sufficient appeal forms have already been distributed to the ADWOs/WECs to receive appeal and submit to SDLC and DLC respectively. But till date no information regarding appeal cases are received by this office.

The Collector has directed once again to all WEOs/ADWOs to receive appeal from the persons whose case has been rejected and complete the appeal process in proper forum by end of April, 2016 positively as Govt. is taking serious note about it.

5. SUBMISSION OF SATURATION CERTIFICATE

As per decision in the review meeting, all WEOs have certified that there is no eligible individual claim applications available for filling claims & submitted fully saturation Certificate.

6. HABITAT RIGHTS FOR PVTGS

The matter has been discussed in the meeting. All present have opined that Govt. may be moved for deployment of experts (NGOs) to facilitate district administration for settling of Habitat Rights for PVTGs.

7. ENGAGEMENT OF AMINS WORKING IN FRA WORK

As per decision taken in the last DLC meeting, the Sub-Collectors-cum-Chairman, SDLC & PA, ITDA, Keonjhar have re-engaged following nos. of Amins & DEOs. The house have been pleased to approved ex-facto.

- 1) Sub-Collector, Anandapur - 08 Amins
- 2) Sub-Collector, Keonjhar - 15 Amins
- 3) Sub-Collector, Champua - 06 Amins
- 3) ITDA, Keonjhar . 02 DEOs

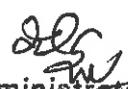

Project Administrator
I.T.D.A. Keonjhar

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8. DIVERSION OF FOREST LAND TOWARDS NON-FOREST ACTIVITIES- ISSUANCE OF CERTIFICATE THEREOF.

The PA, ITDA told the house that following 7 nos. of diversion proposals have been received from the Sub-Collector-cum-Chairman, SDLC , Champua & Keonjhar for diversion of Forest land towards Non-Forest activities- Issuance of certificate thereof.

Sl.No	Name of the User's Agency	Purpose	Name of the Sub-Collector	Mouza covering	Name of the Tahasil	Area involved
1.	BDO, Harich.pur	Const. of road from Masinajodi to Gothabhuin under Revenapalaspal GP		Masinajodi & Bangursuni	Harichan danpur	0.2225 Ha.
2.	Jagannath Steel & Power Ltd.	Alignment of pipe line for withdrawal of water from Karo river to fulfil the water requirement	Champua	Uliburu	Barbil	0.197 Ha.
3.	M/s Bhusan Steel Limited	For laying of Iron slurry pipe line system	Keonjhar/ Champua	Nayakote/Dhanurjopypur/Patuakudar/Lunagadia/Kasia/Balavadrapur	Champua	21.943 Ha.
				Fuljhar/Talaraiguda/Dudhposi/Uparraiguda/Kamagaon/Kumundi(Kha)/Khajurimundi/Khuntakata/Kasada/Baitaranibhuyan/Kuanra/ Kanjipani/Nippo/ Panasanasa/Haladipani/Uparjagar/Talajagar	Banspal	
				Oriya / Ramachandrapur/Telkoi/ Gundurijoda/Khuntapada/Kuladera/Dullavpur/Baleswar/Bhimkand / Bhandanjhari RF/Akula/ Kalima/Sirigida/ Bimala/Kundheihata	Telkoi	
4.	M/s Mideast Integrated Steels Limited (MESCO STEEL)	Road Connectivity and safety activity to Roida-I Iron Ore Mines	Champua	Sidhamatha RF	-do-	3.875 Ha.


 Project Administrator
 I.T.D.A. Keonjhar

5.	M/s Mideast Integrated Steels Limited (MESCO STEEL)	Mining Activities & Safty Zone	-do-	Sidhamatha RF	-do-	60.571 Ha
6.	Steel Authority of India, Bolani Iron Ore	Mining Activities	Champua	Bolani / Balagoda/Limitur and Karo RF	Barbil	506.22 Ha.
7.	Orissa Sponge Iron & Steel Limited	Mining and allied activities in Malangtoli Iron Ore Mines	Keonjhar	Kadakala	Banspa	34.83 Ha.

All the above 7 proposals were discussed and examined thoroughly by the committee and decision taken in each case is given below:

(A) BDO, HARICHANDANPUR

The BDO, Harichandanpur has submitted a proposal for diversion of **0.225 Ha.** of Forest land under the provision of FRA for Construction of road from Masinajodi to Gothabhuin under Rebana Palaspal GP before the DFO, Anandapur. The DFO, Anandapur has returned the proposal to the DLC with remark that the proposed site consists of Forest type lands under Revenue Deptt. Jurisdiction with a request that DLC may consider it and instructions be given to the Revenue authorities for record correction.

The house decided to send the proposal to the Tahasildar, Harichandanpur for necessary correction.

(B) SHREE JGANATH STEEL & POWER LIMITED

The General Manager, Shree Jagannath Steel & Power Limited has submitted a proposal vide his letter Dt. 26.11.2015 to the Collector & Dist. Magistrate, Keonjhar for issue of certificate for forest area of **0.197 Ha.** under Forest Right Act, 2006 for alignment of pipe line through village Hayarpur, Ulibur RF and village Ulibur for withdrawal of water from KARO river to fulfill the water requirement of Shree Jagannath Steel & Power Limited. The District Office instructed to the PA, ITDA, Keonjhar-cum-Dist. Nodal Officer, FR vide letter No. 84/Rev. dt. 11.01.2016 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area involved in the project and forward your findings in the prescribed Format -I specified in this regard within the stipulated period. The PA, ITDA, Keonjhar has forwarded the proposal to the BDO, Joda vide letter No. 127/ITDA Dt. 19.01.2016 with a request to enquiry the matter on settlement of rights under FRA and submit your report in Form No. I for Linear project to SDLC, Champua with copy to Tahasildar, Barbill. After approval of SDLC meeting on 26.03.2016 the Sub-Collector, Champua-cum-Chairman, SDLC forwarded findings in Form No. (1). The details of village wise area as follows :-

Block	Tahasil	Village	Area
Joda	Barbil	Uliburu / Hayarpur	0.197 Ha.


Project Administrator
I.T.D.A. Keonjhar

Accordingly the Sub-Collector, Champua has communicated the inquiry report in Form-I meant for Linear Projects with Joint. Signature of WEO, Joda / BDO, Joda and Tahasilar, Barbil and also certify that :-

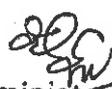
- i) The complete process for identification and settlement of rights under the FRA has been carried out for the entire 0.197 hectares of forest land proposed for diversion.
- ii) Recognized rights of PTG or PAC are not being affected in respect of proposed diversion of 0.197 Hc. of Forest land in Village Uliburu and Hayarpur.

The case was discussed and examined thoroughly by the DLC and approved for issuance of certificate in favour of Shree Jagannath Steel & Power limited.

(C) BHUSAN STEEL LIMITED

The Asst. Vice President (Projects), Bhusan Steel Limited. has submitted a proposal vide his letter Dt.08.07.2015 to the Collector & Dist. Magistrate, Keonjhar for issue of certificate for forest area of 21.943 Ha. under Forest Right Act, 2006 for laying of Iron slurry Pipe Line system. The District Office instructed to the PA, ITDA, Keonjhar-cum-Dist. Nodal Officer, FR vide letter No.1807/Rev. dt. 01.08.2015 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area involved in the project forward your findings in the prescribed Format specified in this regard within the stipulated period. The PA, ITDA, Keonjhar has forwarded the proposal to the BDO, Banspal/ Telkoi/ Jhumpura vide letter No.2164/ITDA Dt.07.08.2015 with a request to enquire the matter on settlement of rights under FRA and submit your report in Form No.I for Linear project to concerned SDLC, with copy to Tahasildars concerned. After approval of SDLC meeting held on 11.12.2015 the Sub-Collector, Keonjhar -cum-Chairman, SDLC forwarded findings in Form No.(1). Similarly the Sub-Collector, Champua-cum-Chairman, SDLC has also forward his findings in Form No.(I) after approval in SDLC held on 26.3.16. The details of village wise area as follows :-

Block	Tahasil	Village	Area
Jhumpura	Jhumpura	Nayakote/Dhanurjoypur/Patuakudar/ Lunagadia/Kasia/ Balavadrapur	2.286 Ha.
Banspal	Banspal	Fuljhar/ Talaraiguda/ Dudhposi/ Uparraiguda/ Kamagaon/ Kumundi(Kha)/ Khajurimundi/ Khuntakata/ Kasada/ Baitaranibhuyan/ Kuanra/ Kanjipani/ Nippo/ Panasanasa/ Haladipani/ Uparjagar/ Talajagar	11.406 Ha
Telkoi	Telkoi	Oriya / Ramachandrapur/Telkoi/ Gundurijoda/ Khuntapada/ Kuladera/ Dullavpur/ Baleswar/ Bhimkand / Bhandanjhari RF/ Akula/ Kalima/ Sirigida/ Bimala/ Kundheihata	8.251 Ha.
		TOTAL	21.943 Ha.


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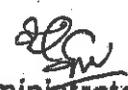
Accordingly the Sub-Collector, Keonjhar has communicated the inquiry report in Form-I meant for Linear Projects with Joint. Signature of concerned WEOs/ BDOs/ Tahasildars and also certified that recognized rights of PTG or PAC are not being affected in respect of proposed diversion of 8.251 Hc. of Forest land in Telkoi Block and 11.406 Ha. in Banspal Block. The proposal has been approved in the SDLC meeting on 11.12.2015.

The Sub-Collector, Champua has communicated the inquiry report in Form-I meant for Linear Projects with Joint. Signature of concerned WEO/ BDO/ Tahasildar and also certified that recognized rights of PTG or PAC are not being affected in respect of proposed diversion of 2.286 Ha. Hc. of Forest land in Jhumpura Block. The proposal has been approved in the SDLC meeting on 11.12.15 with following remarks

"The SDLC, Champua has reported that, though the complete process of identification and settlement of rights under the FRA said to has been carried out in the entire area of 2.286 Hc. under Jhumpura Tahasil, on spot enquiry it is found there are some left out cases of ST people who are still occupying the land and interested for getting rights as per norms and conditions of FRA Act. On further enquiry it is seen the relevant registers pertaining to FRA are not properly maintained or even available with the FRA Committee for which detail verification could not be made and detail status of claimants under FRA could not be ascertained. However on interaction with the members of the FRA Committee it is ascertained that no application has yet been filed by the present claimant by the present claimant and kept pending for disposal with the Committee. The details of occupants has also enclosed by the SDLC as follows"


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Name of Village	Khata No	Plot No	Hal Kisam	Sabik Kisam	Area in Ac.	Note of possession in ROR	Present claimants
Lunagadia	31	12	Taila-II	Jungle	1.34	Banu Naik S/o- Jagu	Pada W/o- Jogendra Naik
	31	15	Taila-II	Jungle	0.43	Bhaja, Bana, Dasuru Naik S/o- Jagu Naik	Karuna, Narana, Pratapa Naik S/o- Bhaja Naik Pada W/o- Jogendra Naik Maheswar S/o- Dasar Naik
	31	40	Taila-II	Jungle	0.39	Dhanu, Benu Naik S/o- Fagu	Kapila S/o- Dhanu, Rabi, Kabi Amina Naik S/o- Benu
	31	46	Taila-II	Jungle	0.31	Bana Naik S/o- Jagu Naik	Pada W/o- Jogendra Naik
	31	72	Taila-II	Jungle	0.53	Dhanu Naik S/o- Fagu Naik	Kapila S/o- Dhanu Naik
Balavadrapur	81	442	Sarada-II	Jungle	0.26	Bholanath Mujiram S/o- Manglu Munda	Daulat S/o- Bholanath Munda Sikandar Palia S/o- Mojiram Munda
		865	Biali	Jungle	1.65	Dugru Kolha, Gomha, Masungu S/o- Parsu Kolha	Naga Kolha S/o- Musungu, Mina Basanta D/o- Duguru Koha Kalu Chhabi, Masi Kolha S/o- Gomha Kolha
		852	Sarada-II	Jungle	0.46	Sonia Kolha S/o- Langala	Mohona, Baigiram Munda S/o- Langala
		814/1109	Taila-I	Jungle	2.38	Budhu, Pandu, Sanabandshi Kolha S/o- Gelta Kolha, Roya Kolha S/o- Genda	Budhu, Pandu, Sanabandshi Kolha S/o- Gelta Kolha, Roya Kolha S/o- Genda
		843	Sarada-II	Jungle	0.13	Langal Kolha S/o- Gomha Kolha	Mohona Baigiram Munda S/o- Langala
Kasia	104	81	Taila-II	Jungle	0.26	Sanmanga Munda S/o- Kange Munda	Kuni Munda W/o- Disu Sidhu Munda S/o- Sanamanga Sita Munda W/o- Sankuru
	104	84	Sarada-III	Jungle	1.63	Sanmanga Munda S/o- Kange Munda	Kuni Munda W/o- Disu Sidhu Munda S/o- Sanamanga Sita Munda W/o- Sankuru
	104	116	Sarada-III	Jungle	0.26	Sadana Munda, Sidharam Munda S/o- Majhi	Sadana Munda S/o- Majhi
	104	117	Sarada-III	Jungle	0.25	Sadana Munda, Sidharam Munda S/o- Majhi	Sadana Munda S/o- Majhi
	104	693	Sarada-III	Jungle	0.80	Gardi Munda S/o- Jadumani	Ghanashyam, Jadumani and Mana S/o- Gardi. Laba, Kiusha Munda S/o- Laxman Munda


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	104	699	Taila-I	Jungle	0.51	Mohanti Munda S/o- Jadumani Munda	Rajendra S/o- Mohanti Munda
Patua Kudar	75	138	Biali	Jungle	0.40	Somari Majhi D/o- Daman Majhi Sita Majhi W/o- Daman	Sita Majhi W/o- Daman
		179	Biali	Jungle	1.20	Bundua Naik S/o- Mangala	Radheshyam S/o- Anama Naik
		182	Taila-I	Jungle	3.96	Laxmidhar Mukhabana, Bhileswar Naik S/o- Rathi	Laxmidhar Bholeswar S/o- Rathi, Radhakanta Purna S/o- Mukhabana
		334	Sarada- III	Jungle	0.82	Laxmidhar Mukhabana, Bhileswar Naik S/o- Rathi	Laxmidhar Bholeswar S/o- Rathi, Radhakanta Purna S/o- Mukhabana
		329	Biali	Jungle	0.53	Benu,Manu,Fagu Naik S/o-Chandala	Manu S/o- Chandala Kalakara, Sadananda, Bhabagrahi Naik S/o- Benu, Bimala D/o- Fagu
		335	Sarada- III	Jungle	0.55	Bhara Naik S/o- Hadu	Pitabasa, Nityananda, Sitabasa Naik S/o- Late Bhara
		349	Taila-I	Jungle	0.33	Sambari Naik W/o- Madhu	Amruta Naik W/o- Anirudha
		350	Sarada- III	Jungle	0.38	Sambari Naik W/o- Madha	Amruta Naik W/o- Anirudha
		822/994	Sarada- II	Jungle	0.49	Bhakta Chandra, Sujana Prahlada S/o- Kartika	Bhakta Chandra, Sujana Prahlada S/o- Kartika
		825	Sarada- III	Jungle	0.81	Makuru Naik S/o- Askara	Makuru Naik S/o- Askara

The DLC has examined the case thoroughly and approved for issuance of certificate in favour of M/s Bhusan Steel limited with mentioning the observation of Tahasildar, Jhumpura at the time of issue of certificate.

(D) **M/s Mideast Integrated Steels Limited (MESCO STEEL)**

The Sub-Collector, Champua & Chairman, SDLC has submitted the SDLC Proceeding with documents relating to diversion of forest land for Mideast Integrated Steels Limited (MESCO Steel) for road connectivity and safety activity to Roida-I Iron Ore Mines. On scrutiny of Case records, it is found that the User's Agency in his letter No. 1/123 dt. 20.12.2014 has requested to the Collector & Dist. Magistrate, Keonjhar for issue of certificate for forest area of 3.875 Ha. under Forest Right Act, 2006 in favour of M/s MESCO Steel. The District Office instructed to the PA, ITDA, Keonjhar-cum-Dist. Nodal Officer, FRA vide letter No. 50/Rev. dt. 12.01.2015 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area


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Name of Village	Khata No	Plot No	Hal Kisam	Sabik Kisam	Area in Ac.	Note of possession in ROR	Present claimants
Lunagadia	31	12	Taila-II	Jungle	1.34	Banu Naik S/o- Jagu	Pada W/o- Jogendra Naik
	31	15	Taila-II	Jungle	0.43	Bhaja, Bana, Dasuru Naik S/o- Jagu Naik	Karuna, Narana, Pratapa Naik S/o- Bhaja Naik Pada W/o- Jogendra Naik Maheswar S/o- Dasuru Naik
	31	40	Taila-II	Jungle	0.39	Dhanu, Benu Naik S/o- Fagu	Kapila S/o- Dhanu, Rabi, Kabi Amina Naik S/o- Benu
	31	46	Taila-II	Jungle	0.31	Bana Naik S/o- Jagu Naik	Pada W/o- Jogendra Naik
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Balavadrapur	81	442	Sarada-II	Jungle	0.26	Bholanath Mujiram S/o- Manglu Munda	Daulat S/o- Bholanath Munda Sikandar Palia S/o- Mojiram Munda
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		814/1109	Taila-I	Jungle	2.38	Budhu, Pandu, Sanabandshi Kolha S/o- Gelta Kolha, Roya Kolha S/o- Genda	Budhu, Pandu, Sanabandshi Kolha S/o- Gelta Kolha, Roya Kolha S/o- Genda
		843	Sarada-II	Jungle	0.13	Langal Kolha S/o- Gomha Kolha	Mohona Baigiram Munda S/o- Langala
Kasia	104	81	Taila-II	Jungle	0.26	Sanmanga Munda S/o- Kange Munda	Kuni Munda W/o- Disu Sidhu Munda S/o- Sanamanga Sita Munda W/o- Sankuru
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		182	Taila-I	Jungle	3.96	Laxmidhar Mukhabana, Bhileswar Naik S/o- Rathi	Laxmidhar Bholeswar S/o- Rathi, Radhakanta Purna S/o- Mukhabana
		334	Sarada- III	Jungle	0.82	Laxmidhar Mukhabana, Bhileswar Naik S/o- Rathi	Laxmidhar Bholeswar S/o- Rathi, Radhakanta Purna S/o- Mukhabana
		329	Biali	Jungle	0.53	Benu,Manu,Fagu Naik S/o-Chandala	Manu S/o- Chandala Kalakara, Sadananda, Bhabagrahi Naik S/o- Benu, Bimala D/o- Fagu
		335	Sarada- III	Jungle	0.55	Bhara Naik S/o- Hadu	Pitabasa, Nityananda, Sitabasa Naik S/o- Late Bhara
		349	Taila-I	Jungle	0.33	Sambari Naik W/o- Madhu	Amruta Naik W/o- Anirudha
		350	Sarada- III	Jungle	0.38	Sambari Naik W/o- Madha	Amruta Naik W/o- Anirudha
		822/994	Sarada- II	Jungle	0.49	Bhakta Chandra, Sujana Prahlada S/o- Kartika	Bhakta Chandra, Sujana Prahlada S/o- Kartika
		825	Sarada- III	Jungle	0.81	Makuru Naik S/o- Askara	Makuru Naik S/o- Askara

The DLC has examined the case thoroughly and approved for issuance of certificate in favour of M/s Bhusan Steel limited with mentioning the observation of Tahasildar, Jhumpura at the time of issue of certificate.

(D) M/s Mideast Integrated Steels Limited (MESCO STEEL)

The Sub-Collector, Champua & Chairman, SDLC has submitted the SDLC Proceeding with documents relating to diversion of forest land for Mideast Integrated Steels Limited (MESCO Steel) for road connectivity and safety activity to Roida-I Iron Ore Mines. On scrutiny of Case records, it is found that the User's Agency in his letter No. 1/123 dt.20.12.2014 has requested to the Collector & Dist. Magistrate, Keonjhar for issue of certificate for forest area of 3.875 Ha. under Forest Right Act, 2006 in favour of M/s MESCO Steel. The District Office instructed to the PA, ITDA, Keonjhar-cum-Dist. Nodal Officer, FRA vide letter No.50/Rev. dt. 12.01.2015 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area


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involved in the project and take steps for obtaining consent of the Gram Sabha or Gram Sabhas, wherever required and forward your findings in the prescribed Format specified in this regard within the stipulated period. The PA, ITDA, Keonjhar has forwarded the proposal to the BDO, Joda vide letter No.121/ITDA Dt.15.01.2015 with a request to enquire the matter on settlement of rights under FRA and obtain consent of Gram Sabha in the light of observation of Secy. MoTA, Govt.of India and submit report to the SDLC, Champua with subsequent memo to Tahasildar, Barbil.

The Sub-Collector, Champua & Chairman, SDLC has submitted the proposal after due approval in SDLC held on 30.11.2015. The detail village wise are given below :-

Village-Tanto

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.16.3.2008 (Annexure-A) where in Forest Right Committee members were also selected. Again on 17.10.12(Annexure-A1) Gram Sabha was held to create awareness on various provision and benefit of FR Act among the villagers. On 15.08.13 (Annexure-A2) Gram Sabha was held where in Forest Right Act was discussed. On 20.4.15 (Annexure-A3) FRC was held for awareness of FRA. For village Tanto a Pallisabha was held on 3.7.15 (Annexure-A4)where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of 3.875 Ha. of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area of 3.875 Ha. of forest land and unanimously approved the diversion of forest land in favour of M/s. **Mideast Integrated Steels Limited (MESCO STEEL)**. The SDLC has also recommended for diversion of above forest land in the meeting held on 30.11.15 .The videography of the proceeding of the Gram Sabha meeting held on 3.07.2015 has been made.

The SDLC, Champua in their meeting held on dtd.30.11.15 furnished certificates ensuring attendance of more than 50% of voters of the concerned villages & verifying the signatures/ LTI of the participants duly attested with reference to Electoral Roll of the village. The SDLC further certified that the ST & OTFD(RFR) Act,2006 and amendment rule,2012 has been ensured in respect of Tanto village and there is no claim either individual or community on the forest land proposed for diversions in the respective villages

For better appreciation of the DLC, the details of village, extent of land & other relevant information concerning diversion of forest land measuring an area of 3.875 Ha. of User's Agency M/s **Mideast Integrated Steels Limited (MESCO STEEL)**

Name of the village / Mouza	Extent of land apply (in Ha.)	Kisam of the land	Date of Gram Sabha when the diversion proposal approved	No.of Voters as per Electoral roll	No.of Voters signed in the Gram Sabha	Whether genuineness of voters verified with reference of Sl.No.of Electoral roll by authorized Govt. official in Gram Sabha	Whether joint verification certificate is countersigned by the Chairman SDLC	Previously Gram Sabha held in concerned village where provisions of FR Act was discussed
Sidha matha RF	3.875 Ha	Reserve Forest (adjournin g village TANTO	3.7.15	312	186	yes	yes	16.3.08-FRC constituted 30.6.15-FRC meeting held 17.10.12— <u>Awareness</u> 15.8.13-Awareness


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E) M/s Mideast Integrated Steels Limited (MESCO STEEL)

On scrutiny of Case record, it is found that as per request of User's Agency MESCO Steel on dt.24.4.13 for compliance of ST & OTFD Act,2006 for diversion of forest land towards non-forest activities for Mining purpose, the District Office instructed to the Tahasildar, Barbil vide letter No.2206/Rev. dtd.15.12.13 communicated by ADM, Keonjhar to enquire the matter to ensure compliance of ST & OTFD (RF&R) Act,2006. The Tahasildar, Barbil has recommended the diversion proposal of forest land measuring an area 60.571 Ha. to the SDLC. The Sub-Collector, Champua-cum-Chairman, SDLC has submitted the proposal after approval in the SDLC held on 30.11.2015. The detail village wise are given below :-

Village-Tanto

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.16.3.2008 (Annexure-A-5) where in Forest Right Committee members were also selected. Again on 17.10.12(Annexure-A-6) Gram Sabha was held to create awareness on various provision and benefit of FR Act among the villagers. On 15.08.13 (Annexure-A-7) Gram Sabha was held where in Forest Right Act was discussed. On 20.4.15 (Annexure-A-7) FRC was held for awareness of FRA. For village Tanto a Pallisabha was held on 3.7.15 (Annexure-A-8) where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of 60.571 Ha. of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area of 60.571 Ha. of forest land and unanimously approved the diversion of forest land in favour of M/s. Mideast Integrated Steels Limited (MESCO STEEL)

The SDLC has also recommended for diversion of above forest land in the meeting held on 30.11.15. The videography of the proceeding of the Gram Sabha meeting held on 3.7.15 has been made.

The SDLC, Champua in their meeting held on dtd.30.11.15 furnished certificates ensuring attendance of more than 50% of voters of the concerned villages & verifying the signatures/ LTI of the participants duly attested with reference to Electoral Roll of the village. The SDLC further certified that the ST & OTFD(RFR) Act,2006 and amendment rule,2012 has been ensured in respect of Tanto village and there is no claim either individual or community on the forest land proposed for diversions in the respective villages.


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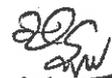
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For better appreciation of the DLC, the details of village, extent of land & other relevant information concerning diversion of forest land measuring an area of **60.571 Ha.** of User's Agency **M/s Mideast Integrated Steels Limited (MESCO STEEL):-**

Name of the village/ Mouza	Extent of land apply (in Ha.)	Kisam of the land	Date of Gram Sabha when the diversion proposal approved	No. of Voters as per Electoral roll	No. of Voters signed in the Gram Sabha	Whether genuineness of voters verified with reference of Sl.No. of Electoral roll by authorized Govt. official in Gram Sabha	Whether joint verification certificate is countersigned by the Chairman SDLC	Previously Gram Sabha held in concerned village where provisions of FR Act was discussed
Sidhamatha RF	60.571 Ha.	Reserve Forest adjoining village TANTO	3.7.15	312	186	yes	yes	16.3.08-FRC constituted 30.6.15-FRC meeting held 17.10.12 Awareness 15.8.13-Awareness 20.4.15-FRC meeting
TOTAL	60.571 Ha							

The diversion proposals submitted after approval in SDLC held on dated 30.11.2015. . The detail land schedule duly signed by Forest Range Officer, Barbil Range & Tahasildar, Barbil. Considering the (i) approval of the Gram Sabha of Tanto village, (ii) recommendation of SDLC, Champua dtd. 30.11.2015 (iii) Joint verification certificates ensuring participation of more than 50% of the voters of the villages and "No claim" either Individual or Community on the proposed Forest land under ST & OTFD (RFR) Act, 2006 & Rules there under, (iv) land particulars for proposed diversion land jointly signed by Tahasildar, Barbil and Forest Range Officer, Barbil Range (v) Enquiry report signed by Sub-Collector, Champua Tahasildar, Barbil and Forest Range Officer, Barbil Range, President of FRC Committee of the concerned village (vi) proceedings of SDLC, Champua held on 30.11.15, (vii) and the certification about no claim over the proposed land by ST, PTG & OTFD under FR Act for individual and CFR purposed. , The DLC (FR), Keonjhar convinced that:-

- the complete process for identification and settlement of rights under the FRA has been carried out for the entire **60.571 Hectares** forest land proposed for diversion in village **Tanto** as revealed from the proceedings of the Gram Sabha.
- the proposal for such diversion in vernacular/local language have been placed before each concerned Gram Sabha of forest dwellers, who are eligible under the FRA. as revealed from the proceeding of the Gram Sabha.


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- c) The concerned Gram Sabhas have certified that all formalities/processes under the FRA have been carried out and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of proposed diversion.
- d) It reveals from the enquiry report furnished by Revenue & Forest personnel the discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabha present.
- e) It reveals from the enquiry report furnished by Revenue & Forest personnel that no such facilities managed by the Govt. as required under section 3(2) of the FRA requiring diversion of forest land exist within the applied area as.
- f) the right of PTG and PAC where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA as reveals from the enquiry report furnished by Revenue & Forest personnel.
- g) It reveals from the proceeding of the Gram Sabha of village that no ST or OTFD were in possession of the forest land proposed for diversion before 13.12.2005.
- h) Further it reveals from the Gram Sabha proceedings of the above village that no tribal or OTFD are presently residing nor any title of rights has been granted under the ST & OTFD(RFR)Act,2006 to any tribal or OTFD on the Forest land proposed for diversion.

The DLC has examined the case and approved for issuance of FRA certificate in favour of M/s. Mideast Integrated Steels Limited.

F) STEEL AUTHORITY OF INDIA, BOLANI IRON ORE

On scrutiny of Case record, it is found that as per request of User's Agency Steel Authority of India, Bolani for compliance of ST & OTFD Act, 2006 for diversion of forest land of Ac. 506.22 towards non-forest activities for Mining purpose. The District Office instructed to the Tahasildar, Barbil vide letter No.1954/Rev. dtd. 5.9.2011 communicated by ADM, Keonjhar to enquire the matter to ensure compliance of ST & OTFD (RF&R) Act, 2006. The Tahasildar, Barbil has informed that the land measuring Ac.1.47/0.60 Ha. is under encroachment by 07 tribals in Village Balagoda. Tahasildar has recommended the diversion proposal of forest land measuring an area 505.62 Ha(465.02 Ha. for mining purpose and 40.60 Ha. for Safety Zone) excluding 0.60 Ha out of total forest area i.e. 506.22 ha. to the SDLC. The Sub-Collector, Champua-cum-Chairman, SDLC has submitted the proposal after approval in the SDLC held on 30.11.2015.

The detail village wise is given below.

Village -Balani

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.16.3.2008 (Annexure-A-9) where in Forest Right Committee members were also selected. Again on 17.10.12(Annexure-A-10) Gram Sabha was held to create awareness on various provision and benefit of FR Act among the villagers. On 18.10.12 (Annexure-A11) Gram Sabha was held where in Forest Right Act was discussed. For village Balani a Gramsabha was held on 21.10.11 (Annexure-A12) where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area forest land and unanimously approved the diversion of forest land in favour of M/s. Steel Authority of India, Bolani Ores Mines

Village –Balaguda

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.23.3.2008 (Annexure-A-13) where in Forest Right Committee members were also selected. Again on 17.10.12 (Annexure-A-14) Gram Sabha was held to create awareness on various provision and benefit of FR Act among the villagers. For village **Balaguda** a Gramsabha was held on **21.10.11** (Annexure-A12) where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area forest land and unanimously approved the diversion of forest land in favour of **M/s. Steel Authority of India, Bolani Ores Mines**

Village –Limitur

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.23.3.2008 (Annexure-A-15) where in Forest Right Committee members were also selected. Again on 7.1.13 (Annexure-A-14) Pallisabha Sabha was held to create awareness on various provision and benefit of FR Act among the villagers and re-constitute of FRC. For village Limitur a Gramsabha was held on 17.10.11 at Balaguda GP (Annexure-A-12) where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area forest land and unanimously approved the diversion of forest land in favour of **M/s. Steel Authority of India, Bolani Ores Mines.**

The SDLC has also recommended for diversion of above forest land in the meeting held on **30.11.15**. The videography of the proceeding of the Gram Sabha meeting held has been made.

The SDLC, Champua in their meeting held on dtd. **30.11.15** furnished certificates ensuring attendance of more than 50% of voters of the concerned villages & verifying the signatures/ LTI of the participants duly attested with reference to Electoral Roll of the village. The SDLC further certified that the ST & OTFD(RFR) Act, 2006 and amendment rule, 2012 has been ensured in respect of **Balani, Balagoda & Limitur** village and there is no claim either individual or community on the forest land proposed for diversions in the respective villages.

For better appreciation of the DLC, the details of village, extent of land & other relevant information concerning diversion of forest land measuring an area of **505.62 Ha.** of User's Agency M/s Steel Authority of India, Bolani Ores Mines. The details of village wise area as follows :-

Name of the village/ Mouza	Extent of land apply (in Ha.)	Kisam of the land	Date of Gram Sabha when the diversion proposal approved	No. of Voters as per Electoral roll	No. of Voters signed in the Gram Sabha	Whether genuineness of voters verified with reference of Sl.No. of Electoral roll by authorized Govt. official in Gram Sabha	Whether joint verification certificate is counter signed by the Chairm an SDLC	Previously Gram Sabha held in concerned village where provisions of FR Act was discussed
Bolani	42.08 Ha	Revenue Forest	21.10.11	1221	634	Yes	Yes	16.3.08- FRC Constituted 17.10.12- Awareness 18.10.12- Awareness
Balagoda	56.83 Ha	-do-	17.10.11	3263	1783	Yes	Yes	23.3.08- FRC Constituted 17.10.12- Awareness
Limtur	67.50 Ha	-do-	17.10.11 At Balagoda GP	101	83	Yes	Yes	23.3.08- FRC Constituted 15.8.11-Awareness 7.1.13-re constitution of FRC
Karo RF	339.21 Ha	Reserve Forest						
TOTAL	505.62 Ha							

The diversion proposals submitted after approval in SDLC held on dated 30.11.2015. The detail land schedule duly signed by Forest Range Officer, Barbil Range & Tahasildar, Barbil. Considering the (i) approval of the Gram Sabha of Tanto village, (ii) recommendation of SDLC, Champua dtd. 30.11.2015 (iii) Joint verification certificates ensuring participation of more than 50% of the voters of the villages and "No claim" either Individual or Community on the proposed Forest land under ST & OTFD (RFR) Act, 2006 & Rules there under, (iv) land particulars for proposed diversion land jointly signed by Tahasildar, Barbil and Forest Range Officer, Barbil Range (v) Enquiry report signed by Sub-Collector, Champua Tahasildar, Barbil and Forest Range Officer, Barbil Range, President of FRC Committee of the concerned village (vi) proceedings of SDLC, Champua held on 30.11.15, (vii) and the certification about no claim over the proposed land by ST, PTG & OTFD under FR Act for individual and CFR purposed. , The DLC (FR), Keonjhar convinced that:-


Project Administrator
J.T.D.A. Keonjhar

- a) The complete process for identification and settlement of rights under the FRA has been carried out for the entire **505.62 Hectares** forest land proposed for diversion in villages as revealed from the proceedings of the Gram Sabha.
- b) The proposal for such diversion in vernacular/local language have been placed before each concerned Gram Sabha of forest dwellers, who are eligible under the FRA. as revealed from the proceeding of the Gram Sabha.
- c) The concerned Gram Sabhas have certified that all formalities/processes under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of proposed diversion.
- d) It reveals from the enquiry report furnished by Revenue & Forest personnel the discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabh present.
- e) It reveals from the enquiry report furnished by Revenue & Forest personnel that no such facilities managed by the Govt. as required under section 3(2) of the FRA requiring diversion of forest land exist within the applied area as.
- f) the right of PTG and PAC where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA as reveals from the enquiry report furnished by Revenue & Forest personnel.
- g) It reveals from the proceeding of the Gram Sabha of village that no ST or OTFD were in possession of the forest land proposed for diversion before 13.12.2005.
- h) Further it reveals from the Gram Sabha proceedings of the above villages that no tribal or OTFD are presently residing nor any title of rights has been granted under the ST & OTFD(RFR)Act,2006 to any tribal or OTFD on the Forest land proposed for diversion.

The DLC has examined the case and approved for issuance of FRA certificate in favour of **Steel Authority Of India Ltd. Bolani Iron Ores.**

G) ORISSA SPONGE IRON & STEEL LIMITED

The Sub-Collector, Keonjhar & Chairman, SDLC has submitted the SDLC proceeding with case record relating to diversion of forest land for M/s Odisha Sponge Iron Limited for Mining activity. On scrutiny of Case records, it is found that the User's Agency in his letter dt.21.9.15 has requested to the Collector & Dist.Magistrate, Keonjhar for issue of certificate for forest area of **34.83 Ha.** under Forest Right Act,2006 in favour of M/s Orissa Sponge Iron & Steel Ltd.. The District Office instructed to the PA,ITDA, Keonjhar-cum-Dist.Nodal Officer, FR vide letter No.2835/Rev. dt. 26.12.15 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area involved in the project and take steps for obtaining consent of the Gram Sabha or Gram Sabhas, wherever required and forward your findings in the prescribed Format specified in this regard within the stipulated period. The PA,ITDA,Keonjhar has forwarded the proposal to the BDO,Banspal vide letter No.108/ITDA Dt.15.1.16 with a request to enquire the matter on settlement of rights under FRA and obtain consent of Gram Sabha in the light of observation of Secy.MoTA, Govt.of India and submit report to the SDLC,Keonjhar with subsequent memo to Tahasildar,Banspal. The details of village wise area as follows :-


 Project Administrator
 I.T.D.A. Keonjhar

Name of the village/Mouza	Extent of land apply (in Ha.)	Kisam of the land	Date of Gram Sabha when the diversion proposal approved	No. of Voters as per Electoral roll	No. of Voters signed in the Gram Sabha	Whether genuineness of voters verified with reference of Sl.No. of Electoral roll by authorized Govt. official in Gram Sabha	Whether joint verification certificate is countersigned by the Chairman SDLC	Previously Gram Sabha held in concerned village where provisions of FR Act was discussed
Kadakala	34.83 Ha.	Parbat-II	20.2.16	494	343	Yes	Yes	16.9.08 -FRC constituted 18.10.10-Pallisabha 5.2.14-Pal;lisabha-Awareness of FR Act

The diversion proposals submitted after approval in SDLC held on dated 26.3.16. The detail land schedule duly signed by Forest Range Officer, BJP Range & Tahasildar, Banspal. The SDLC, Keonjhar has recommended the above diversion proposal to the DLC for approval with following certificate:

"The house directed to the BDO/WEO Banspal to verify and give certificate that there is no claims or no applications pending in the village Kadakala under FRA. After received of the same from the BDO, Banspal, the Nodal Officer, FRA was directed to put up the proposal in next DLC meeting."

Therefore, it was unanimously decided by the District Level Committee to submit proposal of Shri Jagannath Steel & Power Limited, M/s Bhusan Steel Limited, M/s MESCO Limited (two proposals) and M/s Steel Authority India, Bolani Ore Mines to Collector & District Magistrate, Keonjhar for issuance of certificate regarding compliance of STs and OTFDs (RFR) Act, 2006 & Rules there under.

The District Nodal Officer, FR was directed to submit the original documents of Shri Jagannath Steel & Power Limited, M/s Bhusan Steel Limited, M/s MESCO Limited (two proposals) and M/s Steel Authority India, Bolani Ore Mines to the Collector & District Magistrate, Keonjhar for issuance of certificate regarding compliance of STs and OTFDs (RFR) Act, 2006 & Rules there under.

The meeting ended with a vote of thanks to the Chair as well as the participants.

PA, ITDA-CUM-NODAL OFFICER (FRA)

COLLECTOR, KEONJHAR

INTEGRATED TRIBAL DEVELOPMENT AGENCY : KEONJHAR

Memo No. 1141 /ITDA(FR) Dated : 18.07.16

Copy submitted to the Director(ST-cum-Addl. Secretary to Govt., ST & SC Development Department, Odisha, Bhubaneswar/ Collector, Keonjhar / ADM,Keonjhar for kind information and necessary action.

205
PROJECT ADMINISTRATOR, ITDA,
-CUM-DIST. NODAL OFFICER, FR

Memo No 1142 /ITDA. Dated : 18.07.16

Copy to all members for information and necessary action.

205
PROJECT ADMINISTRATOR, ITDA,
-CUM-DIST. NODAL OFFICER, FR

MINUTES OF DISCUSSION IN THE SDLC (FOREST RIGHTS) CHAMPUA HELD ON 30.11.2015 AT 3.00 P.M. IN THE OFFICE CHAMBER OF THE SUB-COLLECTOR-CUM-CHAIRMAN, SDLC, CHAMPUA.

Members present:

1. Sub-Collector-cum-Chairman, SDLC, Champua.
2. Forest Range Officer, Champua
3. Sri Bijendra Munda P.S Member
4. S.O,ITDA,Champua
5. ADWO, Champua
6. WEO, Jhumpura
7. WEO, Joda

ANNEXURE-II

The Sub-divisional Level Committee meeting was held on 30.10.2015 at 3.00 P.M. in the Office Chamber of the Sub-Collector, Champua under the Chairmanship of Sub-Collector-cum-Chairman, SDLC Champua. The proceedings of the last SDLC meeting held on 26.09.2015 was circulated among all the members, vide memo No.4800 / F.R/Dt.26.09.2015. No objection has been received from any quarter so far. The committee confirmed the proceeding of meeting held on dt. 30.11.2015.

At the outset, the Sub-Collector-cum-Chairman, SDLC welcomed all members / invitees and sought their Active cooperation in implementation of the scheme i.e. ST & Others Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006.

The progress of rejected claims at Gram Sabha level was discussed. The WEOs were instructed to submit the rejected claim proposals with reason immediately for data uploaded in Website. The details of rejected cases are given below.

Sl. No.	Name of the Block	Application rejected at G.S level	No. of rejected cases			
			Rejected proposals already submitted to DLC	Now submitted	Total	Balance pending for submission
1.	Champua	600	600	-	600	-
2.	Jhumpura	565	565	-	565	-
3.	Joda	574	574	-	574	-
	Total	1739	1739	-	1739	-

The B.D.O, Champua, Jhumpura and Joda were requested to intimate the applicants regarding rejection of applications immediately and intimate to the PA, ITDA-Cum-Nodal Office, F.R, Keonjhar as well as to this Office.

Position of I. A. Y

Name of the Sub-Division	Name of the Block	Beneficiaries covered under	
		IAY(Target)(2012-13)	IAY(Target)(2013-14)
Champua	Champua	265	76
	Jhumpura	532	210
	Joda	337	138
	Total:-	1134	424

75

[Signature]
ASO, Dist. Welfare Office,
Champua

[Signature]
Bijendra Munda
Panchayat Samiti Member
Balagoda G.P.
[Signature]
Forest Range Officer
Champua Range

The B.D.O, Champua/Jhumpura/Joda were requested to submit information in the prescribed format relating to convergence on FRA IAY to the P.A.I.T.D.A, Keonjhar -Cum- Dist.Nodal Office, FRA, as sought for by him vide his letter No.3312/ITDA.24.11.2015 with a copy to this Office.

Individual/CFR&CR applications

The W.E.O, Champua / Jhumpura/Joda intimated that no action has been taken on the pending applications due to disengagement of Amins. So, P.A., I.T.D.A, Keonjhar-Cum-Dist.Nodal Officer, F.R is requested to take necessary steps for engagement of contractual Amins for settlement of claims under forest right Act.

Diversion Proposal

The Tahasildar, Barbil has submitted three nos of diversion proposals of forest land for non-forest activities.

1-M/S SAIL Bolani Ores Mines

The Tahasildar, Barbil has submitted the diversion proposal of forest land for non-forest purpose measuring an area 505.62 Ha in stead of 506.22 Ha. due to encroachment of forest area measuring 0.60 Ha. of mouza Balagoda by 07 nos tribal people. W.E.O, Joda has also submitted a certificate in this regard. The details are noted below:-
Bolani - 42.08 ha, Balagoda - 56.83 ha, Limitura - 67.50 ha. and
Karo R.F. - 339.21 ha

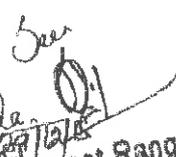
Bolani

- 16.03.2008:-
i) Forest Right Committee was formed in the Palli Sabha.
ii) Application was invited from the eligible ST & OTFD. (Annexure- A)
- 14.10.2011:-
i) Forest Right Committee meeting was held.
ii) The forest land proposed for diversion was discussed. Nobody resides/depends on the aforesaid forest land. Ther is no objection, if the proposed land is used for non-forest activities (Annexure- B)
- 21.10.2011:-
Grama Sabha Was held for diversion of forest land for non forest purpose by the User Agency. the proposal was also passed in the Grama Sabha for non-forest activities. (Annexure- C)

Awareness

- 17.10.2012:-
i) Grama Sabha Sasakti Karana was held. Para-9 states that different as pact of ST & OTFD Rules was discussed. (Annexure- D)


Panchayat Samiti Member
Balanoda G.P.


Forest Range Officer
Chamoua Range


PROJECT MANAGER
S.D.A. CHAMPUA

72

18.10.2012:- Grama Sabha Sasakti Karana was held. Para-8 states that discussion was made for supply of Patta under this Act. (Annexure- E)

Balagoda

23.3.2008:- i) Forest Right Committee was formed in the Palli Sabha.
ii) Applications were invited from the eligible ST & OTFD. (Annexure- A)

10.10.2011:- i) i) Forest Right Committee meeting was held.
ii) The forest land proposed for diversion was discussed. Nobody resides/depends on the aforesaid forest land. There is no objection, if the proposed land is used for non-forest activities. (Annexure- B)

17.10.2011:- Grama Sabha was held for diversion of forest land for non forest purpose by the User Agency. The proposal was also passed in the Grama Sabha for non-forest activities. The W.E.O Joda apprised the Chairman that Grama Sabha was held for village Balagoda and Nimitur for the proposed land since the villagers of both the villages depend on the same forest. (Annexure- C)

Awareness

17.10.2012:- i) Grama Sabha Was held. (Para-10) Dissussion was made on issue of Patta to the ST & OTFD under this Act. (Annexure- D)

Nimitur

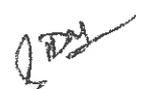
23.03.2008:- i) Forest Right Committee was formed.
ii) Application was invited from the eligible ST & OTFD. (Annexure-A)

13.10.2011:- i) Discussion was made on the forest land proposed for diversion.

ii) It was discussed in the meeting that no ST & OTFD resides/depends nor title issued to anybody on the aforesaid forest land.

iii) It was also unanimously passed in the F.R.C meeting that there is no objection, if the proposed forest area is used by the User Agency. (Annexure-B)

17.10.2011:- Grama Sabha was held for diversion of forest land for non forest purpose by the User Agency. The proposal was also passed in the Grama Sabha for non-forest activities. The W.E.O Joda apprised the Chairman that Grama Sabha was held for village Nimitur and Balagoda for the proposed land since the villagers of both the villages depend on the same forest. (Annexure- C)


Bijender Munda
Panchayat Samiti Member
Balagoda G.P.
Joda
12/15
Forest Range Officer
Chambua Range


7.1.2013:-

Awareness was created for submission of applications under ST & OTFD Act. (Annexure- D)

It is ascertain from the enquiry report submitted by the President/ Secretary/ Forest Range Officer, Barbil Range, Barbil and Tahasildar, Barbil and land Scheduled submitted by the Tahasildar, Barbil that the land measuring Ac. 1.47 /0.60 Ha is under encroachment by 07 tribals of mouza Balagoda. So, the Diversion proposal of forest land measuring an area 505.62 Ha (465.02 ha for mining purpose and 40.60 ha for Safety Zone) excluding 0.60 ha out of total forest area i.e. 506.22 ha has been recommended to S.D.L.C. It was also discussed in the meeting. The members present scrutinised the proposal and found correct. The Chairman also satisfied and agreed to recommend the proposal to D.L.C.F.R.

Vidio recording has not been made since the Grama Sabha was held during the year 2011. At that time Vidio recording was not required.

2-M/S Mideast Integrated Steels Ltd. - Sidhamath Reserve Forest

The Tahasildar, Barbil has submitted the diversion proposal of forest land for non-forest purpose measuring an area 60.571 Ha (51.99 Ha for Mining Purpose + 8.581 Ha for Safety Zone). The details are noted below:-

Tanto

16.03.2008:-

- i) Forest Right Committee was formed in the Palli Sabha.
- ii) Application was invited from the eligible ST & OTFD. (Annexure- A)

30.06.2015:-

- i) Forest Right Committee meeting was held.
- ii) The forest land proposed for diversion was discussed. Nobody resides/depends on the aforesaid forest land. Ther is no objection, if the proposed land is used for non-forest activities (Annexure- B)

3.7.2015:-

Grama Sabha was held for diversion of forest land for non forest purpose measuere an area 60.571 ha. The proposal was unanimously passed in the Grama Sabha that there is no object if the proposed land is used for non-forest purpose since no body depends/resides on the proposed land.

(Annexure- C)

Awareness

17.10.2012:-

Grama Sabha Sasakti Karana was held. Para-9 states that discussion was made for issue of title to the eligible ST & OTFD. (Annexure- D)

15.08.2013:-

Grama Sabha was held. Para: - 6 - Discussion was made for submission of application under this act through Forest Right Committee. (Annexure- E)

Extension Officer
10/11/13

Asst. Dist. Welfare Officer
Champua

Bijander Munda
Panchayat Samiti Member
Balagoda G.P.

Forest Range Officer

PROJECT S/W
QUAL

20.04.2015:- Forest Right Committee Meeting was held. Discussion was made on issue of title under this act. (Annexure- F)

3-M/S Mideast Integrated Steels Ltd. - Sidhamath Reserve Forest

The Tahasildar, Barbil has submitted the diversion proposal of forest land for non-forest purpose measuring an area 03.875 Ha for Road connectivity & Safety activity. The details are noted below:-

Tanto

16.03.2008:-
i) Forest Right Committee was formed in the Palli Sabha.
ii) Application was invited from the eligible ST & OTFD. (Annexure- A)

30.06.2015:-
i) Forest Right Committee meeting was held.
ii) The forest land proposed for diversion was discussed. Nobody resides/depends on the aforesaid forest land. There is no objection, if the proposed land is used for non-forest activities (Annexure- B)

3.7.2015:-
Grama Sabha was held for diversion of forest land for non forest purpose measuring an area 60.571 ha. The proposal was unanimously passed in the Grama Sabha that there is no objection if the proposed land is used for non-forest purpose since no body depends/resides on the proposed land.
(Annexure- C)

Awareness

17.10.2012:-
Grama Sabha Sasakti Karana was held.
Para-9 states that discussion was made for issue of title to the eligible ST & OTFD. (Annexure- D)

15.08.2013:-
Grama Sabha was held.
Para: - 6 - Discussion was made for submission of application under this act through Forest Right Committee. (Annexure- E)

20.04.2015:-
Forest Right Committee Meeting was held. Discussion was made on issue of title under this act. (Annexure- F)

Basing on the Joint enquiry reports of President/Secretary of F.R.C / Tahasildar, Barbil/Forest Range Officer, Barbil Range, Barbil along with Grama Sabha Proceedings, Certificate furnished by Tahasildars, P.E.Os, the SDLC committee come to the conclusion that:-

a. the complete process for identification and settlement of rights under the FRA has been carried out for the entire forest land proposed for diversion.

[Signature]
H.O. F.R.C.

[Signature]
Asst. Dist. Welfare Officer
Champur

[Signature]
Tahasildar

[Signature]
Bijender Munda
Panchayat Samiti Member
Balagoda G.P.
Forest Range Officer
Barbil Range

A copy of proceedings of FRC(s) and Gram Sabha(s) are enclosed.

b. the proposal for such diversion in vernacular / Local language have been placed before each concerned Grama Sabha of forest dwellers, who are eligible under FRA as revealed from the proceedings of the respective Grama Sabhas.

c. each of the concerned Grama Sabha (s) has certified that all formalities/process under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of proposed diversion. A copy of Grama Sabha resolutions enclosed.

d. it reveals from the enquiry report furnished by Revenue & Forest personnel the discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50 % of the members of Gram Sabha present:

e. it reveals from the enquiry report furnished by Revenue & Forest personnel that no such facilities managed by the Govt. as required under Section 3(2) of the FRA requiring diversion of forest land exist within the applied areas .

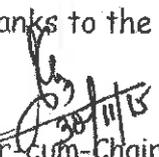
f. the right of PTG and PAC where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA as reveals from the enquiry report furnished by Revenue & Forest personnel.

g. it reveals from the proceedings of the Gram Sabhas/Certificate furnished by the Tahasildar,Barbil that no ST or OTFD were in possession of the forest land proposed for diversion before 13.12.2005.

h. Further it reveals from the Gram Sabha proceedings of above villages that no tribal or OTFD are presently residing nor any title of rights has been granted under the ST & OTFD (RFR) Act.2006 to any tribal or OTFD on the forest land proposed for diversion.

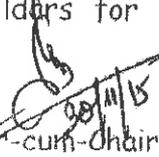
The S.D.L.C Members decided to recommend the diversion proposal of 1-M/\$ SAIL Bolani Ores Mines, 2-M/S Mideast Integrated Steels ltd 3-M/S Mideast Integrated Steels Ltd to DLC,F.R for taking further necessary action.

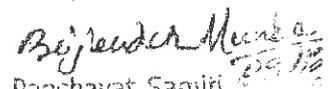
The meeting was ended with vote of thanks to the Chair.


Sub-Collector-cum-Chairman,
SDLC, Champua.

Memo No. 5638 /Dt. 04/12/2015

Copy forwarded to all members of SDLC for information and necessary action/Copy forwarded to All BDOs/ All Tahasildars for information and necessary action.


Sub-Collector-cum-Chairman,
SDLC, Champua.


Bijender Mehta
Panchayat Samiti
Balagoda


Forest Range Officer
Champua Range



Memo No 5639 /Dt. 04/12/2015

Copy along with 03 (three) diversion proposals forwarded to the PA, ITDA, Keonjhar-cum-Nodal Officer, DLC, Keonjhar for information and necessary action.

Copy to the P.A., ITDA, Champua for information.

[Signature]
08/11/15
Sub-Collector-cum-Chairman,
SDLC, Champua

Memo No. 5640 /Dt. 04/12/2015

information. Copy submitted to the Collector & District Magistrate, Keonjhar for kind

[Signature]
08/11/15
Sub-Collector-cum-Chairman,
SDLC, Champua

[Signature]
Asst. Dist. Welfare Officer
Champua

[Signature]
Forest Range Officer
Champua Range

[Signature]
PROJECT MANAGER
ITDA, CHAMPUA

[Signature]
Panchayat Samiti Member
Balagoda G.P.

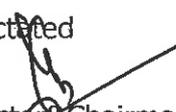
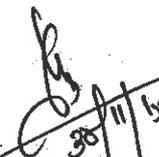
ORDER SHEET

Schedule -- LIII Form No. 320

(See Paragraph 207 (1) of the Orissa Records Manual, 1964)

Order Sheet dated from _____ to 30.11.2015 Tahasil :- Barbil, PS-Bolani ,
 Village:- Bolani, District Keonjhar, Sub Division :Champua No. 1621/2015
 Nature Of Case: - **Scheduled Tribe and Other Traditional Forest Dwellers (Recognition of Forest Right) Act, 2006 and Rules, 2007.**

Name: - M/S SAIL Bolani Ores Mines

Serial number and date of Order	Order and signature of the Officer	Note of action taken on order with date
1	2	3
30.11.2015.	<p>One diversion proposal of forest land for non-forest purpose of the User Agency M/S SAIL Bolani Ores Mines covering area 505.62 Ha, has been received from the Tahasildar, Barbil. The proposal has been passed in the concerned Forest Right Committee and the proposal has also been passed in the Grama Sabha held on 21.10.2011 and 17.10.2011 with minimum 50% quorum. 0.60 Ha is under encroachment of mouza Balagoda. So the enquiring Officers have recommended the proposal measuring forest land 505.62 Ha ,excluding 0.60 Ha out of total forest land i.e 506.22 Ha</p> <p>The Sub-Divisional Level Committee has gone through the application as well as the verification report attached there on. It has been decided in the Grama Sabha Resolution that the forest land measuring an area 505.62 will be used for the purpose of mining activities and Safety Zone by the User Agency M/S SAIL Bolani Ores Mines since no body depends on the proposed forest land.(Mining purpose- 465.02 ha + S.Z- 40.60 ha)</p> <p>The Sub-Divisional Level Committee has also passed the proposal on 30.11.2015 in this regard.</p> <p>Send the C/R to Dist.Level Committee for taking needful action.</p> <p>Dictated  Sub-Collector & Chairman SDLC ER, Champua</p> <p> 30/11/15 Sub-Collector & Chairman SDLC ER, Champua</p>	

ENQUIRY REPORT ON DIVERSION OF FOREST LAND FOR NON FOREST PURPOSE –
ENSURING COMPLIANCE OF SCHEDULED TRIBE & OTHER TRADITIONAL FOREST
DWELLERS (RECOGNITION OF FOREST RIGHT) ACT, 2006



1. Name of the Project and purpose of : STEEL AUTHORITY OF INDIA LIMITED
2. Name of the Project and purpose of Diversion : Bolani Ores Mines
3. Name of the village(s) and R.F. area Covered under Diversion Proposal :

Bolani	Ac. 103.95=	42.08 ha
Balagoda	Ac. 141.85=	57.43 ha
Limtur	Ac. 166.72=	67.50 ha
Total::	Ac. 412.52=	167.01 ha.
Karo R.F.	Ac.837.85=	339.21 ha
G Total	Ac.1250.37=	506.22 ha
4. Name of the G.P. (s) : Bolani & Balagoda
5. Name of the Tahasil : Barbil
6. Extent of Forest land under Diversion :

Mining	Ac.1150.08=	465.62 ha
Safety Zone	Ac. 100.29=	40.60 ha

 - a) Revenue Forest : Area in Acre/ Hect. (Details of Land Schedule & map is Annexed as per Format-I) : Ac.412.52= 167.01 ha.
 - b) Reserved Forest : Area in Acre/ Hect. (Map to be enclosed) : Ac.837.85= 339.21 ha.
7. If any claims received under Forest Right : No.
 - c) Total Area- In Acre/ Hect Act, 2006 out of the above diversion Proposal : **Ac. 1250.37 / 506.22 Hac.**
(Ac.1,47 of forest land is under encroachment)
 - I. If Yes, give details of claims received (To be enclosed in Format-II & III) :
 - a) Total claims approved in the Dist. Level Committee out of the above diversion Proposal : --
 - (i) For Revenue Forest (In Acre/Hect.) : Ac.1.47
(Under encroachment)
 - (ii) For Reserve Forest(In Acre/ Hect, : --
 - (b) Balance area for diversion alongwith map :

Mining	Ac.1148.61=	465.02 ha
Safety Zone	Ac. 100.29=	40.60 ha
	Ac. 1248.90=	505.62 ha

 - (i) Revenue Forest (In Acre/Hect) : Ac. 411.05/ 166.41 Ha
 - (ii) Reserved Forest (In Acre/Hect) : Ac. 837.85/ 339.21 Ha
- II. If No, Joint field verification by Revenue & Forest personnel regarding Forest Right claim, if any, for individual/ Community in the proposed diversion area : Joint field enquiry conducted. No such claim exists within the proposed diversion area. But an area of Ac. 1.47 is under encroachment

8. a) Whether proposal for such diversion of Forest land have been placed before each of the Gram Sabha of Forest Dwellers who are eligible under Forest Right Act & details of the Project and its Implications have been explained to them in local language. : YES
- b) Whether such discussion and decision on Such proposal had taken place with a quorum of minimum 50% of members of the Gram Sabha present or not. : YES
- c) Whether rights of Primitive Tribals Groups and pre-agricultural community have been specifically safe guarded as per section 3(1)(e) of Forest Right Act. : YES
- d) Whether the diversion of forest land for facilities managed by Government as required u/s 3 (2) of the Forest Right Act (if any) have been completed and that the Gramsabha has consented to it. : No such claim exist within the applied area for diversion

Documents to be enclosed

9. a) Proposed land schedule and Map for Diversion
- b) Gramsabha Resolution in vernacular language and English translation
- c) Any other documents.

10. Remarks:

M/s. SAIL, Bolani Ores Mines has applied for compliance of Ac.1250.37/ 506.22 Ha (Ac.1150.08/ 465.62 ha for Mining purpose and Ac.100.29/40.60 ha for Safety Zone). On enquiry it is found that Ac.1.47/ 0.60 ha. is under encroachment. Hence recommended for issue of compliance certificate under Forest Right Act, 2006 for diversion of forest land measuring (Ac. 1148.61/ 465.02 ha for Mining Purpose and Ac.100.29/ 40.60 ha for Safety Zone) totaling to Ac.1248.90/ 505.62 ha for non forest purpose i.e. Mining purpose in village Bolani, Balagoda, Limtur and Karo R.F. of Bolani Ores Mines of M/s. SAIL, Bolani Ores Mines.

Chandran Zohar Hindu
Kausalya Vatra

Signature of President/Secretary, F.R.C

Devi
5/10/13
Signature of the
Range Officer
RANGE OFFICE, BARBIL

[Signature]
5/10/13
Signature of the
Tahasildar, Barbil
TAHASILDAR
BARBIL

[Signature]
Sub-Collector
Champua

FORMAT - I
Details of Revenue Forest Lands for diversion (supported by Map in Duplicate)

Sl.No.	Name of the Village	Total extent of forest Land for diversion	Remarks
1.	Bolani	Ac. 103.95	Revenue Forest Land
2.	Balagoda	Ac. 141.85	-do-
3.	Limitur	Ac. 166.72	-do-
	Total	Ac. 412.52 / 167.01 Ha	
4	Karo R. F.	Ac. 837.85/ 339.21 Ha	Reserved Forest
	Grand Total	Ac .1250.37/ 506.22 Ha	

FORMAT -II
A) For Revenue Forest Land (Forest Right Claims)

Mouza	Name of The claimant under F.R.Act	Khata No	Plot No.	Area (Ac)	Whether approved in FRC	Whether approved in SDLC	Whether approved in Dist Level Committee	Remarks
Balagoda	-	96	821	0.140	Nil	Nil	Nil	Under Encroachment
		96	1131	0.240	-	-	-	-do-
		96	1132	0.120	-	-	-	-do-
		96	1134	0.040	-	-	-	-do-
		96	1135	0.380	-	-	-	-do-
		96	1136	0.250	-	-	-	-do-
		96	1137	0.300	-	-	-	-do-
	Total			1.470				

FORMAT-III
B) for Reserved Forest Land) Forest Right Claims)

Mouza	Name of The claimant under F.R.Act	Khata No	Plot No.	Area (Ac)	Whether approved in FRC	Whether approved in SDLC	Whether approved in Dist Level Committee	Remarks
Nil-	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil


 5/11/13
 Forest Range Officer
BARBIL RANGE, BARBIL


 7/10/13
 Tahasildar, Barbil
TAHASILDAR BARBIL

VERIFICATION CERTIFICATE

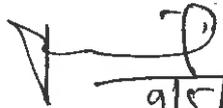
1. Certified that more than 50% of voters of village **Bolani** have attended the Gram Sabha and signed in the resolution. **634** Voters were present in the Gram Shabha out of **1221**.
2. Certified that Sl. No. of Electoral Roll has been mentioned against the signature/L.T.I. of Gram Sabha resolution.
3. Verified the genuineness of voters, who put the signature/L.T.I. on the resolution of Gram Sabha, with reference to the Electoral roll of village **Bolani** and found correct.
4. Certified that there is no claim either individual or community on the forest land proposed for diversion.


TAHASILDAR, BARBIL
TAHASILDAR
BARBIL


~~Sub-Collector
Champurā~~

VERIFICATION CERTIFICATE

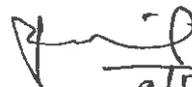
1. Certified that more than 50% of voters of village **Balagoda** have attended the Gram Sabha and signed in the resolution. **1783** Voters were present in the Gram Shabha out of **3263**.
2. Certified that Sl. No. of Electoral Roll has been mentioned against the signature/L.T.I. of Gram Sabha resolution.
3. Verified the genuineness of voters, who put the signature/L.T.I. on the resolution of Gram Sabha, with reference to the Electoral roll of village **Balagoda** and found correct.
4. Certified that there is no claim either individual or community on the forest land proposed for diversion.


9/5/14
TAHASILDAR, BARBIL
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BARBIL


Sub-Collector
Chambra

VERIFICATION CERTIFICATE

1. Certified that more than 50% of voters of village **Nimtur** have attended the Gram Sabha and signed in the resolution. **83** Voters were present in the Gram Shabha out of **101**.
2. Certified that Sl. No. of Electoral Roll has been mentioned against the signature/L.T.I. of Gram Sabha resolution.
3. Verified the genuineness of voters, who put the signature/L.T.I. on the resolution of Gram Sabha, with reference to the Electoral roll of village **Nimtur** and found correct.
4. Certified that there is no claim either individual or community on the forest land proposed for diversion.


9/5/19
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Sub-Collector
Champua

ANNEXURE - VII

ଗ୍ରାମ - ବଲାଣି
ତା ୨୧-୧୦-୨୦୧୧ ରିଖ
ସ୍ଥାନ-ବଲାଣି ବସ୍ତି
ସମୟ - ପୂର୍ବାହ୍ନ ୧୧ ଘଣ୍ଟା.

ଅର୍ଥାତ୍ ତା ୨୧-୧୦-୨୦୧୧ରଖ ଶୁକ୍ରବାର ଦିନ ବଲାଣି ଗ୍ରାମରେ ପୂର୍ବାହ୍ନ ୧୧ ଘଣ୍ଟା ସମୟରେ ବଲାଣି ଗ୍ରାମ ପଞ୍ଚାୟତର ସରପଞ୍ଚ ଗ୍ରାମତୀ ହେମଲତା ସିଂ ସଭାପତିତ୍ଵରେ ଏକ ଗ୍ରାମସଭା ଅନୁଷ୍ଠିତ ହୋଇଥିଲା । ଉକ୍ତ ସଭାରେ ଗ୍ରାମ ପଞ୍ଚାୟତର ନିର୍ବାଚିତ ପ୍ରତିନିଧି , ବଲାଣି ଗ୍ରାମ ପଞ୍ଚାୟତ ନିର୍ବାହୀ ଅଧିକାରୀ, ଫରେଷ୍ଟ ରାଇଟ୍ କମିଟିର ସଦସ୍ୟ ଓ ଗ୍ରାମର ୬୦ ପ୍ରତିଶତରୁ ଊର୍ଦ୍ଧ୍ଵ ଭୋଟର ଯୋଗ ଦେଇଥିଲେ ।

ପ୍ରସ୍ତାବ - ଗ୍ରାମସଭାର ଉଦ୍ଦେଶ୍ୟ ସଂପର୍କରେ ସରପଞ୍ଚ ମହାଶୟା ବିଶଦ ଭାବରେ ଆଲୋଚନା କରିଥିଲେ । ତତ୍ଵସିଲ୍ଦାର ବଡ଼ବିଲଙ୍କ ପତ୍ରସଂଖ୍ୟା ୨୯୮୯/ତା ୧୭-୦୮-୨୦୧୧ରଖ ଅନୁଯାୟୀ ବଲାଣୀ ଓ ବାଲାଗୋଡ଼ା ଗ୍ରାମର କାରୋ ସଂରକ୍ଷିତ ଜଙ୍ଗଲ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୧୧୫୨.୫୮ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମି (ସେଫଟି ଜୋନ୍ ୭୩.୨ ହେକ୍ଟର କୁ ମିଶାଇ ୧୨୨୫.୭୮ ହେକ୍ଟର) ର ତାଇଭର୍ସନ ଓ ପତ୍ରସଂଖ୍ୟା ୩୩୦୧/ତା ୧୨-୦୯-୨୦୧୧ ରିଖ ଅନୁଯାୟୀ ବଲାଣୀ, ବାଲାଗୋଡ଼ା ଓ ନିମତୁର୍ ଗ୍ରାମର କାରୋ ସଂରକ୍ଷିତ ଜଙ୍ଗଲ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୫୦୬.୨୨ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମିର ତାଇଭର୍ସନ କରାଯାଇ ବଲାଣୀ ଓର୍ସ ମାଇନ୍ସ ଦ୍ଵାରା ଖଣି ଖନନ,କାରଖାନା ଓ ଅନ୍ୟାନ୍ୟ ଆନୁସଙ୍ଗିକ କାର୍ଯ୍ୟ ପାଇଁ ବ୍ୟବହାର ସକାଶେ ଉପରୋକ୍ତ ଜଙ୍ଗଲ ଜମିକୁ ଅଣଜଙ୍ଗଲ ଜମିକୁ ପରିବର୍ତ୍ତନ କରାଯାଇ ଆପତ୍ତି ଅଭିଯୋଗ ନଥିବା ପ୍ରମାଣପତ୍ର ଦେବା ସଂପର୍କେ ଉଲ୍ଲେଖ ଥିବାରୁ ଉପରୋକ୍ତ ଦୁଇଗୋଟି ଚିଠି ଉପସ୍ଥିତ ଗ୍ରାମବାସୀଙ୍କୁ ପଢ଼ି ଶୁଣାଇ ଦିଆଗଲା ଓ ଗ୍ରାମବାସୀମାନଙ୍କର ମତାମତ ଆହ୍ଵାନ କରାଯାଇଥିଲା । ଉକ୍ତତାଇଭର୍ସନ ପ୍ରସ୍ତାବର ଉଦ୍ଦେଶ୍ୟ ଏବଂ ତାର କାର୍ଯ୍ୟକାରୀତା ତଥା କ୍ଷତିପୂରଣ ଓ ସୁଧାର ବ୍ୟବସ୍ଥା ସମ୍ବନ୍ଧରେ ଜଙ୍ଗଲ ସଂରକ୍ଷଣ ଆଇନ୍-୧୯୮୦ ର ନିୟମାବଳୀ ପରିପ୍ରେକ୍ଷାରେ ଗ୍ରାମସଭାରେ ବିଶଦ ଭାବରେ ଆଲୋଚନା କରାଯାଇଥିଲା ।

ଉପରୋକ୍ତ ଜଙ୍ଗଲ ଜମିର ତାଇଭର୍ସନ ପ୍ରଯୋଜାକୁ ଆଖିଆଗରେ ରଖି ଅନୁସୂଚିତ ଜନଜାତି ଓ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀଙ୍କର (ଜଙ୍ଗଲ ଅଧିକାର ସ୍ଵୀକୃତି) ଆଇନ୍-୨୦୦୬,ନିୟମ୨୦୦୭ ର ସମସ୍ତ ନୀତି ଓ ନିୟମାବଳୀ ସମ୍ବନ୍ଧରେ ଗ୍ରାମସଭା ବୈଠକରେ ପୁଞ୍ଜୀନୁପୁଞ୍ଜ ଭାବରେ ଅନୁଧ୍ୟାନ କରାଯାଇଥିଲା । ଉକ୍ତ ତାଇଭର୍ସନ ପ୍ରସ୍ତାବିତ ଜଙ୍ଗଲଜମିରେ କୌଣସି ଅନୁସୂଚିତ ଜନଜାତି ଓ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀ ତଥା ଆଦିମ ଅଧିବାସୀ ଉକ୍ତ ଜଙ୍ଗଲଜମିରେ ଚାଷ, ଘର କିମ୍ବା ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବୃକ୍ଷି କରୁନାହାନ୍ତି ଏବଂ ଏଥି ମଧ୍ୟରେ କୌଣସି ଅନୁସୂଚିତ ଜନଜାତି ଏବଂ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀଙ୍କୁ ବ୍ୟକ୍ତିଗତ ବା ସାମୁହିକ ଜଙ୍ଗଲ ଅଧିକାର ସ୍ଵୀକୃତି ପ୍ରଦାନ କରାଯାଇନାହିଁ ।

ଉପସ୍ଥିତ ଥିବା ଗ୍ରାମବାସୀମାନେ ଖଣି କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦ୍ଵାରା ଆଞ୍ଚଳିକ ଉନ୍ନୟନ ପାଣ୍ଠିରୁ ପାରିପାର୍ଶ୍ଵିକ ଗ୍ରାମମାନଙ୍କରେ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ଓ ନିୟୁକ୍ତି ପ୍ରଦାନ କ୍ଷେତ୍ରରେ ଅବହେଳା କରିଥିବାରୁ କ୍ଷୋଭ ପ୍ରକାଶ କରିଥିଲେ । ଏହାର ଆଶୁ ସମାଧାନ ଦିଗରେ ନିମ୍ନମତେ ପଦକ୍ଷେପ ମାନ ଖଣି କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦ୍ଵାରା ନିଆଯିବାର ଖଣି କର୍ତ୍ତୃପକ୍ଷ ସଭାରେ ପ୍ରକାଶ କରିଥିଲେ ।

- ୧. ପାରିପାର୍ଶ୍ଵିକ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ସମ୍ପାଦନ ପାଇଁ ଏକ କମିଟି ଗଠନ କରାଯାଇ କମିଟିରେ ଗ୍ରାମପଞ୍ଚାୟତ ର ସରପଞ୍ଚ, ଜିଲ୍ଲାପରିଷଦ ସଭ୍ୟ ଓ ପଞ୍ଚାୟତ ସମିତି ସଭ୍ୟକୁ ରଖାଯାଇ ତାଙ୍କର ମତାମତ ଅନୁସାରେ ପାରିପାର୍ଶ୍ଵିକ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ସମ୍ପାଦନ କରାଯିବ ।

[Handwritten signature]
Consd. P/2

୨. ନିୟୁତ୍ତି କ୍ଷେତ୍ରରେ କଣ୍ଟ୍ରୋଲ୍ ଲେବର ହିସାବରେ ନିଆଯାଇଥିବା ବ୍ୟକ୍ତିଙ୍କୁ ଠିକା ଶ୍ରମିକ ଭାବେ ବର୍ଷତମାମ କାର୍ଯ୍ୟରତ ରହିବା, ଏତଦ୍‌ବ୍ୟତିତ ଯେଉଁ ପରିବାରରେ କୌଣସି ବ୍ୟକ୍ତି ଆଦୌ କାର୍ଯ୍ୟ କରୁନାହାନ୍ତି, ସେହି ପରିବାରକୁ ବିହୀନ କରାଯାଇ ପୁରୁଷ କିମ୍ବା ମହିଳାଙ୍କୁ ଠିକା ଶ୍ରମିକ ଭାବେ କାର୍ଯ୍ୟ କରିବାପାଇଁ ଓ ଏହି ବ୍ୟକ୍ତିମାନଙ୍କର ଚାଲିକା ଗ୍ରାମ ପଞ୍ଚାୟତର ସରପଞ୍ଚଙ୍କ ଜରିଆରେ ଦିଆଯିବା ପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରକାଶ କରିଥିଲେ ।
୩. ଜମି ହରାଇଥିବା ପରିବାରଙ୍କ ସଦସ୍ୟଙ୍କୁ ସ୍ଥାୟୀ ରୂପେ ଚାକିରିରେ ନିୟୁତ୍ତି ଦିଆଯିବାପାଇଁ କମ୍ପାନୀର ନିୟମାନୁସାରେ ପଦକ୍ଷେପ ନିଆଯିବାକୁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଲେ ।
୪. ମ୍ୟାଟ୍ରିକ୍ ବା ତତୁଲ୍ୟ ଯୋଗ୍ୟତା ଥିବା ବ୍ୟକ୍ତି ବିଶେଷଙ୍କୁ କମ୍ପାନୀରେ ସ୍ଥାୟୀ ନିୟୁତ୍ତି ଦିଆଯିବା ପ୍ରକ୍ରିୟାରେ ଗ୍ରାମବାସୀଙ୍କୁ ଅଗ୍ରାଧିକାର ଦିଆଯିବାପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଲେ ।
୫. ଠିକା ଶ୍ରମିକ ଭାବେ (ଜବ୍ କଣ୍ଟ୍ରୋଲ୍) କଣ୍ଟ୍ରୋଲ୍ ଲେବରରେ କାର୍ଯ୍ୟକରୁଥିବା ସ୍ଥାନୀୟ ଗ୍ରାମବାସୀଙ୍କୁ କମ୍ପାନୀର ଆବଶ୍ୟକତା ଅନୁଯାୟୀ ସ୍ଥାୟୀ ନିୟୁତ୍ତି ପ୍ରକ୍ରିୟାରେ ଅଗ୍ରାଧିକାର ଦିଆଯିବାପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଇଥିଲେ ।

ଉପରୋକ୍ତ ପ୍ରତିଶ୍ରୁତି ଗୁଡ଼ିକର ପ୍ରକ୍ରିୟାକରଣ ୩ ମାସ ମଧ୍ୟରେ ଆବଶ୍ୟକ ଅନୁଯାୟୀ ପାଳନ କରାଯିବା ଦିଗରେ ଗ୍ରାମପଞ୍ଚାୟତ ର ନିର୍ବାଚିତ ପ୍ରତିନିଧିଙ୍କ ସହ ଆଲୋଚନା କରାଯାଇ ପଦକ୍ଷେପ ମାନ ନିଆଯିବା ସକାଶେ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ଉପସ୍ଥିତ ଥିବା ଗ୍ରାମବାସୀ ମାନଙ୍କୁ ଦୃଢ଼ ପ୍ରତିଶ୍ରୁତି ଦେଇଥିଲେ ।

ବିଶେଷ ଆଲୋଚନା ପର୍ଯ୍ୟାଲୋଚନା ପରେ ବଲାଣି , ବାଲାଗୋଡ଼ା , ନିମତୁର ଗ୍ରାମର କାର୍ଯ୍ୟ ସଂରକ୍ଷିତ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୧୨୨୫.୭୮ ହେକ୍ଟର ଓ ୫୦୨.୨୨ ହେକ୍ଟର ମିଶାଇ ମୋଟ ୧୭୩୨.୦୦ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମି ଉପରେ ମେସର୍ସ ସେଲ୍-ବଲାଣା ଓର୍ସ ମାଇନିଂ ଦ୍ୱାରା ଖଣି ଖନନ, କାରଖାନା ଓ ଅନ୍ୟାନ୍ୟ ଆନୁସଙ୍ଗିକ କାର୍ଯ୍ୟ ପାଇଁ ବ୍ୟବହାର କରାଗଲେ ଗ୍ରାମବାସୀଙ୍କର କୌଣସି ଆପତ୍ତି ଅଭିଯୋଗ ନଥିବା ପ୍ରମାଣପତ୍ର ଦିଆଯିବା ନିମନ୍ତେ ସର୍ବସମ୍ମତକ୍ରମେ ପ୍ରସ୍ତାବ ଗୃହୀତ ହୋଇ ବିଭାଗୀୟ କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦୃଷ୍ଟି ଆକର୍ଷଣ କରାଗଲା ଓ ଉକ୍ତ ଗ୍ରାମସଭାରେ ଉପସ୍ଥିତ ସମସ୍ତ ସଭ୍ୟଙ୍କର ସ୍ୱାକ୍ଷର ଏହାସହିତ ସଂଲଗ୍ନ କରାଗଲା ।

ସର୍ବଶେଷରେ ସଭାପତିଙ୍କୁ ଧନ୍ୟବାଦ ଅର୍ପଣ କରାଯାଇ ସଭାଭଙ୍ଗ କରାଗଲା ।

ସଂପୂର୍ଣ୍ଣ ଥି: ପ୍ରମାଣିକ
ମହା ପ୍ରମାଣିକ

D. B. Singh
Executive Officer
BOLANI GRAM-PANCHAYAT

ସରପଞ୍ଚ
ବଲାଣି ଗ୍ରାମପଞ୍ଚାୟତ

Hemanta Singh
Sarapanch
Bolani Gram Panchayat
21/10/11

① *Kousalya Patra
Right
Forest Committee President

Samal Naik
Forest Right Committee, Secy

Rhemji Lal Das
Forest Right Committee member

Kumudini Naik
KUMUDINI NAIK
ZILLA PARISHAD MEMBER
ZONE-26 DIST KEONJHAR

Japai Nam
Forest Right Committee
member

Lochan Naik - Forest Right Committee member

दासजी नायक
Forest Right Committee member

बिप्लव

KISHNA GUYA - ward member

Prinod Kumar Mahakud - ward member

Nimiga Lagan - ward member

~~Pranab Das - ward member~~

Georanga Sethy - Naib Sarapanch

बिप्लव - ward member

बिप्लव - ward member

Pirrad. Nis - ward member

par she munda - ward member

GRAMASABHA MEETING

Village : Bolani

Date : 01-10-2011

Place : Bolani Village

Time : 11.00 AM

Today on 01-10-2011, Friday a Gramsabha was conducted under the chairmanship of the Sarpanch of Bolani Grampanchayat Shrimati Hemalata Singh, in the village Bolani at 11.00 A.M. The elected representative of Grampanchayat, Grampanchayat Executive Officer, Bolani, Members of Forest Rights committee & more than 60% voters of Bolani village attended the above meeting .

Proposal - The Sarpanch discussed the objective of the Gramsabha in details . According to the letters of Tahasildar Barbil vide no 2989 dt 17-08-2011, -and vide no 3301 dt 12-09-2011, Gramsabha resolution will be submitted for the diversion proposals of M/s SAIL, Bolani for 1152.58 hecets forest land (including 73.2 hectares safety zone it comes to 1225.78 hecets forest land in total) coming under Karo RF and village/KF of Bolani and Balagoda Mouza, and for diversion of 506.22 hecets forest land coming under Karo RF and village/KF of Bolani , Balagoda and Limtur Mouza respectively, for Non Forest (Mining and allied Purpose) and the above two letters were read out to the villagers for obtaining their consent for the above said diversion proposals in view of submitting no-objection certificate . The aims and objectives of the above said diversion proposal was discussed in the above meeting in details in the context of ensuring compliance of Rules and Regulations of Forest Conservation Act 1980.

Keeping the proposals for diversion of the above said forest lands inside the Mining Leases in view, the provisions of Rules & Regulations of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act,2006,Rule 2007,were examined in details in the Gramasabha for ensuring their compliance . In the proposed forest diversion land, there is no agricultural land, residence and traditional business by any Scheduled Tribe and Traditional Forest Dwellers including primitive tribal groups & pre-agricultural communities . No lands and forest rights have been allotted to any individual or collective scheduled tribes and traditional forest dwellers .

The villagers expressed their dissatisfaction with the mines management for the negligence in utilising the developmental fund towards the peripheral developmental works of the villages and in employment process . To resolve the above issues , the Mines Authority informed the following measures :

1. Sarpanch, Zilla Parishad and Panchayat Members will be included in the committee to finalise the peripheral developmental works under CSR in the villages .
2. The villagers engaged in the contract labour will be put under annual contracts . Sarpanch of the Grampanchayat will submit a list of families with no working member to the management for subsequent engagement of contract labour on requirement .
3. Steps will be initiated for permanent employment of the land losers as per rules.

Contd. 8/2

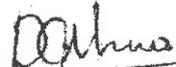
4. In the event of recruitment, to fill up vacancies of BOM natives of the peripheral villages having Matriculation or equivalent qualification will be given preference and consideration .
5. The villagers engaged in contract labour in the mines with Matriculation or equivalent qualification will be given preference and consideration in the recruitment process .

The Mine authority agreed to give priority to those local villagers who are working as contract labourers under job contracts during the recruitment process for permanent employment as per the requirement of the company .

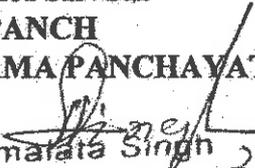
The Mine authority assured the villagers that necessary steps for implementation of the above commitments will be taken within 3 months after discussions with the elected representatives of Gram Panchayat .

After discussing all the aspects of the above said diversion proposals including benefits, compensatory and ameliorative measures, the village meeting unanimously endorsed the proposal and resolved in favour of the diversion of total 1732.00 hectares forest land involving 1225.78 hectares forest land in Bolani, Balagoda and Karo RF in one lease and 506.22 hectares forest land in Bolani, Balagoda, Limtur and Karo RF in the other lease of M/s SAIL, Bolani, for carrying out mining, factories and other allied activities on the above forest land and unanimously agreed for grant of Forest Clearance and No Objection Certificate .

At last , the meeting ended with the vote of thanks to the chair .


Executive Officer/x/11
BOLANI GRAM PANCHAYAT

HEMALATA SINGH
SARPANCH
BOLANI GRAMA PANCHAYAT


Hemalata Singh
Sarapanch
Bolani Gram Panchayat 21/10/11

ଗ୍ରାମ - ବାଲଗୋଡ଼ା
ତା ୧୭-୧୦-୨୦୧୧ ରିଖ
ସ୍ଥାନ-ବାଲଗୋଡ଼ା କୋଡୁବନ୍ଧି
ସମୟ - ପୂର୍ବାହ୍ନ ୧୦ ଘଣ୍ଟା.

ANNEXURE- X

ଅନ୍ୟ ତା ୧୭-୧୦-୨୦୧୧ରିଖ ସୋମବାର ଦିନ ବାଲଗୋଡ଼ା ଗ୍ରାମର କୋଡୁବନ୍ଧି ଠାରେ ପୂର୍ବାହ୍ନ ୧୦ ଘଣ୍ଟା ସମୟରେ ବାଲଗୋଡ଼ା ଗ୍ରାମ ପଞ୍ଚାୟତର ସରପଞ୍ଚ ଶ୍ରୀଯୁକ୍ତ ଗୌରାଙ୍ଗ ମୁଣ୍ଡାଙ୍କ ସଭାପତିତ୍ୱରେ ଏକ ଗ୍ରାମସଭା ଅନୁଷ୍ଠିତ ହୋଇଥିଲା । ଉକ୍ତ ସଭାରେ ଗ୍ରାମ ପଞ୍ଚାୟତର ନିର୍ବାଚିତ ପ୍ରତିନିଧି , ଯୋଡା ଗ୍ରାମ ପଞ୍ଚାୟତ ନିର୍ବାହୀ ଅଧିକାରୀ, ଫରେଙ୍କ ରାଇଟ୍ କମିଟିର ସଦସ୍ୟ ଓ ଗ୍ରାମର ୬୦ ପ୍ରତିଶତରୁ ଊର୍ଦ୍ଧ୍ୱ ଭୋଟର ଯୋଗ ହେଇଥିଲେ ।

ପ୍ରସ୍ତାବ - ଗ୍ରାମସଭାର ଉଦ୍ଦେଶ୍ୟ ସଂପର୍କରେ ସରପଞ୍ଚ ମହାଶୟ ବିଶ୍ୱ ଉପରେ ଆଲୋଚନା କରିଥିଲେ । ତଦୁପଲକ୍ଷ୍ୟରେ ବଡ଼ବିଲଙ୍କ ପତ୍ରସଂଖ୍ୟା ୨୯୮୯/ତା ୧୭-୦୮-୨୦୧୧ରିଖ ଅନୁଯାୟୀ ବଲାଣୀ ଓ ବାଲଗୋଡ଼ା ଗ୍ରାମର କାରୋ ସଂରକ୍ଷିତ ଜଙ୍ଗଲ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୧୧୫୨.୫୮ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମି (ସେପଟି ଜୋନ୍ ୭୩.୨ ହେକ୍ଟର କୁ ମିଶାଇ ୧୨୨୫.୭୮ ହେକ୍ଟର) ର ତାଇଭର୍ସନ ଓ ପତ୍ରସଂଖ୍ୟା ୩୩୦୧/ତା ୧୨-୦୯-୨୦୧୧ ରିଖ ଅନୁଯାୟୀ ବଲାଣୀ, ବାଲଗୋଡ଼ା ଓ ନିମତୁର ଗ୍ରାମର କାରୋ ସଂରକ୍ଷିତ ଜଙ୍ଗଲ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୫୦୬.୨୨ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମିର ତାଇଭର୍ସନ କରାଯାଇ ବଲାଣୀ ଓ ସି ମାଇନ୍ସ ଦ୍ୱାରା ଖଣି ଖନନ,କାରଖାନା ଓ ଅନ୍ୟାନ୍ୟ ଆନୁସଙ୍ଗିକ କାର୍ଯ୍ୟ ପାଇଁ ବ୍ୟବହାର ସକାଶେ ଉପରୋକ୍ତ ଜଙ୍ଗଲ ଜମିକୁ ଅଣଜଙ୍ଗଲ ଜମିକୁ ପରିବର୍ତ୍ତନ କରାଯାଇ ଆପଣ୍ଡି ଅଭିଯୋଗ ନଥିବା ପ୍ରମାଣପତ୍ର ଦେବା ସଂପର୍କେ ଉଲ୍ଲେଖ ଥିବାରୁ ଉପରୋକ୍ତ ଦୁଇଗୋଟି ଚିଠି ଉପସ୍ଥିତ ଗ୍ରାମବାସୀଙ୍କୁ ପଢ଼ି ଶୁଣାଇ ଦିଆଗଲା ଓ ଗ୍ରାମବାସୀମାନଙ୍କର ମତାମତ ଆହ୍ୱାନ କରାଯାଇଥିଲା । ଉକ୍ତତାଇଭର୍ସନ ପ୍ରସ୍ତାବର ଉଦ୍ଦେଶ୍ୟ ଏବଂ ତାର କାର୍ଯ୍ୟକାରିତା ତଥା କ୍ଷତିପୂରଣ ଓ ସୁଧାର ବ୍ୟବସ୍ଥା ସମ୍ବନ୍ଧରେ ଜଙ୍ଗଲ ସଂରକ୍ଷଣ ଆଇନ୍-୧୯୮୦ ର ନିୟମାବଳୀ ପରିପ୍ରେଷାରେ ଗ୍ରାମସଭାରେ ବିଶ୍ୱ ଉପରେ ଆଲୋଚନା କରାଯାଇଥିଲା ।

ଉପରୋକ୍ତ ଜଙ୍ଗଲ ଜମିର ତାଇଭର୍ସନ ପ୍ରଯୋଜନା କୁ ଆଖିଆଗରେ ରଖି ଅନୁସୂଚିତ ଜନଜାତି ଓ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀଙ୍କର(ଜଙ୍ଗଲ ଅଧିକାର ସ୍ୱୀକୃତି) ଆଇନ୍-୨୦୦୬,ନିୟମ୨୦୦୭ ର ସମସ୍ତ ନୀତି ଓ ନିୟମାବଳୀ ସମ୍ବନ୍ଧରେ ଗ୍ରାମସଭା ବୈଠକରେ ପୁଞ୍ଜୀନୁପୁଞ୍ଜି ଭାବରେ ଅନୁଧ୍ୟାନ କରାଯାଇଥିଲା । ଉକ୍ତ ତାଇଭର୍ସନ ପ୍ରସ୍ତାବିତ ଜଙ୍ଗଲଜମିରେ କୌଣସି ଅନୁସୂଚିତ ଜନଜାତି ଓ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀ ତଥା ଆଦିମ ଅଧିବାସୀ ଉକ୍ତ ଜଙ୍ଗଲଜମିରେ ତାଣ, ଘର କିମ୍ବା ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବୃତ୍ତି କରୁନାହାନ୍ତି ଏବଂ ଏଥି ମଧ୍ୟରେ କୌଣସି ଅନୁସୂଚିତ ଜନଜାତି ଏବଂ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀଙ୍କୁ ବ୍ୟକ୍ତିଗତ ବା ସାମୁହିକ ଜଙ୍ଗଲ ଅଧିକାର ସ୍ୱୀକୃତି ପ୍ରଦାନ କରାଯାଇନାହିଁ ।

ଉପସ୍ଥିତ ଥିବା ଗ୍ରାମବାସୀମାନେ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ଙ୍କ ଦ୍ୱାରା ଆଞ୍ଚଳିକ ଉନ୍ନୟନ ପାଣ୍ଠିରୁ ପାରିପାର୍ଶ୍ୱିକ ଗ୍ରାମମାନଙ୍କରେ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ଓ ନିୟୁକ୍ତି ପ୍ରଦାନ କ୍ଷେତ୍ରରେ ଅବହେଳା କରିଥିବାରୁ କ୍ଷୋଭ ପ୍ରକାଶ କରିଥିଲେ । ଏହାର ଆଶୁ ସମାଧାନ ଦିଗରେ ନିମ୍ନମତେ ପଦକ୍ଷେପ ମାନ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ଙ୍କ ଦ୍ୱାରା ନିଆଯିବାର ଖଣି କର୍ତ୍ତୃପକ୍ଷ ସଭାରେ ପ୍ରକାଶ କରିଥିଲେ ।

୧. ପାରିପାର୍ଶ୍ୱିକ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ସମ୍ପାଦନ ପାଇଁ ଏକ କମିଟି ଗଠନ କରାଯାଇ କମିଟିରେ ଗ୍ରାମପଞ୍ଚାୟତ ର ସରପଞ୍ଚ,ଢିଲ୍ଲୀପରିଷଦ ସଭ୍ୟ ଓ ପଞ୍ଚାୟତ ସମିତି ସଭ୍ୟକୁ ରଖାଯାଇ , ତାଙ୍କର ମତାମତ ଅନୁସାରେ ପାରିପାର୍ଶ୍ୱିକ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ସମ୍ପାଦନ କରାଯିବ ।

Executive Officer
Balasode G. P.

SARPANCH
Balasode Gram Panchayat
P.O. Bolani, Dist-Keonjhar

୨. ନିୟୁତ୍ତ ଚଷମାକୁ କଣ୍ଟ୍ରୋଲ୍ କଲେବର ହିସାବରେ ନିର୍ଦ୍ଦାୟାକରଣ ବ୍ୟବସ୍ଥା ପକ୍ଷରୁ ଠିକା ଗ୍ରାମୀଣ ଭାବେ ବ୍ୟବହାର କାର୍ଯ୍ୟରେ ରହିବା, ଏବଂ ବ୍ୟତିତ ଯେଉଁ ପରିସରରେ କୌଣସି ବ୍ୟକ୍ତି ଆଦୌ କାର୍ଯ୍ୟ କରୁନାହାନ୍ତି ସେହି ପରିସରକୁ ଚିହ୍ନିତ କରାଯାଇ ପୁରୁଷ କିମ୍ବା ମହିଳାଙ୍କୁ ଠିକା ଗ୍ରାମୀଣ ଭାବେ କାର୍ଯ୍ୟ କରିବା ପାଇଁ ଓ ଏହିବ୍ୟକ୍ତିଙ୍କର ତାଲିକା ଗ୍ରାମ ପଞ୍ଚାୟତ ର ସରପଞ୍ଚଙ୍କ କରିଆରେ ଦିଆଯିବା ପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରକାଶ କରିଥିଲେ ।

୩. ଜମି ହରାଇଥିବା ପରିସରଙ୍କ ସହସ୍ୟଙ୍କୁ ସ୍ଥାୟୀ ରୂପେ ଚାକିରିରେ ନିଯୁକ୍ତି ଦିଆଯିବାପାଇଁ କମ୍ପାନୀର ନିୟମାନୁସାରେ ପଦକ୍ଷେପ ନିଆଯିବାକୁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଲେ ।

୪. ମ୍ୟାଟ୍ରିକ୍ ବା ତତୁଲ୍ୟ ଯୋଗ୍ୟତା ଥିବା ବ୍ୟକ୍ତି ବିଶେଷଙ୍କୁ କମ୍ପାନୀରେ ସ୍ଥାୟୀ ନିଯୁକ୍ତି ଦିଆଯିବା ପ୍ରକ୍ରିୟାରେ ଗ୍ରାମବାସୀଙ୍କୁ ଅଗ୍ରାଧିକାର ଦିଆଯିବାପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଲେ ।

୫. ଠିକା ଗ୍ରାମୀଣ ଭାବେ (ଜବ୍ କଣ୍ଟ୍ରାକ୍ଟ୍) କଣ୍ଟ୍ରାକ୍ଟ୍ ଲେବର୍ ରେ କାର୍ଯ୍ୟକରୁଥିବା ସ୍ଥାନୀୟ ଗ୍ରାମବାସୀଙ୍କୁ କମ୍ପାନୀର ଆବଶ୍ୟକତା ଅନୁଯାୟୀ ସ୍ଥାୟୀ ନିଯୁକ୍ତି ପ୍ରକ୍ରିୟାରେ ଅଗ୍ରାଧିକାର ଦିଆଯିବାପାଇଁ ଖଣିକର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଇଥିଲେ ।

ଉପରୋକ୍ତ ପ୍ରତିଶ୍ରୁତି ଗୁଡ଼ିକର ପ୍ରକ୍ରିୟାକରଣ ୩ ମାସ ମଧ୍ୟରେ ଆବଶ୍ୟକ ଅନୁଯାୟୀ ପାଳନ କରାଯିବା ଦିଗରେ ଗ୍ରାମପଞ୍ଚାୟତ ର ନିର୍ବାଚିତ ପ୍ରତିନିଧିଙ୍କ ସହ ଆଲୋଚନା କରାଯାଇ ପଦକ୍ଷେପ ମାନ ନିଆଯିବା ସକାଶେ ଖଣିକର୍ତ୍ତୃପକ୍ଷ ଉପସ୍ଥିତ ଥିବା ଗ୍ରାମବାସୀ ମାନଙ୍କୁ ଦୃଢ଼ ପ୍ରତିଶ୍ରୁତି ଦେଇଥିଲେ ।

ବିଶେଷ ଆଲୋଚନା, ପର୍ଯ୍ୟାଲୋଚନା ପରେ ବଲାଶି, ବାଲାଗୋଡ଼ା ର କାରୋ ସଂରକ୍ଷିତ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୧୨୨୫.୭୮ ହେକ୍ଟର ଏବଂ ବଲାଶି, ବାଲାଗୋଡ଼ା ଓ ନିମତୁର ଗ୍ରାମ ର କାରୋ ସଂରକ୍ଷିତ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୫୦୬.୨୨ ହେକ୍ଟର ମିଶାଇ ମୋଟ ୧୭୩୨.୦୦ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମି ଉପରେ ମେସର୍ସ ସେଲ୍-ବଲାଶି ଓର୍ସ ମାଇନ୍ସ ଦ୍ୱାରା ଖଣି ଖନନ, କାରଖାନା ଓ ଅନ୍ୟାନ୍ୟ ଆନୁସଙ୍ଗିକ କାର୍ଯ୍ୟ ପାଇଁ ବ୍ୟବହାର କରାଗଲେ ଗ୍ରାମବାସୀ ଙ୍କର କୌଣସି ଆପଣ୍ଡି ଅଭ୍ୟୋଗ ନଥିବା ପ୍ରମାଣପତ୍ର ଦିଆଯିବା ନିମନ୍ତେ ସର୍ବ ସମ୍ମତିକ୍ରମେ ପ୍ରସ୍ତାବ ଗୃହୀତ ହୋଇ ବିଭାଗୀୟ କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦୃଷ୍ଟି ଆକର୍ଷଣ କରାଗଲା ଓ ଉକ୍ତ ଗ୍ରାମସଭାରେ ଉପସ୍ଥିତ ସମସ୍ତ ସଭ୍ୟଙ୍କର ସ୍ୱାକ୍ଷର ଏହାସହିତ ସଂଲଗ୍ନ କରାଗଲା ।

ସର୍ବଶେଷରେ ସଭାପତିଙ୍କୁ ଧନ୍ୟବାଦ ଅର୍ପଣ କରାଯାଇ ସଭାଭଙ୍ଗ କରାଗଲା

Narentra P. Pramanik
General Manager
SAIL, Bolani open Mines

SARPANCH
Balagoda Gram Panchayat
Po. Bolani, Dist-Keonjhar
ବାଲାଗୋଡ଼ା ଗ୍ରାମପଞ୍ଚାୟତ

Chandra Mohan Mandal
Forest Right Committee President

[Signature]
Executive Officer
Balagoda G.P.

② *[Signature]*
Forest Right Committee Secy

Kumudini Nayak
KUMUDINI NAYAK
ZILLA PARISHAD MEMBER
ZONE-26 DIST KEONJHAR

[Signature]
Nayak, Sarpanch
Balagoda G.P.

Sakumoni Karna
P.S Member
Balagoda G.P.

Birkal Manda

Suresh chandra Naik

Forest committee membership

Suri runda ward No 16
ward member

Sailendri Naik

Sobha katha
ward member no - 17

* Rajojee Manda

Durgadhar Gaudel

Forest membership

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

Ward membership

ଓଡ଼ିଆ ଗୋପାଳ

ward membership no 13

Jayanti Mior Manda
ward membership no - 14

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

ward membership 21

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

ward membership - 10

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

ward membership - 11

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

ward member - 9

Azad Salun

Ward no - 6

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ - forest committee

* Meghana Patra

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

Sarajan Manda

Rajaram Munda

GRAMASABHA MEETING ANNEXURE - XI

Village : Balagoda
Date : 17-10-2011
Place : Balagoda Kolha Basti ✓
Time : 10.00 AM

Today on 17-10-2011, Monday a Gramsabha was conducted under the chairmanship of the Sarpanch of Balagoda Grampanchayat Shri Gouranga Munda, in the village Balagoda at Kolha Basti at 10.00 AM. The elected representative of Grampanchayat, Grampanchayat Executive Officer, Joda, Members of Forest Rights committee & more than 60% voters of Balagoda village attended the above meeting.

Proposal - The Sarpanch discussed the objective of the Gramsabha in details. According to the letters of Tahasildar Barbil vide no 2989 dt 17-08-2011, and vide no 3301 dt 12-09-2011, Gramsabha resolution will be submitted for the diversion proposals of M/s SAIL, Bolani for 1152.58 hecets forest land (including 73.2 hectares safety zone it comes to 1225.78 hecets forest land in total) coming under Karo RF and village/KF of Bolani and Balagoda Mouza, and for diversion of 506.22 hecets forest land coming under Karo RF and village/KF of Bolani, Balagoda and Limtur Mouza respectively, for Non Forest (Mining and allied Purpose) and the above two letters were read out to the villagers for obtaining their consent for the above said diversion proposals in view of submitting no-objection certificate. The aims and objectives of the above said diversion proposal was discussed in the above meeting in details in the context of ensuring compliance of Rules and Regulations of Forest Conservation Act 1980.

Keeping the proposals for diversion of the above said forest lands inside the Mining Leases in view, the provisions of Rules & Regulations of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, Rule 2007, were examined in details in the Gramasabha for ensuring their compliance. In the proposed forest diversion land, there is no agricultural land, residence and traditional business by any Scheduled Tribe and Traditional Forest Dwellers including primitive tribal groups & pre-agricultural communities. No lands and forest rights have been allotted to any individual or collective scheduled tribes and traditional forest dwellers.

The villagers expressed their dissatisfaction with the mines management for the negligence in utilising the developmental fund towards the peripheral developmental works of the villages and in employment process. To resolve the above issues, the Mines Authority informed the following measures:

1. Sarpanch, Zilla Parishad and Panchayat Members will be included in the committee to finalise the peripheral developmental works under CSR in the villages.
2. The villagers engaged in the contract labour will be put under annual contracts. Sarpanch of the Grampanchayat will submit a list of families with no working member to the management for subsequent engagement of contract labour on requirement.
3. Steps will be initiated for permanent employment of the land losers as per rules.

4 In the event of recruitment, to fill up vacancies of BOM natives of the peripheral villages having Matriculation or equivalent qualification will be given preference and consideration .

5. The villagers engaged in contract labour in the mines with Matriculation or equivalent qualification will be given preference and consideration in the recruitment process .

The Mine authority agreed to give priority to those local villagers who are working as contract labourers under job contracts during the recruitment process for permanent employment as per the requirement of the company .

The Mine authority assured the villagers that necessary steps for implementation of the above commitments will be taken within 3 months after discussions with the elected representatives of Gram panchayat .

After discussing all the aspects of the above said diversion proposals including benefits, compensatory and ameliorative measures, the village meeting unanimously endorsed the proposal and resolved in favour of the diversion of total 1732.00 hectares forest land involving 1225.78 hectares forest land in Bolani, Balagoda and Karo RF in one lease and 506.22 hectares forest land in Bolani, Balagoda, Limtur and Karo RF in the other lease of M/s SAIL, Bolani, for carrying out mining, factories and other allied activities on the above forest land and unanimously agreed for grant of Forest Clearance and No Objection Certificate .

At last , the meeting ended with vote of thanks to the chair .


SARPANCH
Balagoda Gram Panchayat
GOURANGA MUNDA
Po. Bolani, Dist-Keonjhar
SARPANCH
BALAGODA GRAMA PANCHAYAT

Annexure-XIII

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for Diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
95	876/1337	149	RAKHITA	GHARABARI	0.73	0.267	250	Sala Jungle
96	28/1363	149	RAKHITA	NAYANAJORI	0.4	0.007	190	Sala Jungle
97	102/1366	149	RAKHITA	NAYANAJORI	1	0.170	256,257	Sala Jungle
98	172/1367	149	RAKHITA	NAYANAJORI	1.15	0.079	256,257	Sala Jungle
99	692/1376	149	RAKHITA	RAILROAD	1.12	0.013	250,260,262	Sala Jungle
100	686/1378	149	RAKHITA	NAYANAJORI	0.7	0.023	257	Sala Jungle
101	780/1384	149	RAKHITA	ROAD	0.03	0.009	17	Sala Jungle
102	694/1395	149	RAKHITA	ROAD	0.15	0.005	250	Sala Jungle
103	69/1406	100	RAYA MAHAKUDU & OTHERS	TAILA-I	0.01	0.004	-	-
104	876/1428	61	PADMANAVA NAIK	GHARABARI	0.48	0.190	-	Not Available
Total Non-forest land of Bolani Village, recorded as forest as on 25.10.1980, applied for diversion under Section-2(ii) of FC Act						74.452		

Village-Limtur

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
1	32	18	LACMAN MUNDA	TAILA-I	1.91	0.096	73	-
2	52	25	RAKHITA	GOCHARA	0.22	0.032	2	Jungle
3	62	27	ABADA JOGYA ANABADI	PATITA	0.3	0.137	1	Jungle
4	63	25	RAKHITA	BASTI JOGYA	2.68	0.327	1	Jungle

12

* "Not Available", "Un-surveyed", "Not-mentioned" have been Considered as forest for diversion purpose.
** Detailed as per authenticated land schedule & Certificate of Tahasildar, Barbil

[Signature]
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

[Signature]
T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, ज्योझर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

[Signature]
Tahasildar
Barbil Range

[Signature]
TAHASILDAR
BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
5	64	26	SARBASADHARANA	ROAD	0.6	0.073	2	Jungle
6	67	26	SARBASADHARANA	ROAD	0.14	0.019	2	Jungle
7	68	25	RAKHITA	UNNATA YOJANA	1.68	0.221	1	Jungle
8	74	25	RAKHITA	GOCHARA	14.84	2.738	1,2	Jungle
9	76	25	RAKHITA	SARBASAD HARANA	0.72	0.008	1,2	Jungle
10	77	5	JAYARAM MUNDA	TAILA-II	1.00	0.002	100	Not availabe
11	79	2	ANANTA / DHANUARA ORAM	TAILA-I	1.50	0.006	46/4/106	Not availabe
12	80	16	MOHAN ORAM	TAILA-II	2.06	0.072	47/1/120	Not availabe
13	81	24/4	JAGDISH CHANDRA TAMASHYA	TAILA-I	2.42	0.135	47/66	-
14	84	20	SAMU CHARAN MUNDA & OTHERS	TAILA-I	4.60	0.415	46/2/99	Not availabe
15	92	23	SINGA MUNDA	TAILA-I	0.80	0.029	101	Not availabe
16	93	27	ABADA JOGYA ANABADI	TAILA-I	0.4	0.093	1	Jhati jungle
17	95	27	ABADA JOGYA ANABADI	TAILA-II	0.24	0.052	2	Jungle
18	97	27	ABADA JOGYA ANABADI	GHRABAR I	0.09	0.022	2	Jungle
19	112	27	ABADA JOGYA ANABADI	GHRABAR I	0.15	0.025	2	Jungle
20	115	26	SARBASADHARANA	ROAD	0.32	0.011	11	Jungle

13

* "Nor Available", "Un-surveyed", "Nor-mentioned" have been Considered as forest for diversion purposes.

** Detailed as per authenticated Land schedule & Certificate of Tahasildar, Barbil

Handwritten Signature
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

Handwritten Signature
T. K. Roy
Mines Manager
Bolan Ore Mines, SAIL

महोपनिधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी - अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, नयाँझर, ओडीसा
Bolan-758 037, Keonjhar, Odisha

Handwritten Signature
Forest Range Officer
Barbil Range

Handwritten Signature
TAHASILDAR
BARBIL

SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON 25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980

Sl	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
21	128	28	ABADA AJOGYA ANABADI	NALA	0.20	0.009	16	Jungle
22	134	27	ABADA JOGYA ANABADI	TAILA-I	0.48	0.072	27	Patita jungle
23	158	27	ABADA JOGYA ANABADI	TAILA-I	0.34	0.000	27	Patita jungle
24	159	27	ABADA JOGYA ANABADI	TAILA-I	1.2	0.108	27	Patita jungle
25	161	9	DHANUAR ORAM	TAILA-I	1.12	0.065	102	-
26	162	27	ABADA JOGYA ANABADI	TAILA-I	0.85	0.052	27	Patita jungle
Total Non-forest land of Limtur Village, recorded as forest as on 25.10.1980, applied for diversion under Section-2(ii) of FC Act						4.819		

Abstract of 124.313 ha non-forest land recorded As forest as on 25.10.1980 Applied for diversion under section- 2(ii) of F C Act

Sl No	Name of Village	Area in Ha
1	Balagoda	45.042
2	Bolani	74.452
3	Limtur	4.819
4	Total	124.313

[Signature]
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

[Signature]
T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

[Signature]
महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी - अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्यॉंझर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

14

[Signature]
7/XII/2013
Forest Range Officer
Barbil Range

[Signature]
TAHASILDAR
BARBIL

COUNTERSIGNED

[Signature]
Divisional Forest Officer,
Keonjhar Division

* "Not Available", "Un-surveyed", "Not-mentioned" have been considered as forest for diversion purposes.
 ** Detailed as per authenticated Land schedule & Certificate of Tahasildar, Barbil

Annexure-XIV

Annexure-II



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
 रॉ मेटेरियल्स डिवीजन
RAW MATERIALS DIVISION
 बोलानी अयस्क खदान
BOLANI ORES MINES

Date: 09.04.2018

UNDERTAKING

I, on behalf of Bolani Ores Mines, M/s SAIL, hereby undertake to comply the following conditions as stipulated in Stage-I FC Order vide F.No.8-87/1996-FC(Vol.I) Dt.12.09.2017 granted by MoEF & CC,GOI :

1. That the legal status of diverted Forest land will remain unchanged.
2. That the additional amount of Net Present Value(NPV), if so determined, as per the final decision of Hon'ble Supreme Court of India shall be paid by Bolani Ores Mines, M/s SAIL to the State Govt. of Odisha.
3. That the period of diversion of Forest Land shall be for the period coterminous with the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act,1957, as amended and the Rules frames thereunder.
4. That no labour camp will be established on the above forest land.
5. That alternate fuels will be provided to the labourers and staff of BOM working at the site so as to avoid any damage and pressure on the nearby forest areas.
6. That no Changes in layout plan of the mining plan/ proposal shall be done without prior approval of the Central Government .
7. That the forest land will not be used for any purpose other than that specified in the proposal.
8. That the forest land proposed to be diverted will not be transferred to any other agency, department or person without prior approval of the Central Government.
9. That no damage to the flora and fauna of the adjoining area will be caused.
10. That any tree felling will be done only when it is unavoidable and that too under strict supervision of the Odisha State Forest Department.
11. That Bolani Ores Mines will abide by the applicable recommendations of the Odisha State Government.
12. That the annual self - compliance report in respect of the conditions stipulated in the Stage-I FC Grant Order will be submitted to the State Government, concerned Regional Office and to the Ministry by the end of March every year.
13. That additional conditions stipulated by Regional Office of Ministry, from time to time, in the interest of conservation, protection and development of forests & wildlife will be complied.
14. That Bolani Ores Mines shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order(s) and National Green Tribunal Order(s) pertaining to the project, if any, for the time being in force, as applicable to the project.
15. That the remaining 99.032 ha Sabik kisam forest land not likely to be used for non-forest purpose and the portion located in safety zone will be protected and preserved by Bolani Ores Mines, M/s SAIL at the project cost , in facilitation and vigil of DFO Keonjhar , in compliance to the additional condition no -(D) stipulated by F&E Department of Govt of Odisha
16. That Bolani Ores Mines, M/s SAIL will pay the excess amount in case of anticipated increase for works scheduled for subsequent years against the scheme of Compensatory Afforestation over 248.626ha. degraded forest land identified in Chhatam RF(Hathidharsa Block) in Rajgangpur Range of Rourkela Forest Division .
17. That Bolani Ores Mines, M/s SAIL, will carry out mining in a phased manner after taking due care for reclamation of the mined over area and the concurrent reclamation plan shall be executed as per the Mining Plan approved by Indian Bureau of Mines, Govt of India and an annual report on implementation of the concurrent reclamation plan shall be submitted to the Nodal officer, Forest (Conservation) Act, 1980, Odisha and Eastern Regional Office, MoEF & CC, Bhubaneswar .
18. That no damage will be caused to the top-soil and the top soil management plan will be followed.

COUNTERSIGNED
Santosh
 Divisional Forest Officer,
 Keonjhar Division

General Manager (M)

Bolani Ores Mines, M/s SAIL

डॉ. देसरकार / D. DEYSARKAR

महाप्रबंधक (खान) / General Manager (Mines)

SAIL - BMD - Bolani Ores Mines

Keonjhar, Odisha

741007, Odisha
 Email : rmdbom@gmail.com, Website : www.sail.co.in

स्टील अथॉरिटी ऑफ इण्डिया, लिमिटेड रॉ मेटेरियल्स डिवीजन, बोलानी अयस्क खदान, पो० - बोलानी -
 Steel Authority of India Ltd., Raw Materials Division, Bolani Ores Mines, PO. : Bolani -
 दूरभाष / Telephone : 06767 - 260211 (O) फैक्स / Fax 06767 - 260172, Email : rmdbom@gmail.com, Website : www.sail.co.in



Date: 09.04.2018

UNDERTAKING

I, on behalf of Bolani Ores Mines, M/s SAIL, hereby undertake to comply the following conditions as stipulated in Stage-I FC Order vide F.No.8-87/1996-FC(Vol.I) Dt.12.09.2017 granted by MoEF & CC,GOI :

1. That mitigative measures for minimizing soil erosion and choking of streams shall be implemented within a period of three (3) years with effect from the issue of Stage-II Clearance in accordance with the approved scheme of Rs. 1,37,40,645.00/- (One Crore thirty seven lakhs forty thousand six hundred forty five only) at the cost of Bolani Ores Mines, M/s SAIL as per directives of DFO Keonjhar .
2. That Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion shall be implemented in accordance with the approved scheme of Rs. 48,19,932.00/- (Rupees Forty eight lakhs nineteen thousand nine hundred and thirty two Only) at the cost of Bolani Ores Mines, M/s SAIL as per directives of DFO Keonjhar .
3. That Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour shall be implemented in accordance with the approved scheme of Rs 69,32,522/- (Rupees Sixty Nine lakhs thirty two thousand five hundred twenty two only) at the cost of Bolani Ores Mines, M/s SAIL as per directives of DFO Keonjhar .
4. That Stabilization of the overburden dumps by appropriate grading/benching, so as to ensure that angles of repose at any given place is less than 28 degree shall be implemented in accordance with the approved scheme at the cost of Bolani Ores Mines, M/s SAIL as per directives of DFO Keonjhar .
5. That Fencing, protection and regeneration of the safety zone area [7.5 meters strip shall be kept within the mining lease boundary and area of the- safety zone shall be part of the total area of mining lease as per the Ministry's guidelines dated 27.05.2015] shall be implemented within a period of three (3) years with effect from the issue of Stage-II Clearance in accordance with the approved scheme of Rs. 63,89,293.00/- (Sixty three lakhs eighty nine thousand and two hundred ninety three only) at the cost of Bolani Ores Mines, M/s SAIL as per directives of DFO Keonjhar .

COUNTERSIGNED

Sarkar
**Divisional Forest Officer,
Keonjhar Division**

[Signature]
**General Manager(M)
Bolani Ores Mines, M/s SAIL**

डी. देसरकार / D. DEYSARKAR
महाप्रबंधक (खान) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्यॉंझर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

Annexure-I

Government of Odisha
Forest & Environment Department

-0-

No.10F (Cons) 255/2016 2076 8/F&E, Bhubaneswar, dated. 10-11-16

From

Sri Debidutta Biswal, IFS,
Special Secretary to Government.

To

The Assistant Inspector General of Forests,
Govt. of India, Ministry of Environment & Forest and Climate Change
(.F.C.Division), Indira Paryavaran Bhawan,
Jor Bagh, Aliganj Road
New Delhi -110003

Sub: Proposal for diversion of 124.313ha. of sabik kism forest land as on 25th October 1980(treated as non-forest land in hal record) out of total forest land of 723.312ha. (including sabik kism forest land of 238.093ha), located within the Mining Lease hold area over 1586.36 ha of Bolani Ore Mines (6.9sq.miles) of Steel Authority of India Ltd. in villages of Bolani, Balagoda, Limtur etc. and Karo Reserved Forests under Barbil Tahasil of Keonjhar District, Odisha during 2nd RML period(**FP/OR/MIN/20126/2016**)

Sir,

I am directed to say that above mentioned forest diversion proposal was recommended by the State Government to MoEF&CC, GoI vide letter No.15307/F&E dt. 19.8.2016 for consideration and approval under Section 2 of Forest Conservation Act, 1980. No communication has since been received from MoEF&CC, GoI in this context. However, it has been informed by the user agency that the during presentation of their proposal, the MoEF&CC have observed that 95% of the degraded forest land identified in Laxmiposi Reserved Forests in Champua Range of Keonjhar Forest Division for compensatory afforestation is comprised of Medium to Very Dense Forest as per GIS based Decision Support System(DSS) and therefore the MoEF&CC had suggested the user agency for identification of alternate suitable site for compensatory afforestation against the above forest diversion proposal. In view of such observation of MoEF&CC, the user agency had requested the DFO, Keonjhar for needful in the matter.

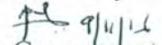
In view of such observations of the Ministry and as per request of the user agency , an extent of 248.626ha. of degraded forest land has again been identified in Chhatam RF(Hathidharsa Block) in Rajgangpur Range of Rourkela Forest Division. DFO, Rourkela Forest Division has prepared a site specific CA scheme in ANR mode of raising 200 plants per ha. at current wage rate of Rs. 200/- per manday including cost of maintenance of 10 years. The species selected to be planted under the revised scheme are Amla(*Emblica officinalis*), Neem (*Azadirachta indica*), Bahada(*Terminalia belerica*), Karanja(*Pongamia pinnata*), Jamu(*Sizium cumini*), Dhaura(*Anogeissus latifolia*), Sissoo(*Dalbergia Sissoo*), Harida(*Terminalia chebula*) etc. Addl. PCCF(Forest Diversion)& Nodal Officer, FC Act, O/O

PCCF, Odisha has accorded technical approval to the CA scheme with a revised financial outlay of Rs.2,00,40,800/-. Maps of identified degraded forest land for the purpose of CA in scale (1:12,000 and 1:6000) duly signed by the DFO, Rourkela are appended to the CA scheme. A copy of duly approved CA scheme is appended herewith. The user agency had earlier furnished an undertaking to pay cost of compensatory afforestation.

It is therefore requested that the revised CA scheme may be considered by the Ministry and in-principle approval for the diversion proposal may be conveyed to this department for further follow up action.

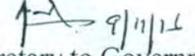
Encl: Revised CA scheme

Yours faithfully


Special Secretary to Government

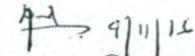
Memo No. 20769 /Dt. 10-11-16

Copy along with the copy of enclosures forwarded to the Additional Principal Chief Conservator of Forests (Central), Government of India, Ministry of Environment, Forests and Climate Change, A/3, Chandrasekharpur, Bhubaneswar for information and necessary action..


Special Secretary to Government

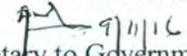
Memo No. 20770/F&E., Dated- 10-11-16

Copy forwarded to the Pr.C.C.F., Odisha /Principal Chief Conservator of Forests(WL) & CWLW, Odisha for information & necessary action.


Special Secretary to Government

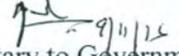
Memo No. 20771 /Dated. 10-11-16

Copy forwarded to the Regional Chief Conservator of Forests, Rourkela Circle/ Divisional Forest Officer, Keonjhar Forest Division/DFO, Rourkela Forest Division for information and necessary action.


Special Secretary to Government

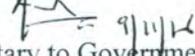
Memo No. 20772 /Dated. 10-11-16

Copy forwarded to the Steel & Mines Department/ Collector, Keonjhar for information and necessary action.


Special Secretary to Government

Memo No. 20773 /Dated. 10-11-16

Copy forwarded to the Sri Paresh Chandra Naik, General Manager(Mines), Steel Authority of India Ltd, RMD, Bolani, Dist. Keonjhar, Odisha, Pin 758037 for information and necessary action.


Special Secretary to Government

Annexure-II (B)



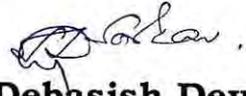
ANNEXURE - I (B)
स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
रॉ मेटेरियल्स डिवीजन
RAW MATERIALS DIVISION
बोलानी अयस्क खदान
BOLANI ORES MINES

UNDERTAKING

I, on behalf of Bolani Ores Mines, M/s SAIL- RMD, do hereby undertake that the purchase of Four Wheeler vehicle towards infrastructure as per the approved Compensatory Afforestation Scheme for diversion of 124.313 Ha. Sabik Forest is under process. It will be delivered to DFO Rourkela within 3 (Three) months.

COUNTERSIGNED


Divisional Forest Officer,
Keonjhar Division

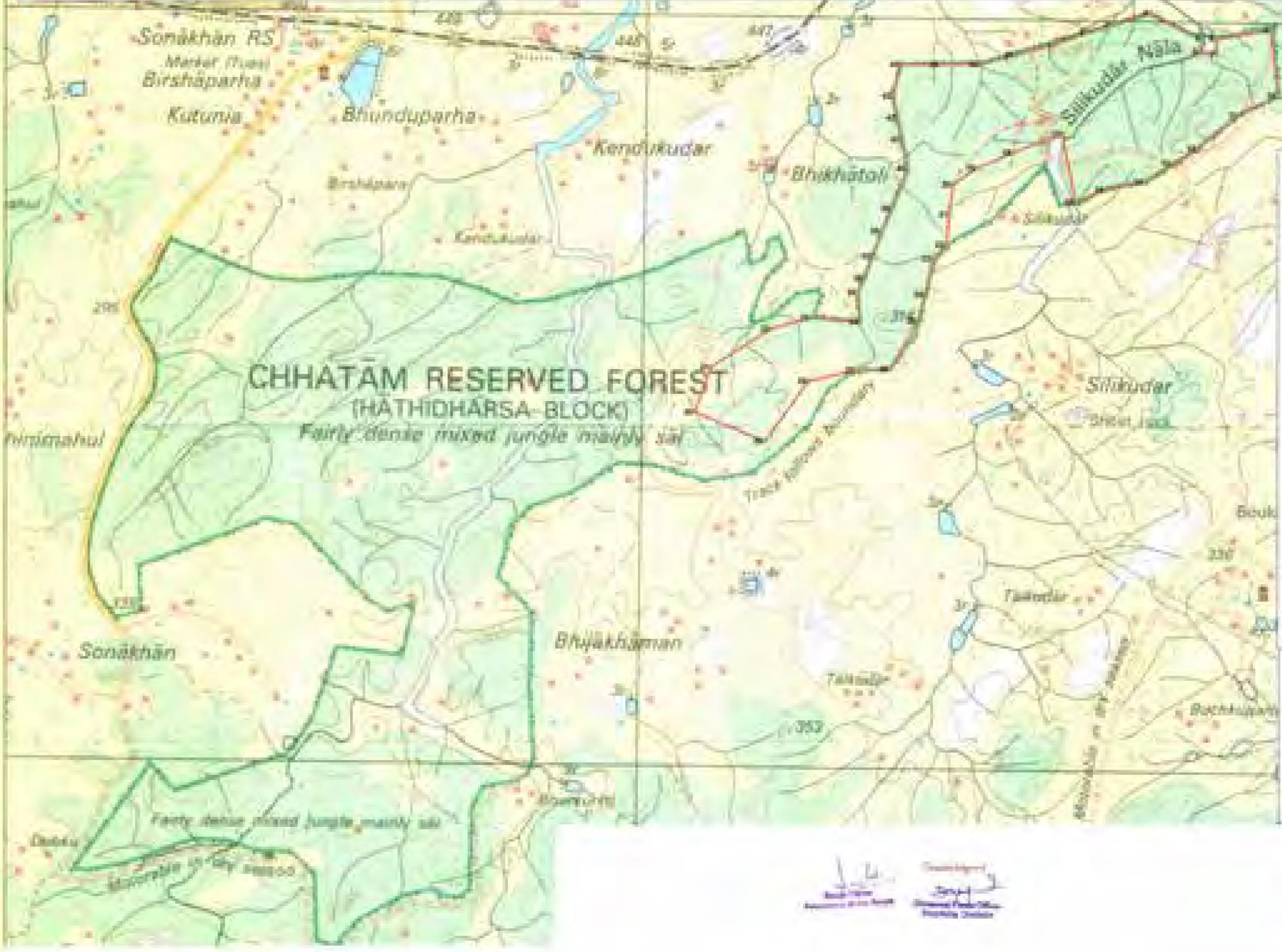

(Debasish Deysarkar)
General Manager (Mines)

डी. देसर्कार / D. DEYSARKAR
महाप्रबंधक (खान) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्यॉंझर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

स्टील अथॉरिटी ऑफ इण्डिया, लिमिटेड रॉ मेटेरियल्स डिवीजन, बोलानी अयस्क खदान, पो० - बोलानी - ७५८०३७, जिला - क्यॉंझर, उड़ीसा
Steel Authority of India Ltd., Raw Materials Division, Bolani Ores Mines, PO. : Bolani - 758037, Dist. Keonjhar, Odisha
दूरभाष / Telephone : 06767 - 260211 (O) फैक्स / Fax 06767 - 260172, Email : rmdbom@gmail.com, Website : www.sail.co.in

Annexure-III

MAP SHOWING LAND FOR COMPENSATORY AFFORESTATION OVER 248.626 HA DEGRADED FOREST LAND WITHIN CHHATAM RESERVED FOREST (HATHIDHARSA BLOCK) OF RAJGANGPUR FOREST RANGE (ROURKELA FOREST DIVISION) FOR DIVERSION OF 124.313 HA NON FOREST LAND RECORDED AS FOREST AS ON 25.10.1980 INSIDE 6.90 SQ MILES ML OF BOLANI ORES MINES, M/s SAIL. Scale : 1:12,000



Sl. No.	Area (Ha)	Location	Remarks
1	1.00	Sonakhān	...
2	1.00	Bhunduparha	...
3	1.00	Kendukudar	...
4	1.00	Bhikhatali	...
5	1.00	Sirkudar	...
6	1.00	Bhujāhāman	...
7	1.00	Takradia	...
8	1.00
9	1.00
10	1.00
11	1.00
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89	1.00
90	1.00
91	1.00
92	1.00
93	1.00
94	1.00
95	1.00
96	1.00
97	1.00
98	1.00
99	1.00
100	1.00

Legend

- Pillar ID
- ▭ Area of CA over 248.626 Ha

STEEL AUTHORITY OF INDIA LIMITED
 BOLANI ORES MINES (SAIL) M/s SAIL
 ROURKELA, ODISHA

DATE SHEETING LAND FOR S. & L. LINE SQUARE OFF

Prepared by: [Signature]
 Checked by: [Signature]
 Date: [Date]

Annexure-IV



e-PayOrder Details

e-PayOrder Number CR17999851
 Debit Status Success

Date 22-Dec- 2017

PAY ORISSA CAMPA

RUPEES (In words) One Crore Ninety Lakhs Forty Thousand Eight Hundred only **Rs1,90,40,800.00**

ACCOUNT NO 00000011180766769

STATE BANK OF INDIA

BOLANI
DEBASHISH BEHERA
Maker
RAJEEV KUMAR
Authorizer 1
RABINDRA NATH OJHA
Authorizer 2

"CR17999851"

Counterfoil Description SAIL RMD BOLANI
 Transaction Type RTGS Funds transfer

Debit Account Details

Account No.	Branch	Amount
00000011180766769	BOLANI	1,90,40,800.00

Credit Account Details

Beneficiary Name/Account No.	Bank/Branch/IFSCCode	Amount	Credit Status	UTR No.
ORISSA CAMPA/150825820126526	CORPORATION BANK/FCS BANGALORE/CORP0000633	1,90,40,800.00	Success	SBINR12017122200034911

Annexure-V (A)



State Bank of India

TO WHOMSOEVER IT MAY CONCERN

It is to certify that , a sum of Rs.173807890.00 (Rupees seventeen crore thirty eight lakhs seven thousand eight hundred ninety only) has been transferred from account no- 11180766769 of SAIL RMD BOLANI ORES MINES TO A/C NO. 344902010105428 of Union Bank of India , Sunder Nagar , New Delhi of CAMPA ODISHA NEW DELHI ON 13/07/2016 through RTGS UTR no. SBINR52016071332114863.

कृते भारतीय स्टेट बैंक
For STATE BANK OF INDIA
मुख्य प्रबंधक
बोलानी शाखा
Branch Manager
S.B.I Bolani

S.B.I Bolani
13-07-2016

Application for NEFT Remittance

Counterfoil

State Bank Of India

Branch - Bolani

Date : 13.07.2016

Received

From : SAIL-RMD-Bolani
Ores Mines

By Cheque /

Transfer for

NEFT

Bank: Union Bank Of India,
Sunadar Nagar, New delhi

Favouring : Compensatory
Afforestation Fund

A/c No. 344902010105428

Amount Rs. 173807890.00

Bank's

Charges Rs. 57.50

Total Rs. 173807947.50

(Rupees Seventeen Crore
Thirty Eight Lakh Seven
Thousand Eight Hundred
Ninety only)

UTR No. SBI NR 520160

71332114863



Annexure-VI

Scheme

OF

MITIGATIVE MEASURES TO MINIMIZE SOIL EROSION AND CHOKING OF STREAM

in compliance to

Condition no – VII(a) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for

Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED DIVERSION PROPOSAL	3
II	PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED ML AREA	4
III	OBJECTIVE & WORK SCHEDULE ,	5
IV	PROVISION OF FUNDS	7
	<u>Annexures</u>	
	Annexure-I : Estimate For Construction Of 200 Meter Masonary Drain	9
	Annexure-II : Estimate For Setlling Pond	10
	Annexure-III : Estimate For Loose Boulder Check Dams (LBCD)	11
	Annexure-IV : Estimate For Desilting Of Nallahs	12
	Annexure-V : Estimate For Construction Of RCC Check Dam	13

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha .

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No

SP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha .+ 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (vii):

"Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account .

- (a) Mitigative measures to minimize soil erosion and choking of stream shall be implemented within a period of three year with effect from the issue of Stage-II clearance in accordance with the approved Plan in consultation with the State Forest Department ..."

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO Keonjhar, preparation of the scheme of mitigating measures for minimize soil erosion and choking of streams has been undertaken in consultation with the State Forest Department, for implementation at the project cost .

CHAPTER- II

PHYSIOGRAPHY ,GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- Joda Barbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore

group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade. There is no excavation of ore at present inside the 6.90 sq miles Mining Lease. Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant, Loading plant and railway siding, Tailing pond, OB and fines dumps, Water intake facility, township along with Manganese Quarries are located in 6.9 sq. miles mining lease.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest along with non-forest land recorded as forest is placed under the sub-group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia bellerica, Syzygium cumini, Mangifera indica, Schleicheria oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres sora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium caricum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub-group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowseable and xerophytic in habit.

CHAPTER- III

OBJECTIVE & WORK SCHEDULE

FACTORS FOR SOIL EROSION AND CHOKING OF STREAMS

The mining and allied activities viz. stockpiles and iron ore fines dumps are the major factors of impacting any drainage system in the mining areas. The forms of erosion observed in this region include mainly rill and gully erosion. The storm water runoffs from the hills, mine faces and Fines dump slope areas carry substantial amounts of solids in the lower order streamlets and choke the higher order streams. These lower order streamlets and gullies have high

erosive capacity due to gradient and pick up rock fragments and transport them due to high velocity of the stream and deposit in the connecting high order streams due to velocity drop. Streams can also erode by undercutting their banks resulting in mass-wasting processes like slumps or slides. When the undercut material falls into the stream, the fragments are transported and deposited in the stream bed. The other mode of sediment transportation is very nominal.

OBJECTIVE OF THE SCHEME:

The objectives of the proposed scheme is to minimize the carrying of silts which choke the streams by flow of above storm water runoffs from the hills, mine faces and fines dump slope areas to downstream areas joining Kāro River, as follows :

- (a) Proper Management of Iron ore fines stockpiles so as to prevent wash off for siltation in the streams. Hence, to prevent generation of fines material at source, retaining walls and garland drains will be erected around the fines dumps, as per separate scheme prepared in compliance to condition stipulated in vii(c).
- (b) Prevention of flow of fines/silts from the mining/fines dump areas to the cultivable lands, natural streams and inhabitations.
- (c) Prevention of obstruction of Natural water sources by regular de-silting of seasonal and perennial streams inside the ML.

DETAILS OF PROPOSED WORK SCHEDULE

The following activities are proposed to be taken up to mitigate soil erosion and choking of streams :

1. Construction of total of 200 meters of masonry drains of approx. 2.0 width and 2m height from the periphery of fines dumps to discharge the washoff in to settling tanks
2. Construction of 5 (five) nos of settling tanks for settling of fines and discharge of storm waters to stream/streamlets
3. Construction of Loose Boulder Check Dams across seasonal streamlets to reduce the flow velocity of run off and to settle the silts / sediments flown from the mining areas including overburden dumps, stockpiles, unmetalled murrom roads and areas cleared of vegetation. 70 nos of such dry boulder check-dams will be constructed across streamlets arising from upslopes of adjoining areas
4. Construction of 4 nos of RCC checkdykes across the perennial streams and outlets from tailing pond
5. Annual de-silting / silt removal will be undertaken in the streamlets up to 100m stretch, as per appropriate site conditions.

GPS readings of above proposed activities are shown on the entire land use map of the lease.

Annexure-I

ESTIMATE FOR CONSTRUCTION OF 200 METER MASONARY DRAIN

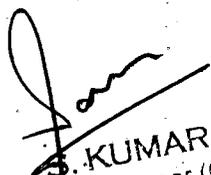
Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate (Rs)	Amount(Rs)
1	Earth work excavation in foundation								
	Drain Foundation	cum	1	200.00	2.00	3.00	1200.00	130.80	156960.00
						TOTAL	1200.00		
2	Providing and laying P.C.C (1:4:8)								
	Drain Foundation	cum	1	200.00	3.00	0.10	60.00	3500.00	210000.00
3	RRM MASONARY GRANITE STONE								
	Wall	cum	2	200.00	0.50	2.00	400.00	3100.00	1240000.00
4	20 mm thick Cement Punning								
	Wall	Sqm	4	200.00		2.00	1600.00		
	Wall Top	Sqm	2	200.00		0.50	200.00		
						Total	1800.00	140.00	252000.00
5	40 mm Thick Flooring								
	Drain	sqm	1	200.00	2.00		400.00	200.00	80000.00
6	PCC 1:2:4								
	Wall Top	cum	2	200.00	0.50	0.05	10.00	4500.00	45000.00
TOTAL COST									19,83,960.00
Per meter cost									9,919.80


S. KUMAR
Deputy Manager (Civil)
SAIL-RMD-BOM

Annexure-II

ESTIMATE FOR SETTLING POND

Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate (Rs)	Amount(Rs)
1	Earth work excavation in foundation								
	Drain Foundation	cum	5	23.00	13.00	3.00	4485.00	130.80	586638.00
2	Providing and laying P.C.C (1:4:8)								
	Drain Foundation	cum	5	21.00	11.00	0.10	115.50	3500.00	404250.00
3	RRM MASONARY GRANITE STONE								
	Wall	cum	5	64.00	0.40	3.00	384.00		
		cum	10	10.00	0.25	3.00	75.00		
4	20 mm thick Cement Punning								
	Wall	Sqm	10	64.00		3.00	1920.00		
		Sqm	5	64.00		0.40	128.00		
		Sqm	20	10.00		3.00	600.00		
						Total	2648.00	140.00	370720.00
5	Neat Cement Punning								
	Drain Qty Same as Sl.No.4)	sqm					2648.00	32.00	84736.00
								Total	2869244.00
								CostPer Tank	5,73,848.80


S. KUMAR
 Deputy Manager (Civil)
 SAIL-RMD-BOM

Annexure-III

ESTIMATE FOR LOOSE BOULDER CHECK DAMS (LBCD)

Sl	Item	Quantity in cum	Rate Cost / per cum) in Rs	Cost per LBCD (Rs)
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10 ' x 5 ') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms.	9.9	156.40	1548.36
3	Total required Labour	9.9	350.25	3467.47
	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83 = Rs 6986.00
	Total Cost of erecting 70nos of LBCD estimated for the site			Rs 6986.00 x 70 = Rs 489020.00

(As per Revised cost norm No. 1044/10F (GAMPA) 54/2017 dated 13 th. October, 2017 of Principal CCF &HoFF, Govt of Odisha)


S. KUMAR
Deputy Manager (Civil)

Annexure-IV

ESTIMATE FOR DESILTING OF NALLAHS									
Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate(Rs)	Amount (Rs)
1	Earth work excavation in foundation								
		cum	1	100.00	10.00	1.50	1500.00	130.80	196200.00
2	Transportation								
	Desilted material	per trip					375.00	1500.00	562500.00
Total									758700.00
Cost of De-silting for 3 years									22,76,100.00


S. KUMAR
Deputy Manager (Civil)
S.No. R. 10-500

Annexure-V

ESTIMATE FOR CONSTRUCTION OF RCC CHECK DAM (25m x 1.2m x 5.3 m)

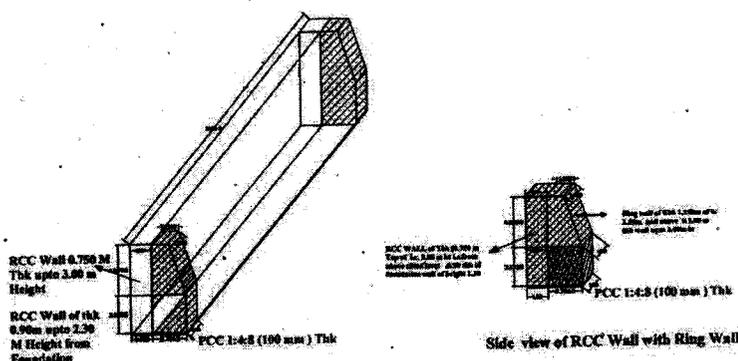
SL.	DESCRIPTION OF ITEM	UNIT	QTY.	RATE	AMOUNT	DSRNo
1	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	cum	111.00	129.35	14357.85	2.6.1
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	12.50	3593.30	44916.25	4.1.8
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	64.00	4703.90	301049.60	5.1.3
4	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement: 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	60.00	5344.80	320688.00	5.2.3
5	Centering and shuttering including strutting, propping etc. and removal of form for :					
	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	143.00	166.90	23866.70	5.9.1
	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	186.00	285.15	53037.90	5.9.2
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.	Kg	16125.00	56.75	915093.75	5.22.1
7	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	Sqm	300.00	336.50	100950.00	16.11
8	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)	Sqm	175.00	130.20	22785.00	13.2.2
9	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	Sqm	120.00	280.05	33606.00	11.3.1
10	Random rubble masonry with local laterite boulder in foundation and plinth including levelling up with cement concrete 1:6:12 (1 Cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with : Cement mortar 1:6 (1 Cement : 6 coarse sand)	cum	42.00	1982.30	83256.60	LS
11	Dismantling/cutting the existing Chain link Fencing of about 4.0m to 5.0 m along with barbed wire fencing for making of Passage for material transportation etc to the construction site as per direction of EIC	L.S.	1.00	1000.00	1000.00	LS
12	Refixing the the dismantled fencing of about 4.0m to 5.0 m by Weilding the fencing, repairing and making good as per direction of EIC	L.S.	1.00	1500.00	1500.00	LS
TOTAL					19,16,107.65 (say- Rs 19,16,107	

**Cost for two (2) such RCC check dam = Rs 19,16,107.65 x 2 = Rs 38,32,214.00
(Rupees Thirty Eight lakhs Thity two thousand and two hundred fourteen only)**

Drawing :

(Above foundation = 3.0 m, Foundation = 2.3m, Drawing enclosed)

S. KUMAR
Deputy Manager (Civil)
SAIL-Road-SDM



Annexure-VII

Scheme

OF

PLANTING OF ADEQUATE DROUGHT HARDY PLANT SPECIES AND SOWING OF SEEDS

in compliance to

**Condition no – VII(b) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi**

for

Diversion of 124.313 Hects of Sabik Kisam Forest land

**within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District**



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	
II	PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED ML AREA	
III	OBJECTIVE& WORK SCHEDULE ,	
IV	DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION	
V	COST STRUCTURE OF PLANTATION& SMC WORKS, PROVISION OF FUNDSAND UTILIZATION	
VI	PROVISION OF FUNDS	
VII		
VIII		
IX		

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GOI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha .

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No

FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabik kisam forest land out of total 723.312 ha forest land (485.219 ha .+ 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following in Condition no- (vii) :

“Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account

(b) plantation of drought hardy plant species and sowing of seeds within mining lease to arrest soil erosion” .

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO Keonjhar, preparation of the scheme of plantation of drought hardy plant species and sowing of seeds within mining lease to arrest soil erosion with a maintenance period of ten years has been undertaken in consultation with the State Forest Department,for implementation at the project cost

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED ML AREA

PHYSIOGRAPHY AND GEOLOGICAL FORMATION

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 2205'12"N to 2207'42"N and longitude 850 19'04" E to 850 23'08"E of Survey of India Topo sheet No. 73 F/8, consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e.haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid& Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual

deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest along with non-forest land recorded as forest is placed under the sub-group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes *Terminalia alata*, *Lagerstroemia perviflora*, *Anogeissus latifolia*, *Terminalia bellerica*, *Syzygium cumini*, *Mangifera indica*, *Schleichera oleosa*, *Adina cordifolia*, *Pterocarpus marsupium*, *Bombax ceiba*, *Bridelia retusa*, *Madhuca indica*. The middle story is represented by *Syzygium cumini*, *Ougeinia ougenensis*, *Careya arborea*, *Trema orientalis*, *Emblica officinalis*, *Cassia fistula* etc. The shrubs and undergrowth are characterized by *Indigofera pulchella*, *Ardisia solanacea*, *Flemingia chappar*, *Helicteres ixora* and *Clerodendron viscosum* etc. The prevailing climbers include *Bauhinia vahlii*, *Combretum decandrum* and *Beutia parviflora*. The grasses over the forest floor include *Chrysopogon aciculatus*, *Imperata cylindrica*, *Dicanthium carricosum*, *Cynodon dactylon* etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub-group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowseable and xerophytic in habit. The prevailing forest growth in the Non-Forest land recorded as forest as on 25.10.1980 over 238.093 ha falls under this category.

CHAPTER- III

OBJECTIVE & WORK SCHEDULE

OBJECTIVE OF THE SCHEME

The objective of the scheme is to undertake plantation of Draught Hardy species and sowing of seeds on the identified patches of degraded forest land over 43.0 hectares @ 600 saplings per hectare and 50.0 hectares respectively inside the lease to arrest soil erosion

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

The proposed areas has been demarcated through GPS survey and GPS survey data showing latitude and longitude of each point and their field notes is also enclosed in the map.

AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

The user agency ,i.e Bolani Ore Mines of M/s SAIL shall provide funds for implementation of the scheme. The cost of the scheme will include fund to be deposited in the Ad-hoc CAMPA Account , on technical approval of the scheme and receipt of demand note from DFO Keonjhar .

AGENCY RESPONSIBLE FOR EXECUTION OF THE SCHEME

The Forest & Environment Department i.e. Divisional Forest Officer, Keonjhar Division, and the Forest Range Officer, Barbil Range office will execute the scheme on allotment of fund by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar .

DETAILS OF PROPOSED MONITORING MECHANISM

The plantation work will be taken up in the identified site by the Range Officer, Barbil Range of Keonjhar Division, Keonjhar . He will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests, (Affn.) and Divisional Forest Officer, Keonjhar Division . Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Barbil Range and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Rourkela Circle and Chief Conservator of Forests (PP&A), O/o the Pr. Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.

CHAPTER- IV

DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be undertaken as per the plan .The SMC works will be undertaken over the different patches shown in the map and planting plan. This plan will be followed when actual planting is carried out.

Native Species to be planted:

1. *Dalbergiasissoo*(Sissoo)
2. *Azadirachta indica*(Neem)
3. *Gmelina arborea* (Gambhari)
4. *Terminalia bellerica*(Bahada)
5. *Terminalia chebula*(Harida)

6. *Pongamiapinnata* (Karanja)
7. *Emblicaofficinalis* (Ainala)
8. *Madhucaindica*(Mahul)
9. *Mangiferaindica* (Amba)
10. *Artocarpusheterophylla* (Panash)

11. In the peripheral areas of the site (susceptible to grazing) may be planted with non-browsable species like *Tectonagrandis* (teak), *Acasia*, *Alstoniascholaris* Chhatian), *Simarubaglauca*, *Anonnasquamosa* (Sitaphal), etc. . Planting operation is to be done as per Odisha Forest Plantation Manual-1977 & the guideline & norms of forest & Environment Department.

12. The non native species to be included are *Acacia mangium*, *Simaroubaglauca* on some selected sites only

13. Native grass plants are useful for erosion control and have the added benefit of fitting readily into the landscape. They will easily transplant and take in conditions that mimic their natural habitat. Native grasses also need less maintenance as they are adapted to the region in which they occur and receive most of their needs in the existing site.

B. PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @660 seedlings per ha including seedlings for 10% causality replacement.

B(II)-SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING

The planting area will be surveyed and demarcated with GPS coordinates of respective pillar no as per the GPS map along with the field notes before undertaking plantation .

B(III) SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS.

The clearing of the site involving removal of invasive weeds, bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 30 x 30 x 30 cm. will be dug @600 per ha. in the available gaps preferably 2 months before or at least a month before planting of seedlings.

B(IV) SOWING OF SEEDS

Stylosanthes species have been utilized for land reclamation, soil stabilization and soil regeneration work because of their drought resistance, ability to restore soil fertility, improve soil physical properties and provide permanent vegetation cover. *Stylosanthes hamate* is a genus of flowering plants in the legume family, Fabaceae and contains numerous highly important pasture and forage species. . Seeds are hard and long lived leading to high soil seed banks and

rapid recovery following fire or heavy grazing. Seed survives passage through the gut of grazing animals and is dispersed widely in this manner allowing for rapid dispersal. Many species are adapted to hot, dry climates and are drought resistant. They are capable of nitrogen fixation and are capable of improving soil fertility in addition to providing high protein stock feed. The genus is also noted for its ability to extract phosphorus from soils where it is not available to other species. Sowing of seeds of *Stylosanthes* sp. will be undertaken in open area (shown in map) and nallabundigand wherever required to the extent over 100 hectares degraded forest land within applied ML area. Seeds (will be sown in early spring when the area is moderately damp until germination or in the early monsoon over the degraded barren slopes.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION

D(1)-CASUALTY REPLACEMENT

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over.

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the stumps is complete or after the seedlings have started throwing up new buds.

D(3)-MANURING AND INSECTICIDE APPLICATION

On degraded sites urban compost or farmyard manure, wherever available, will be added to the soil while refilling the pits. As regards artificial fertilizers, the minerals required and dosage @ 50 grams of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-PROTECTION AGAINST FIRE AND GRAZING

Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved cost norm for protecting the plantation from grazing with involvement of VSS of nearby villages.

D(5)-SOIL MOISTURE CONSERVATION MEASURES

Soil and moisture conservation activities are to be taken up and dovetailed to plantation/afforestation activities in order to retain the soil and conserve maximum precipitation on forest floor to improve water availability in Forests. It is to be practised as a core forestry activity independent of other forestry interventions. In order to achieve the objective and implement the programme efficiently, a wellplanned strategy is indispensable.

The objective of the Soil and Moisture Conservation works proposed here is :

- I. To counteract soil erosion by reducing water flow velocity
- II. To achieve soil moisture/water balance and to increase groundwater recharge to prevent drying out due to water shortage in drought period .
- III. To provide sufficient storage by erecting runoff Bunds along field boundaries without reference to contour, as the area is a low rainfall area .

The strategy adopted for Soil and Moisture conservation measures in the scheme is enumerated below :

- (i) Loose Boulder Check dams (LBCD)
- (ii) Staggered Trenches and percolation pits

The detailed cost estimate of SMC proposals enumerated here is as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF & HoFF, Govt of Odisha (Copy Enclosed in annexure) .

- i. **Loose Boulder Check dams (LBCD)** :This structure is to be created across the drainage line for retention of runoff and reduction of velocity. Such structures should preferably have top width of one meter with upstream slope of 1:1 and downstream slope of 1:5 . The dimensions of each structure are dependent on several factors such as gradient, catchment size etc. . Since, the cost norm for such structures are based on volume, implementing divisions will have desired flexibility to design such structures with appropriate dimensions. On either side of the LBCD, trenches of prescribed dimension should be created to allow the vertically running water to spread on either side at the obstruction point which will reduce the velocity effectively. The length of such trenches should be at least twice the length of LBCD on either side. They may be straight line or a curve with the curve towards uphill side. Such structures will also capture more rainwater and enhance infiltration.As per the condition of identified site, Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' as drainage line treatment to the tune of 40 nos. over the entire plantation site identified under this scheme. The drawings and specifications are attached in Annexure -

- (ii) **Staggered Contour Trenches (SCT)**:

The prime objective of any soil and moisture conservation work is to retain runoff water flowing down the slope. Enhancement of infiltration is the ultimate

objective of any SMC scheme which facilitates recharging of ground aquifer. Restriction of sub-surface flow makes water available to the vegetation within root zone. Treatment of forest floor and drainage line with suitable interventions helps in retention of rain water and depending on the nature of soil profiles allows variable quantities of water to infiltrate. The staggered trenches are primarily aimed to break the runoff and not to let the fertile soil particles lost by water.

As the general slope of the identified area is within 30 degree, 300 no of staggered trenches will be created per hectare of land. Staggered trenches of dimension 2.5 x 0.5 x 0.5 mtr will be dug along the contour lines parallelly to retain the flowing water. It will help in conserving rain waters of that region and facilitate its percolation. Adequate care should be taken during alignment of such trenches, so that gullies are not formed by the water flowing downhill from the edges of the trench. The analysis of cost analysis are attached in Annexure - I

CHAPTER- V

COST STRUCTURE OF PLANTATION & SMC WORKS

A. COST STRUCTURE OF PLANTATION : ESTIMATE OF COST FOR 1.00 HA. UNDER ANR PLANTATION MODEL COST NORM FOR ANR PLANTATION @ 600 PLANTS PER HECTARE, WAGE RATE Rs. 213.50 /- PER DAY

Sl. No.	Item of work	Preferable period of execution	Person days	Labour (Rs.)	Material (Rs.)	Total
0th year (Advance work) Pre-planting operation						
1	Survey, Demarcation & pillar posting, GPS Reading with mapping	Nov-Dec	2	427	0	427
2	Site preparation.	Nov-Dec	2	427	0	427
3	Silvicultural Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots etc	Jan-Feb	5	1067.5	0	1067.5
4	Nursery cost (6 months old seedling) part @Rs.9.45/- seedling (Rs.6.67 in 0 th year + Rs.2.78 in 1 st year) for 660 seedlings (600+60)	Jan-March	16.5	3522.75	1102	4624.75
5	Contingency and Unforeseen Expenditures		0	0	198	198
	Sub-Total		25.5	5444.25	1300	6744.25
1ST YEAR OPERATION						
1	Nursery cost (6 months old seedling) balance @Rs.2.78 for 660 seedling	Apr-Jul	8	1708	235	1943
2	Pitting 30 cm cube size	Feb/Mar	18	3843	0	3843
3	Carriage and planting including casualty replacement	Jul/Aug	15	3202.5	0	3202.5
4	Complete weeding, Soil working, Manuring	Aug/Sep	18	3843	0	3843
5	Cost of Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 and Granular Insecticide 5 gms/ plant @Rs.80/- per Kg= Rs.240.00	Aug/Sep	0	0	2640	2640
6	Cost of Chemical fertilizer (a) Urea 70 gms/ plant in two subsequent doses @Rs.6/- per Kg= Rs.252.00 (b)NPK 50 gms/ plant @Rs.24/- per kg= Rs.720.00 as basal dose.		0	0	972	972
7	Silvicultural Operation involving clearance of weeds, cutting of climbers, singling of shoots etc.	Sep/ Oct	15	3202.5	0	3202.5
8	Soil Conservation Measures (Staggered trenches of dimension 2m X 0.5m X 0.5m @60 nos per ha) or its equivalent	Sep/ Oct	20	4270	0	4270
9	Fireline Tracing and Inspection path	Feb/ Mar	3	640.5	0	640.5
10	Watch & ward	Aug-Mar	7	1494.5	0	1494.5
11	Contingency and Unforeseen Expenditures		0	0	353	353
	Sub-Total		104	22204	4200	26404

2 ND YEAR OPERATION						
1	Casualty Replacement including cost of seedling, carriage and planting	Jul/ Aug	3	640.5	567	1207.5
2	Complete weeding and cultural operations	Sep/ Oct	6	1281	0	1281
3	Soil working and manuring	Sep/ Oct	6	1281	0	1281
4	Cost of Fertilizer and insecticide (a) Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 (b) Granular Insecticides 5 gms/ plant for 60 plants 300 gms @Rs.80/- per Kg= Rs.24.00	Sep/ Oct	0	0	2424	2424
5	Soil Conservation Measures (Renovation of staggered trenches etc.)	Sep/ Oct	8	1708	0	1708
6	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
7	Watch & ward (whole year)	Apr/ Mar	7	1494.5	0	1494.5
8	Contingency and Unforeseen Expenditures		0	0	193	193
	Sub-Total		31	6618.5	3184	9802.5
3 RD YEAR OPERATION						
1	Complete weeding and cultural operations	Aug/ Sep	3	640.5	0	640.5
2	Soil working	Aug/ Sep	3	640.5	0	640.5
3	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
4	Watch & ward (whole year)	Apr-Mar	7	1494.5	0	1494.5
	Sub-Total		14	2989	0	2989
4 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
5 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
6 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
7 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
8 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
9 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5

2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
10TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
	Grand Total		195.5	41739.25	8684	50423.25

ABSTRACT

Year	Person days	Labour	Material (Rs)	Total (Rs)
0th Year	25.5	5444.25	1300	6744.25
1st Year	104	22204	4200	26404
2nd Year	31	6618.5	3184	9802.5
3rd Year	14	2989	0	2989
4th Year	3	640.5	0	640.5
5th Year	3	640.5	0	640.5
6th Year	3	640.5	0	640.5
7th Year	3	640.5	0	640.5
8th Year	3	640.5	0	640.5
9th Year	3	640.5	0	640.5
10th Year	3	640.5	0	640.5
Total	195.5	41739.25	8684	50423.25
Total Cost Norm per ha.				50423.25
Total Cost of plantation for 43.0 ha				21,68,199.75

ADDITIONAL COST PROPOSED

1	SMC measures- LBCD structure of dimension 10' x 10' x 5' @Rs. 6985.83/-(cost of Transportation within a lead of 5.0 km i.e. Rs. 1548.36+ cost of construction Rs.5437.47) per LBCD structure for 40 nos LBCD structures.	2,79,433.20
2	Staggered trenches(2.5mt x 0.5mt x 0.5 mt) @60MD per ha over 43ha@ Rs. 12810 per ha.	5,50,830.00
3	Cost of sowing seeds over 50.0 ha degraded forest land and other areas	5,20,250.00
4	Additional incentive (3% of cumulative expenditure) for VSS/Fr./FG proposed for more than 80% survival and very good growth during 4 th year of maintenance as per recommendation of DFO and RCCF. @Rs. 1379/- per ha for 43 ha.	59,297.00
5	Additional EPA expenses if implemented through VSS at rate Rs.1200/- in 0 th Year, Rs.2400/- in 1 st Year, Rs.1800/- in 2 nd Year, Rs.600/- in 3 rd Year, Rs.600/- in 4 th Year, Rs.600/- in 5 th Year, Rs.600/- in 6 th year, Rs.600/- in 7 th year, Rs.600/- in 8 th year, Rs.600/- in 9 th year, Rs.600/- in 10 th year @ Rs. 10200/- per ha for 43 ha	4,38,600.00
	Total	18,48,410.20

CHAPTER-VI

PROVISION OF FUNDS

TOTAL COST OF SCHEME OF PLANTING OF ADEQUATE DROUGHT HARDY PLANT SPECIES AND SOWING OF SEEDS

	Cost breakups	Value in Rs
1.	Plantation over 43.0ha @ Rs.50,423.25/- per ha.	21,68,199.75
2	Total additional cost	18,48,410.20
	Total	40,16,609.95
3	Add 20% escalation	8,03,321.99
	Total	48,19,931.94
		48,19,932.00/- (say)
	(Rupees Fortyeight lakhs nineteen thousand nine hundred and thirty two only)	

The total cost of the implementation of above scheme will be Rs.48,19,932.00/- (Rupees Forty eight lakhs nineteen thousand nine hundred and thirty two Only) as detailed above which will be borne by user agency at their Project Cost .The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - 758 037, क्योजर, ओडिशा
Bolan Office Mines, SAIL
बोलानी-758 037, क्योजर, ओडिशा
Bolani-758 037, Keonjhar, Odisha

Date :


Divisional Forest Officer
Keonjhar Forest Division,

Office Seal
Divisional Forest Officer
Keonjhar Division

ANNEXURE- I
COST ESTIMATE OF SOWING SEEDS ANDSMC PROPOSALS

Estimate of Loose Boulder Structure (LBCD), of size 10' x 10' x 5' (as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF &HoFF, Govt of Odisha .

(I) **Loose Boulder Check dams (LBCD)**

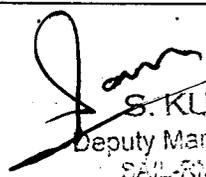
Sl	Item	Quantity in cum	Rate Cost / per cum) in Rs	Cost per LBCD (Rs)
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms.	9.9	156.40	1548.36
3	Total required Labour .	9.9	350.25	3467.47
	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83
	Total Cost of erecting 40nos of LBCD estimated for the site			2,79,433.20

(II) **Staggered Contour Trench (SCT)**

Sl	Item	Mandays .	Rate per manday in Rs	Cost of ST perha (Rs)
1	Staggered contour trench of size 2.5m x 0.5m x 0.5m) at the rate of 300 ST / ha (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum	60	213.50	12810.00
	Total Cost of SCT for 100ha estimated for the site			12810.00 x 100 = 12,81,000.00

(III) **Cost of sowing of seeds**

Sl	Item	Mandays /quantity required per ha	Rate per manday/Rate per kg in Rs	Cost of ST perha (Rs)
1	Collection of seeds of local grasses	20	213.50	4270.00
2	Purchase of stylosyntheseshamata	25	200/- /kg	4000.00
3	MandayCost of broadcasting and maintenance	10	213.50	2135.00
4	Total cost of sowing of seeds per hectare			10405.00
5	Total Cost ofsowing of seeds over 50.0 hectare			10405 x 50 = 5,20,250.00


S. KUMAR
Deputy Manager (Civil)
SAIL-RMD-BOM.

Annexure-VIII

Scheme
OF
CONSTRUCTION OF CHECK DAMS, RETENTION WALL/TOE WALLS
TO ARREST SLIDING DOWN OF THE EXCAVATED MATERIALS
ALONG THE CONTOUR

in compliance to

Condition no – VII(c) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for

Diversion of 124.313 Hects of Sabik Kism Forest land
within 6.90 sq Miles ML of
Bolani Mn &Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	
II	PHYSIOGRAPHY, GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA	
III	OBJECTIVE & WORK SCHEDULE	
IV	PROVISION OF FUNDS FOR IMPLEMENTATION OF THE SCHEME	
	Annexure - I : Estimates	

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha .

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal

for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha + 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC, GOI has stipulated the following condition in Condition novii :

“Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account .

- (c) ..“Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved scheme ”

In compliance to the above condition and memo no 6499/Mining Dt.20.10.2017 of DFO Keonjhar, preparation of a scheme for Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour has been undertaken in consultation with the State Forest Department, for implementation at the project cost.

CHAPTER- II

PHYSIOGRAPHY ,GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic 'JodaBarbil' plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease. Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant, Loading plant and railway siding, Tailing pond, OB and fines dumps, Water intake facility, township along with Manganese Quarries are located in 6.9 sq. miles mining lease.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest along with non-forest land recorded as forest is placed under the sub-group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal is mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal include Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia bellerica, Syzygium cumini, Mangifera indica, Schleichera oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres sora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium caricum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub-group 5B/C2 Northern Dry Mixed Deciduous Forest is characterized by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowseable and xerophytic in habit.

CHAPTER- III

OBJECTIVE & WORK SCHEDULE

As there is no excavation of ore at present inside the 6.90 sq miles Mining Lease, there is no active heap of excavated material. Nonetheless, loading plant stockpiles, old OB and fines dumps exist inside 6.9 sq. miles mining lease. There is one old OB dump inside this ML area and the same has been stabilized by plantation, terracing, grassing and retaining wall of 600 meters has been constructed around this OB dump.

In this scheme, considering the topography and contours of the lease area, emphasis has been given to arrest sliding down of stockpiled materials along the contour by constructing retention walls / toe walls around the stockpiles and checkdams at specified locations in the mining lease. Locations are judiciously selected within the leasehold and plans are prepared to arrest washoff material along the contour and minimize the impact on surface water body.

OBJECTIVE OF THE SCHEME:

The objective of the scheme is to prevent the washoff/sliding down of the fines material from the fines dumps/stackyards in the ML area .

DETAILS OF PROPOSED WORK SCHEDULE

The following activities are proposed to be taken up to prevent sliding of material along contours of stackyards :

1. To construct 300m retaining toe walls (300m x 1.5m x 1.5m) around the fines stack yard in Fines Loading point for prevention of sliding down of material
2. To construct 3 nos masonry boulder check dams of size 10m x 2m x 1.5m across the streamlets arising from fines stockpile areas

GPS readings of above proposed activities are shown on the entire land use map of the lease.

CHAPTER- IV

PROVISION OF FUNDS

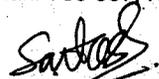
TOTAL COST OF SCHEME FOR CONSTRUCTION OF CHECK DAMS, RETENTION WALL/TOE WALLS TO ARREST SLIDING DOWN OF THE EXCAVATED MATERIALS ALONG THE CONTOUR

SI	Item of Work	Cost (Rs)
1	Construction of 300m retaining toe walls (300m x 1.5m x 1.5m) (Estimate at Annexure-I) .	19,95,872.00
2	Construction of 3 (three) nos of Masonary Check dams (45m x 2m x 2m) (Estimate at Annexure-I)	37,81,230.00
	Total	57,77,102.00
	Escalation 20%	11,55,420.40
	Grand Total	69,32,522.40 = Rs 69,32,522/- (say)
	Rupees Sixty Nine lakhs thirty two thousand five hundred twenty two only	

The total cost of the implementation of above scheme will be Rs 69,32,522/- (Rupees Sixty Nine lakhs thirty two thousand five hundred twenty two only), as detailed above which will be borne by user agency at their Project Cost .The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency

Date :

महाप्रबंधक (खनन) / General Manager (Mines)
सेल . आर एम डी . बोलाणी - अयक्स खदान
SAIL-RMD-Bolani Ores Mines
Bolan Ores Mines
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,
Office Seal
Divisional Forest Officer
Keonjhar Division

Date :

ANNEXURE -I

A. ESTIMATE FOR CONSTRUCTION OF 3 nos. (45m x 2m x 2m) LOOSE BOULDER CHECK DAMS

Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate(Rs)	Amount (Rs)
1	Earth work excavation in foundation								
		cum	3	45.00	1.00	0.30	40.50	130.80	5297.4
2	Dry Boulder								
	Drain Foundation	cum	3	45.00	2.50	0.30	101.25		
		cum	3	45.00	2.00	2.00	540.00		
							641.25	3100.00	1987875
3	Area Dressing								
		Sqm	270	1.00		1.00	270.00	10.00	2700
								Total	19,95,872.00
								Cost Per Check dam(Rs)	6,65,290.80

B. ESTIMATE FOR CONSTRUCTION OF 300 METER RETAINING WALL AT BOLANI ORES MINES

Sl.no	Description of work	Unit	No	Length	Breadth	Height	Total	Rate (Rs)	Amount(Rs)
1	Earth work excavation in foundation								
	R/Wall	cum	1	300.00	1.00	1.50	450.00		
	Drain Foundation	cum	1	300.00	0.50	1.00	150.00		
							600.00	130.80	78480.00
2	Providing and laying P.C.C (1:4:8)								
	R/Wall	cum	1	300.00	1.00	0.10	30.00		
	Drain Foundation	cum	1	300.00	1.00	0.10	30.00		
							60.00	3500.00	210000.00
3	RRM MASONARY GRANITE STONE								
	R/Wall	cum	1	300.00	1.50	1.00	450.00		
	Drain Foundation	cum	1	300.00	1.50	1.25	562.50		
							1012.50	3100.00	3138750.00
4	Plastering								
	R/Wall	Sqm	2	300.00		1.50	900.00		
		Sqm	1	300.00		1.00	300.00		
	Drain	Sqm	1	300.00		0.50	150.00		
							1350.00	140.00	189000.00
5	40 mm Thick Flooring								
	Drain	sqm	1	300.00	0.50		150.00	200.00	30000.00
6	PCC 1:2:4								
	Wall Top	cum	2	300.00	1.00	0.05	30.00	4500.00	135000.00
									37,81,230.00

Annexure-IX

Scheme
OF
STABILIZATION OF OB DUMPS BY GRADING & BENCHING

in compliance to

Condition no – VII(d) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for
Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	
II	PHYSIOGRAPHY, GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA	
III	OBJECTIVE, WORK SCHEDULE & AGENCIES INVOLVED FOR IMPLEMENTATION OF THE SCHEME	
IV	PROVISION OF FUNDS	

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, Tahasilof Keonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha .

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the

Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha + 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (vii) :

"Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account .

- (d) Stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 28 degree; and ..."

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO, Keonjhar, preparation of the scheme of Stabilize the overburden dumps by appropriate grading/benching has been undertaken in consultation with the State Forest Department , for implementation at the project cost .

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8', consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining-lease viz. 600 TPH

Crushing and Screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease .

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia bellerica, Syzygium cumini, Mangifera indica, Schleicheria oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres isora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium aegyptium, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowseable and xerophytic in habit.

CHAPTER- III

OBJECTIVE & WORK SCHEDULE & AGENCIES INVOLVED FOR IMPLEMENTATION OF THE SCHEME

A terrace is an embankment or ridge of earth constructed across a slope to control runoff and minimize soil erosion . Bench terraces are effective soil conservation measures used on dump slopes for stabilisation. Failures of waste dumps are usually associated with gully erosion and re-establishment of surface water drainage courses also . Additionally, linear or convex slopes will become concave, steep slopes will flatten and straight flat drainage courses will meander due to sedimentation. The sedimentation from erodible materials on slopes could result in blockages of surface water drains, leading to bench overtopping and erosion gullies down embankments. Slumping and differential settlement could also influence surface water flow, leading to increased gully formation and material losses .

As there is no excavation of ore at present inside the 6.90 sq miles Mining Lease , there is not any active OB dump . There is one old OB dump inside this ML area and the same has been stabilized by plantation, terracing, grassing and retaining wall of 600 meters has been constructed around this OB dump . Nonetheless, Old fines stockpiles near loading plant and valley plant exist inside 6.9 sq. miles mining lease. Partial stabilization of old Fines stack/dump have been undertaken by

terracing and laying of coir mats and plantation of vetiver grasses. On resumption of mining, the OB dumps will be terraced and stabilized by the user agency as per the approved mining plan. Remaining portion of the fines stackyard/dumps will also be stabilised by grading, benching/terracing.

OBJECTIVE OF THE PLAN

The main objective of grading, benching/terracing i.e building terraces over dump slopes is to build the dumps with proper scientific design while doing mining activity to prevent slope failure leading to damage of vegetation in surrounding areas. The objectives of the proposed plan is to implement mining methodology for terracing of OB / Fines dump for stable dump slopes in accordance with approved mining plan so as to ensure that the overall slope is less than 28° .

DETAILS OF PROPOSED WORK SCHEDULE

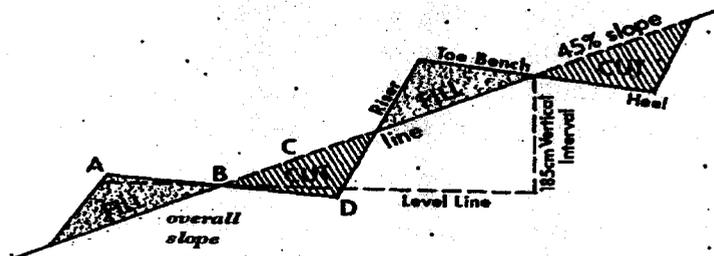
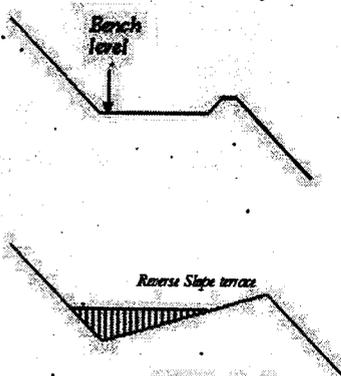
The following activities are proposed to be taken up to mitigate soil erosion and choking of streams :

1. Terracing of western side of Old fines dump to overall slope $< 28^{\circ}$,
2. Terracing of Eastern side of Old tailings dump to overall slope $< 28^{\circ}$

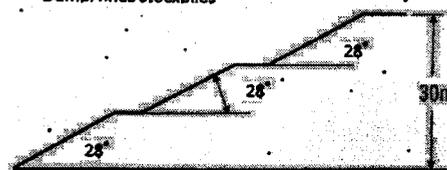
METHODOLOGY

Terracing is the practice of making embankments along with flattened portions of slope. It is the mechanical practice used on slopping dump surface to reduce the length and /or the degree of slope with the objectives of Soil conservation, checking slope soil erosion, decreasing runoff from slope etc. Following terrace types will be made : Ridge Type to remove or retain water on sloping land, Level type terrace or contour Bunding and Bench Terrace and Reverse slope terrace to reduce the land slope and prevent gully formation. The method adopted will be site specific to the point of dumping during mining

Level Terrace & Reverse slope Terrace



Schematic Showing Slope designs for stable Dump/fines stockpiles



The measures proposed in the schemes require continuous involvement of man and machinery support which could be facilitated by the user agency .The method will be implemented by ineteegrating waste dumping practice as a part of mining as per approved mining plan and mine closure plan .In view of the above, it is appropriate that the user agency, i.e Bolani Ores Mines of M/s SAIL shall undertake the jobs enumerated in the scheme through their specialized engineering departments in consultation with local forest officials .

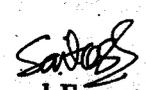
PROVISION OF FUNDS

As the job specifically uses mining machineries , the user agency will deploy it's own mining machineries along with operators for terracing the dump slopes as per approved mining plan.The total cost of the implementation of this scheme will be borne by user agency at their Project Cost .

Place :Bolani

Date :


महाप्रबंधक (खनन) / General Manager (Mines)
सेल - General Manager अयक्स खदान
SAIL-RMD-Bolani Ores Mines
Bolani Ores Mines
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,
Divisional Forest Officer
Keonjhar Division

Annexure-X

Scheme
OF
TOP SOIL MANAGEMENT

in compliance to

Condition no – VII(e) of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for
Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn &Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

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II	PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA\	
III	OBJECTIVE, WORK SCHEDULE & METHODOOGY	
IV	PROVISION OF FUNDS	
	Annexures	
	Annexure-I	

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, Tahasilof Keonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha .

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FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha+ 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (vii):

"Following activities shall be undertaken by the user agency at the project cost and appropriate cost of the plan/scheme shall be deposited in Adhoc CAMPA Account .

(C) No damage shall be caused to the top-soil and the user agency will follow the top soil management plan ..."

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO Keonjhar, preparation of the Top Soil Management Plan has been undertaken in consultation with the State Forest Department , for implementation at the project cost.

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA

Bolani Ores Mines (6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest (Karo RF) , Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- Joda Barbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is its availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-

Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes Terminalialata, Lagerstroemia perviflora, Anogeissuslatifolia, Terminaliabelerica, Syzygiumcumini, Mangiferaindica, Schleicheraoleosa, Adina cordifolia, Pterocarpusmarsupium, Bombaxceiba, Brideliaretusa, Madhucaindica. The middle story is represented by Syzygiumcumini, Ougeiniaougenensis, Careyaarborea, Treamaorientalis, Emblicaofficinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigoferapulchella, Ardisiasolenacea, Flemingiachhapar, Helicteresixora and Clerodendronviscosum etc. The prevailing climbers include Bauhinia vahlii, Combretumdecandrum and Beutiaparviflora. The grasses over the forest floor include Chrysopogonaciculatus, Imperatacylindrica, Dicanthiumcarricosum, Cynodondactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand:Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowsable and xerophytic in habit.

SOIL TYPE

Details of soil studies were conducted during impact assessment and other scientific studies . As per the sources, the top soil layer is very thin . The soil of the lease hold area have characteristic reddish tinge and predominant soil type of the region may be classified as red earth & red loam . The dominant colours found in field conditions are dusky red, reddish brown, dark reddish brown, red, dark red etc. The texture of the soil varies from sandy loamy in the regions like afforested waste dump, back filled waste dump, barren land and sandy clay loamy in the areas like agricultural field, old tailing pond and tailing pond discharged area. This type of soil coupled with gravel, boulder etc. particularly in the waste dumps and mined out areas, allows, free drainage of water, down in the profile causing intense leaching. The water

retention capacity of soil varies from location to location in side the lease hold area. The water retention capacity of soil in agricultural field, valley and tailing pond areas are high and that in the barren land is comparatively quite low. Most of the soil found to be slightly acidic in nature and this may be due to weathering and bacterial action on available sulphur. The available N P K analysis of the soil indicates that the soil in the BolaniBasti Agricultural land and that in the Reserve Forest area are quiet good as compared to the active waste dump and tailing pond areas . The top soil inside the 6.90 sq miles ML area is scanty .As such there is no excavation of ore at present inside the 6.90 sq miles MiningLease .Whatever top soil is available that is to be excavated during the future development of the mine pits is rocky in nature .

CHAPTER- III

OBJECTIVE, WORK SCHEDULE &METHODOOGY

As there is no excavation of ore at present inside the 6.90 sq miles MinjngLease , there is not any active Topsoil dump . Precautionary measures will be taken , as per the approved mining plan,to prevent any damage to the top soil, on resumption of mining . The excavated top-soil will be utilized for concurrent plantation works in the mine as per this plan.

On the commencement of mining some of the top soil will be stored temporarily until it can be used for plantation works / dump reclamation. Minimum storage time shall be attempted to avoid nutrient loss.In this scheme, emphasis has been given to prevent damage of top soil to be excavated from the quarries on resumption of mining activities .

OBJECTIVE OF THE PLAN

The objectives of Top soil management Plan is to provide suitable topsoil material excavated from expanding quarries for rehabilitation work of dumps, back filled areas and degraded lands and conserve top soil in and around the degraded forest land within the lease .

DETAILS OF PROPOSED WORK SCHEDULE

The average thickness of topsoil in the virgin areas will be around 5 cm - 10.cm. The quantity of topsoil to be stripped from the site will be used to rehabilitate the OB dumps, backfilled and other barren/degraded areas .Prior to stripping, vegetation will be removed or reduced by jungle/bush clearing. A proposed procedure for soil handling is presented below which includes soil handling measures which optimise the retention of soil characteristics (in terms of nutrients and micro-organisms) favourable to plant growth:

METHODOLOGY

In accordance with the above objective of providing sufficient stable soil material for rehabilitation and to optimise soil recovery, the following strategies will be adopted as per approved mining plan :

1. Topsoil stockpiles are to be located outside quarry areas ;

2. Promote re-vegetation of top soil dumps including degraded lands by sowing of seedsover 60.0 ha degraded forest land .
3. To utilise stripped top soil as soon as possible for rehabilitation in phase wise in accordance with the rehabilitation pattern as per approved Mining Plan.
4. Soil and Moisture Conervation measures in the degraded forest areasover 60.0 ha degraded forest land .

CHAPTER-IV

PROVISION OF FUNDS

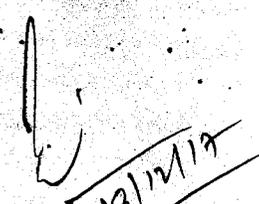
TOTAL COST OF TOP SOIL MANAGEMENT PAN

	Cost breakups	Value in Rs
1.	Cost of sowing of seedsover 60.0 ha degraded forest land	6,24,300.00
2	Cost of 60 nos of LBCD	4,19,149.80
	Cost of Staggard Contour Trenches over 60.0Ha	7,68,600.00
	Total	1,812,049.80
3	Add 20% escalation	362409.96
	Total	2,174,459.76
		21,74,460/- (say)
(Rupees Twenty One Lakhs seventy four thousand four hundred and sixty only)		

The total cost of the implementation of above measures will be Rs.21,74,460/- (Rupees Twenty One Lakhseventy four thousand four hundred and sixtyOnly) as detailed above which will be borne by user agency at their Project Cost .The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency .

Place :Bolani

Date :


 महाप्रबंधक (खनन) / General Manager (Mines)
 सेल - अरि खनन बोलाणी अयक्स खदान
 SAIL BMD Bolani Mines
 बोलाणी-758 037, क्योझर, ओडीसा
 Bolani-758 037, Keonjhar, Odisha


 Divisional Forest Officer
 Keonjhar Forest Division,

Office Seal
 Divisional Forest Officer
 Keonjhar Division

ANNEXURE – I
COST ESTIMATE OF SOWING SEEDS AND SMC PROPOSALS

Estimate of Loose Boulder Structure (LBCD), of size 10' x 10' x 5' (as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF &HoFF, Govt of Odisha .

(I) **Loose Boulder Check dams (LBCD)**

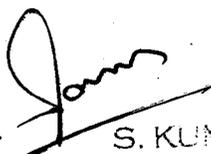
S I	Item	Quantity in .cum	Rate Cost / per cum) in Rs	Cost per LBCD (Rs)
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms .	9.9	156.40	1548.36
3	Total required Labour	9.9	350.25	3467.47
	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83
	Total Cost of erecting 60nos of LBCD estimated for the site			4,19,149.80

(II) **Staggered Contour Trench (SCT)**

Sl	Item	Mandays	Rate per manday in Rs	Cost of SCT (Rs)
1	Staggered contour trench of size 2.5m x 0.5m x 0.5m) at the rate of 300 ST / ha (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum	60	213.50	12810.00
	Total Cost of SCT for 60ha estimated for the site			12810.00 x 60 = 7,68,600.00

(III) **Cost of sowing of seeds**

Sl	Item	Mandays/ quantity required per ha	Rate per manday/Rate per kg in Rs	Cost perha (Rs)
1	Collection of seeds of local grasses	20	213.50	4270.00
2	Purchase of stylosyntheseshamata	25	200/- /kg	4000.00
3	Manday Cost of broadcasting and maintenance	10	213.50	2135.00
4	Total cost of sowing of seeds per hectare			10405.00
5	Total Cost ofsowing of seeds over 60.0 hectare			6,24,300.00


S. KUMAR
Deputy Manager (Civil)
SAL-RMD-3011

Annexure-XI(A)

Scheme
OF
FENCING, PROTECTION AND REGENERATION
OF THE SAFETY ZONE AREA

in compliance to

Condition no – VIII of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for
Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



ELEMENTS OF THE SCHEME

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	3
II	PHYSIOGRAPHY , GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA	4
III	SITE SELECTION &OBJECTIVE OF THE SCHEME	5
IV	DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION	6
V	COST STRUCTURE OF PLANTATION& SMC WORKS	10
VI	PROVISION OF FUNDS	13
VII	ANNEXURES	

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL.

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha. for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, Govt has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease.

The 6.90 Sq Miles ML of Bolani Ores Mines of M/s SAIL, applied during 2nd RML over 1586.36 ha, involves 339.210 ha of Karo RF, 146.009 ha of Revenue Forest, 238.093 ha of Non-forest land recorded as forest as on 25.10.1980. The total Non-Forest land involved in the mining lease is 463.029 ha as per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha, the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha ..

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML

Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha .+ 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (viii), the following has been stipulated :

“Fencing, protection and regeneration of the safety zone area [7.5 meters strip shall be kept within the mining lease boundary and area of the- safety zone shall be part of the total area of mining lease as per the Ministry’s guidelines dated 27.05.2015] shall be done within three year at the project cost from the issue of Stage-II Clearance....”

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017, preparation of the scheme Fencing, protection and regeneration of the safety zone area has been undertaken in consultation with the State Forest Department, for implementation at the project cost .

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- JodaBarbil plateau extending from Chamaipur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease .

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia bellerica, Syzygium cumini, Mangifera indica, Schleicheria oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres isora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium carricosum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowsable and xerophytic in habit.

CHAPTER- III

SITE SELECTION & OBJECTIVE OF THE SCHEME

SITE SELECTION

Safety zone earmarked over 7.5 meter strip along the lease boundary and 50 meters strip of Left side of Karo River coming within sabik forest has been included in the scheme of safety zone. Total 11.061 ha. of forest land viz 7.5m all along the lease boundary and 50 m along Karo River passing through the mining lease coming within sabik forest (excluding private plots) has been covered under this scheme . The forest land within the safety zone within boundary of the ML area (6.90 sq miles ML), is having crown density <0.4 and is degraded in nature . Afforestation in ANR model with gap plantation will be taken up over the area over 11.061 ha .The earmarked safety zone area has been shown on the authenticated map submitted along with the diversion proposal . The present scheme aims at preparation of site specific afforestation scheme over above 11.061 Hadegraded forest land in ANR Plantation mode (@600 saplings / Ha) with adequate soil and Moisture conservations .

OBJECTIVE OF THE SCHEME:

The main objective of the present scheme is to fulfil the first part of the condition-viii stipulated in the grant order of stage-I, of MoEF,GOI and accordingly undertake fencing and protection of the safety zone area for regeneration of the degraded forest lands within sabikkisam forest land within 6.90 sq miles ML area of Bolani Iron Ore Mines to restock these degraded forest crop by taking up tending operation of the existing forest crop and supplementing with ANR plantation at the rate of 600 plants per hectare in blank, in consultation with State Forest Department. The scheme will be implemented within a period of three(3) years from the date of getting Stage-II approval:

Hence, the main objective of the present regeneration scheme is as follows :-

- 1) To undertake barbed wire fencing around the safety zone
- 2) To undertake afforestation inside safety zone by ANR plantation mode
- 3) To protect the area against encroachment, illicit felling, fire incidences, grazing and all other forms of biotic interference and allow unhindered growth of the saplings.

The User Agency shall be responsible for placement of the required funds as per approved scheme.

CHAPTER- IV

DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be undertaken as per the plan. The SMC works will be undertaken over the different patches shown in the map and planting plan. This plan will be followed when actual planting is carried out.

Native Species to be planted:

1. *Dalbergiasissoo*(Sissoo)
2. *Azadirachtaindica*(Neem)
3. *Gmelinaarborea* (Gambhari)
4. *Terminaliabelerica*(Bahada)
5. *Terminaliachebula*(Harida)
6. *Pongamiapinnata* (Karanja)
7. *Emblicaofficinalis* (Ainala)
8. *Madhucaindica*(Mahul)
9. *Mangiferaindica* (Amba)
10. *Artocarpusheterophylla* (Panash)
11. In the peripheral areas of the site (susceptible to grazing) may be planted with non-browsable species like *Tectonagrandis* (teak), *Acacia*, *Alstoniascholaris* Chhatian),

Simarubaglauca, *Anonnasquamosa* (Sitaphal), etc. . Planting operation is to be done as per Odisha Forest Plantation Manual-1977 & the guideline & norms of forest & Environment Department.

12. The non native species to be included are *Acacia mangium*, *Simaroubaglauca* on some selected sites only.

B. PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @ 660 seedlings per ha including seedlings for 10% causality replacement.

B(II)-SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING

The planting area will be surveyed and demarcated with GPS coordinates of respective pillar no as per the GPS map along with the field notes before undertaking plantation .

B(III) SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS.

The clearing of the site involving removal of invasive weeds, bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 30 x 30 x 30 cm. will be dug @600 per ha. in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION

D(1)-CASUALTY REPLACEMENT

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over..

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the stumps is complete or after the seedlings have started throwing up new buds.

D(3)-MANURING AND INSECTICIDE APPLICATION

On degraded sites urban compost or farmyard manure, wherever available, will be added to the soil while refilling the pits. As regards artificial fertilizers, the minerals required and dosage @ 50 grams of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-PROTECTION AGAINST FIRE AND GRAZING

Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved cost norm for protecting the plantation from grazing with involvement of VSS of nearby villages.

D(5)-SOIL MOISTURE CONSERVATION MEASURES

Soil and moisture conservation activities are to be taken up and dovetailed to plantation/afforestation activities in order to retain the soil and conserve maximum precipitation on forest floor to improve water availability in Forests. It is to be practised as a core forestry activity independent of other forestry interventions. In order to achieve the objective and implement the programme efficiently, a wellplanned strategy is indispensable.

The objective of the Soil and Moisture Conservation works proposed here is :

- I. To counteract soil erosion by reducing water flow velocity
- II. To achieve soil moisture/water balance and to increase groundwater recharge to prevent drying out due to water shortage in drought period.
- III. To provide sufficient storage by erecting runoff Bunds along field boundaries without reference to contour, as the area is a low rainfall area.

The strategy adopted for Soil and Moisture conservation measures in the scheme is enumerated below :

- (i) Loose Boulder Check dams (LBCD)
- (ii) Staggered Trenches and percolation pits

Loose Boulder Check dams (LBCD) :As per the condition of identified site, Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' as drainage line treatment. This structure is to be created across the drainage line for retention of runoff and reduction of velocity. Such structures should preferably have top width of one meter with upstream slope of 1:1 and downstream slope of 1:5. On either side of the LBCD, trenches of prescribed dimension should be created to allow the vertically running water to spread on either side at the obstruction point which will reduce the velocity effectively. Such structures will also capture more rainwater and enhance infiltration.

Staggered Contour Trenches (SCT):

The prime objective of any soil and moisture conservation work is to retain run off water flowing down the slope. Enhancement of infiltration is the ultimate objective of any SMC scheme which facilitates recharging of ground aquifer. Restriction of sub-surface flow

→ makes water available to the vegetation within root zone. Treatment of forest floor and drainage line with suitable interventions helps in retention of rain water and depending on the nature of soil profiles allows variable quantities of water to infiltrate. The staggered trenches are primarily aimed to break the runoff and not to let the fertile soil particles lost by water.

CHAPTER- V

COST STRUCTURE OF PLANTATION& SMC WORKS

A. COST STRUCTURE OF PLANTATION : ESTIMATE OF COST FOR 1.00 HA. UNDER ANR PLANTATION MODEL COST NORM FOR ANR PLANTATION @ 600 PLANTS PER HECTARE, WAGE RATE Rs. 213.50 /- PER DAY

Sl. No.	Item of work	Preferable period of execution	Person days	Labour (Rs.)	Material (Rs.)	Total
0th year (Advance work) Pre-planting operation						
1	Survey, Demarcation & pillar posting, GPS Reading with mapping	Nov-Dec	2	427	0	427
2	Site preparation.	Nov-Dec	2	427	0	427
3	Silvicultural Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots etc	Jan-Feb	5	1067.5	0	1067.5
4	Nursery cost (6 months old seedling) part @Rs.9.45/- seedling (Rs.6.67 in 0 th year + Rs.2.78 in 1 st year) for 660 seedlings (600+60)	Jan-March	16.5	3522.75	1102	4624.75
5	Contingency and Unforeseen Expenditures		0	0	198	198
	Sub-Total		25.5	5444.25	1300	6744.25
1ST YEAR OPERATION						
1	Nursery cost (6 months old seedling) balance @Rs.2.78 for 660 seedling	Apr-Jul	8	1708	235	1943
2	Pitting 30 cm cube size	Feb/Mar	18	3843	0	3843
3	Carriage and planting including casualty replacement	Jul/Aug	15	3202.5	0	3202.5
4	Complete weeding, Soil working, Manuring	Aug/Sep	18	3843	0	3843
5	Cost of Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 and Granular Insecticide 5 gms/ plant @Rs.80/- per Kg= Rs.240.00	Aug/Sep	0	0	2640	2640
6	Cost of Chemical fertilizer (a) Urea 70 gms/ plant in two subsequent doses @Rs.6/- per Kg= Rs.252.00 (b)NPK 50 gms/ plant @Rs.24/- per kg= Rs.720.00 as basal dose.		0	0	972	972
7	Silvicultural Operation involving clearance of weeds, cutting of climbers, singling of shoots etc.	Sep/ Oct	15	3202.5	0	3202.5
8	Soil Conservation Measures (Staggered trenches of dimension 2m X 0.5m X 0.5m @60 nos per ha) or its equivalent	Sep/ Oct	20	4270	0	4270
9	Fireline Tracing and Inspection path	Feb/ Mar	3	640.5	0	640.5
10	Watch & ward	Aug-Mar	7	1494.5	0	1494.5
11	Contingency and Unforeseen Expenditures		0	0	353	353
	Sub-Total		104	22204	4200	26404

2 ND YEAR OPERATION						
1	Casualty Replacement including cost of seedling, carriage and planting	Jul/ Aug	3	640.5	567	1207.5
2	Complete weeding and cultural operations	Sep/ Oct	6	1281	0	1281
3	Soil working and manuring	Sep/ Oct	6	1281	0	1281
4	Cost of Fertilizer and insecticide (a) Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 (b) Granular Insecticides 5 gms/ plant for 60 plants 300 gms @Rs.80/- per Kg= Rs.24.00	Sep/ Oct	0	0	2424	2424
5	Soil Conservation Measures (Renovation of staggered trenches etc.)	Sep/ Oct	8	1708	0	1708
6	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
7	Watch & ward (whole year)	Apr/ Mar	7	1494.5	0	1494.5
8	Contingency and Unforeseen Expenditures		0	0	193	193
	Sub-Total		31	6618.5	3184	9802.5
3 RD YEAR OPERATION						
1	Complete weeding and cultural operations	Aug/ Sep	3	640.5	0	640.5
2	Soil working	Aug/ Sep	3	640.5	0	640.5
3	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
4	Watch & ward (whole year)	Apr-Mar	7	1494.5	0	1494.5
	Sub-Total		14	2989	0	2989
4 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
5 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
6 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
7 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
8 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
9 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5

2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
10TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
	Grand Total		195.5	41739.25	8684	50423.25

ABSTRACT

Year	Person days	Labour	Material (Rs)	Total (Rs)
0th Year	25.5	5444.25	1300	6744.25
1st Year	104	22204	4200	26404
2nd Year	31	6618.5	3184	9802.5
3rd Year	14	2989	0	2989
4th Year	3	640.5	0	640.5
5th Year	3	640.5	0	640.5
6th Year	3	640.5	0	640.5
7th Year	3	640.5	0	640.5
8th Year	3	640.5	0	640.5
9th Year	3	640.5	0	640.5
10th Year	3	640.5	0	640.5
Total	195.5	41739.25	8684	50423.25
Total Cost Norm per ha.				50423.25
Total Cost of plantation for 11.061 ha.				5,57,731.56

ADDITIONAL COST PROPOSED FOR PROTECTION, FENCING AND SMC WORKS WITHIN SAFETY ZONE FOR REGENERATION

1	SMC measures- LBCD structure of dimension 10' x 10' x 5' @Rs. 6985.83/- (cost of Transportation within a lead of 5.0 km i.e. Rs. 1548.36+ cost of construction Rs.5437.47) per LBCD structure for 15nos LBCD structures.	1,04,787.45
2	Staggered trenches(2.5mt x 0.5mt x 0.5 mt) @60MD per ha over 11.061 ha @ Rs. 12810 per ha.	1,41,691.41
3	Cost of barbed wire fencing over 2.5 kms (Annexure-II)	28,33,575.00
4	Cost of 2nbs Protection watchers @ 213.50 per day for 10 years	15,58,550.00
5	Additional incentive (3% of cumulative expenditure) for VSS/Fr./FG proposed for more than 80% survival and very good growth during 4 th year of maintenance as per recommendation of DFO and RCCF. @Rs. 1379/- per ha for 11.061 ha.	15,253.11
6	Additional EPA expenses if implemented through VSS at rate Rs.1200/- in 0 th Year, Rs.2400/- in 1 st Year, Rs.1800/- in 2 nd Year, Rs.600/- in 3 rd Year, Rs.600/- in 4 th Year, Rs.600/- in 5 th Year, Rs.600/- in 6 th year, Rs.600/- in 7 th year, Rs.600/- in 8 th year, Rs.600/- in 9 th year, Rs.600/- in 10 th year @ Rs. 10200/- per ha for 11.061 ha	1,12,822.20
	Total	47,66,679.17

CHAPTER – V

PROVISION OF FUNDS

TOTAL COST OF THE SCHEME FOR FENCING, PROTECTION AND
REGENERATION OF THE SAFETY ZONE AREA

	Cost breakups	Value in Rs
1.	Cost of Plantation over 11.061 hasafety zone@ Rs.50,423.25/- per ha.	5,57,731.56
2	Total additional cost including 5 nos of protection watchers and barbed wire fencing	47,66,679.17
	Total	53,24,410.73
3	Add 20% escalation	10,64,882.14
	Total	63,89,292.87
		63,89,293.00/- (say)
	(Rupees Sixty three lakhs eighty ninethousand and two hundred ninety three only)	

The total cost of the implementation of Safety zone scheme will be Rs.63,89,293.00/- (Sixty three lakhs eighty nine thousand and two hundred ninety three only) as detailed above which will be borne by user agency at their Project Cost .The User Agency shall be responsible for placement of the required funds as per approved scheme.The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency .

Place :Bolani

Date :

महाप्रबंधक (खनन) / General Manager (Mines).
सेल - आर एम डी - बोलाणी - अर्थक्स खदान
SAIL General Manager
बोलाणी-758 037, क्योडक, ओडीसा
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,

Office Seal
Divisional Forest Officer
Keonjhar Division

ANNEXURE – I

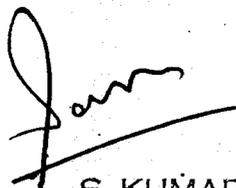
COST ESTIMATE OFSMC PROPOSALS WITHIN SAFETY ZONE

(I) **Loose Boulder Check dams (LBCD)** Estimate of Loose Boulder Structure (LBCD), of size 10' x 10' x 5' (as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF &HoFF, Govt of Odisha .

S	Item	Quantity in cum	Rate Cost / per-cum) in Rs	Cost per LBCD (Rs).
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5').= 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms .	9.9	156.40	1548.36
3	Total required Labour	9.9	350.25	3467.47
	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83
	Total Cost of erecting 15nos of LBCD estimated for the site			1,04,787.45

(I) **Staggered Contour Trench (SCT)**

Sl	Item	Mandays	Rate per manday in Rs	Cost of ST perha (Rs)
1	Staggered contour trench of size 2.5m x 0.5m x 0.5m) at the rate of 300 ST / ha (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum	60	213.50	12810.00
	Total Cost of SCT for 11.061 ha estimated for the site			12810.00x11.061 ha = 1,41,691.41

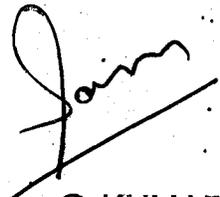


S. KUMAR:
Deputy Manager (Civil)
SAIL-RWD-SOM

ANNEXURE – II

ESTIMATE OF COST FOR BARBED WIRE FENCING

No of pillars required 500 nos.		
Cost of 1 pillar	: Rs.	568.00
Transportation charges	: Rs.	244.00
Cost of base fixing	: Rs.	244.00
Cost of fixing barbed wire @ 49.00	: Rs.	49.00
Total Cost for fixing 1 pillar	: Rs.	1105.00
Cost for 500 pillars	: Rs.	5,52,500.00
Cost of barbed wire (1 Qntls.) @ 13,200.00		
Cost barbed wire (5+2) strand		
7500 mtrs or 15 Qntls.	: Rs.	1,98,000.00
Total cost for 1 Km.	: Rs.	7,50,500.00
Total cost for fencing over 2.5 Kms	: Rs.	1876250.00
Maintenance 5% - Rs. 93812.50/- per annum		
For 10 years	: Rs.	938125.00
Provision of Gate 2 nos. @ Rs.9,600/- per gate	: Rs.	19200.00
Total barbed wire fencing over 2.5 Kms.	: Rs.	28,33,575.00



S. KUMAR
Deputy Manager (Civil)
SAIL-RMD-BOW

Annexure-XI(B)



e-PayOrder Details

e-PayOrder Number CNAAIWXQE2
Debit Status Success

Date 13-Apr-2018

PAY ORISSA CAMPA

RUPEES (in words) Eighty Six La khs Sixt y Six T thousand Five
Hundred and Ninety only

Rs 86,66,590.00

ACCOUNT NO 00000011180766769

STATE BANK OF INDIA

BOLANI

DEBASHISH BEHERA
Maker

RAJEEV KUMAR
Authorizer 1

RABINDRA NATH OJHA
Authorizer 2

"CNAAI WXQE2"

Counterfoil Description SAIL RMD BOM
Transaction Type NEFT Funds transfer
GSTIN Number --

Debit Account Details

Account No.	Branch	Amount
00000011180766769	BOLANI	86,66,590.00

Credit Account Details

Beneficiary Name/Account No.	Bank/Branch/IFSCCode	Amount	Credit Status	UTR No.
ORISSA CAMPA/150825820126134	NEW DELHI LODHI COMPLEX/NEW DELHI LODHI COMPLEX/CORP0000371	86,66,590.00	Credited to Beneficiary Account	SBIN818103124798

Annexure-XI(C)

**SCHEME FOR 1.5 TIMES SAFETY ZONE
PLANTATION OVER 22.122 HA. OF
DEGRADED FOREST LAND IDENTIFIED
IN LAXMIPOSI RF UNDER CHAMPUA
FOREST RANGE OF KEONJHAR FOREST
DIVISION AGAINST BOLANI ORE MINES
(6.90 SQ. MILES)
OF**

M/s STEEL AUTHORITY OF INDIA LTD

**In compliance with the condition No. viii of Stage- I approval vide
F. No. 8-87/1996-FC (Vol-I) dated 12.09.2017 of MoEF&CC, Govt. of India.**

ELEMENTS OF THE SCHEME FOR COMPENSATORY AFFORESTATION

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	1 to 2
II	DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION	3 to 3
III	DELINEATION OF PROPOSED AREA ON SUITABLE MAP	4 to 4
IV	AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION	4 to 4
V	DETAILS OF WORK SCHEDULED PROPOSED FOR COMPENSATORY AFFORESTATION	5 to 6
VI	COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION	7 to 9
VII	DETAILS OF PROPOSED MONITORING MECHANISM	10 to 10
	ANNEXURES	11 to 13

Decision Support System of Degraded forest land identified in Laxmiposi RF under Champua Range

Sl. No.	Name of the Patch	Verified in Decision Support System (in ha)				Length of barbed wire fencing (in KM)
		Total Area	Non-forest	Open-forest	Water	
1	Laxmiposi RF-Patch- 1	5	5	0	0	1.50
2	Laxmiposi RF-Patch- 2	8	7	1	0	1.42
3	Laxmiposi RF-Patch- 3	10	10	0	0	1.33
	Total	23	22	1	0	4.25

CHAPTER- VI

**COST NORM FOR ANR PLANTATION @ 800 PLANTS PER HECTARE
WAGE RATE Rs. 213.50/- PER DAY**

A. ESTIMATE OF COST FOR 1.00 HA. UNDER ANR PLANTATION MODEL

0th year (Advance work) Pre-planting operation.

Sl. No	Item of Work	Preferable period of execution	Person days	Labour (Rs.)	Material (Rs.)	Total (Rs.)
1	Survey demarcation and Pillar posting , GPS Reading with mapping	Nov/Dec	2	427.00	0	427.00
2	Site Preparation	Nov/Dec	2	427.00	0	427.00
3	Silviculture Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots etc.	Jan/Feb	5	1067.50	0	1067.50
4	Nursery cost (6 months old seedling) part @ Rs. 9.45/- seedling (Rs. 6.67 in 0th year + Rs. 2.78 in 1st year) for 880 seedlings (800+80)	Jan-Mar	22	4697.00	1470.00	6167.00
5	Contingency and Unforeseen Expenditure		0		230.00	230.00
Sub Total			31	6618.50	1700.00	8318.50
1st Year operation						
1	Nursery cost (6 months old seedling) balance @Rs. 2.78 for 880 seedlings	Apr-Jul	11	2348.50	246.00	2594.50
2	Pitting 30 cm cube size	Feb/Mar	24	5124.00	0	5124.00
3	Carriage and planting including casualty replacement	Jul/Aug	20	4270.00	0	4270.00
4	Complete weeding, Soil working, Manuring	Aug/Sep	24	5124.00	0	5124.00
5	Cost of vermicompost @ 200 gms/ plant @ Rs. 20/- per kg = Rs. 3200.00 and Granular Insecticide 5 gms/ plant @ Rs. 80 per kg = Rs.320.00	Aug/Sep	0	0	3520.00	3520.00
6	Cost of chemical fertilizer (a) Urea 70 gms/ plant in two subsequent doses @ Rs.6 per kg =Rs 336.00 (b) NPK 50 gms/ plant @ Rs. 24/- per kg= Rs. 960.00 as basal dose	Feb/Mar	0	0	1296.00	1296.00
7	Fireline Tracing and inspection path		3	640.50	0	640.50
8	Silvicultural Operation involving clearance of weeds, cutting of climbers, singling of shoots etc.		15	3202.50	0	3202.50
9	Soil Conservation Measures (Staggered trenches of dimension 2 m x 0.5 m x 0.5 m @ 60 nos per ha) or its equivalent		20	4270.00	0	4270.00
10	Watch & ward		7	1494.50	0	1494.50
11	Contingency and Unforeseen expenditure		0	0	338.00	338.00
12	Fireline Tracing and inspection path	Feb/Mar	3	640.50	0	640.50
Sub Total			124	26474.00	5400.00	31874.00
2nd year operation						
1	Casualty Replacement including cost of seedling, carriage and planting		4	854.00	756.00	1610.00
2	Complete weeding and Cultural Operations		8	1708.00	0	1708.00
3	Soil working and manuring		8	1708.00	0	1708.00
4	Cost of fertilizer and insecticide (a) Vermicompost 200 gms/ plant @ Rs. 20/ per kg = Rs.3200		0	0	3232.00	3232.00

	(b) Granular insecticide 5 gms/ plant for 80 plants 400 gms @ Rs. 80/- per kg=Rs.32.00				
5	Fireline Tracing and inspection path	1	213.50	0	213.50
6	Soil conservation Measures (Renovation of staggered trenches etc.)	8	1708.00	0	1708.00
7	Watch & ward (whole year)	7	1494.50	0	1494.50
8	Contingency and Unforeseen expenditures	0	0	224.00	224.00
Sub Total		36	7686.00	4212.00	11898.00
3rd Year operation					
1	Complete weeding and Cultural Operations	4	854.00	0	854.00
2	Soil working	4	854.00	0	854.00
3	Fireline Tracing and Inspection Path	1	213.50	0	213.50
4	Watch & Ward (Whole Year)	7	1494.50	0	1494.50
Sub Total		16	3416.00	0	3416.00
4th Year operation					
1	Fireline Tracing and Inspection Path	1	213.50	0	213.50
2	Watch & Ward and Cultural Operation	2	427.00	0	427.50
Sub-Total		3	640.50	0	640.50
5th Year operation					
1	Fireline Tracing and Inspection Path	1	213.50	0	213.50
2	Watch & Ward and Cultural Operation	2	427.50	0	427.50
Sub-Total		3	640.50	0	640.50
6th Year operation					
1	Fireline Tracing and Inspection Path	1	213.50	0	213.50
2	Watch & Ward and Cultural Operation	2	427.50	0	427.50
Sub-Total		3	640.50	0	640.50
7th Year operation					
1	Fireline Tracing and Inspection Path	1	213.50	0	213.50
2	Watch & Ward and Cultural Operation	2	427.50	0	427.50
Sub-Total		3	640.50	0	640.50
8th Year operation					
1	Fireline Tracing and Inspection Path	1	213.50	0	213.50
2	Watch & Ward and Cultural Operation	2	427.50	0	427.50
Sub-Total		3	640.50	0	640.50
9th Year operation					
1	Fireline Tracing and Inspection Path	1	213.50	0	213.50
2	Watch & Ward and Cultural Operation	2	427.50	0	427.50
Sub-Total		3	640.50	0	640.50
10th Year operation					
1	Fireline Tracing and Inspection Path	1	213.50	0	213.50
2	Watch & Ward and Cultural Operation	2	427.50	0	427.50
Sub-Total		3	640.50	0	640.50

ABSTRACT

Year	Person days	Labour	Material	Total
0th Year	31	6618.50	1700.00	8318.50
1st Year	124	26474.00	5400.00	31874.00
2nd Year	36	7686.00	4212.00	11898.00
3rd Year	16	3416.00	0	3416.00
4th Year	3	640.50	0	640.50
5th Year	3	640.50	0	640.50
6th Year	3	640.50	0	640.50
7th Year	3	640.50	0	640.50
8th Year	3	640.50	0	640.50
9th Year	3	640.50	0	640.50
10th Year	3	640.50	0	640.50
Total	228	48678.00	11312.00	59990.00
Total Cost of plantation (22.122 ha.)				1327098.78

ADDITIONAL COST PROPOSED

1	SMC measures- LBCD structure of dimension 10' x 10' x 5' @Rs. 6844.86/- per LBCD structure for 30 LBCD structures.		205345.80
2	Staggered trenches @130MD per ha over 22.122 ha.		613996.11
3	Additional incentive (3% of cumulative expenditure upto 4 th year) for VSS/Fr./FG proposed for more than 80% survival and very good growth during 4 th year of maintenance as per recommendation of DFO and RCCF. @Rs. 1665/- for 22.122ha.		36833.13
4	Additional EPA expenses if implemented through VSS at rate Rs.1200/- in 0 th Year, Rs.2400/- in 1 st Year, Rs.1800/- in 2 nd Year, Rs.600/- in 3 rd Year, Rs.600/- in 4 th Year, Rs.600/- in 5 th Year, Rs.600/- in 6 th year, Rs.600/- in 7 th year, Rs.600/- in 8 th year, Rs.600/- in 9 th year, Rs.600/- in 10 th year @ Rs. 10200/- per ha for 22.122 ha		225644.40
5	Barbed Wire Fencing for 4.25 Km.	750500.00	3189625.00
	Barbed wire fencing- maintenance @ 5% /Annum for 10 year	159481.25	1594812.50
	Barbed wire fencing-Provision of gate @Rs. 9,600/ gate for 3 gates	9600.00	28800.00
	Sub-Total		5895056.94

N.B:- Unit cost of LBCD structures of different dimension along with staggered trenches and Barbed wire fencing is enclosed as Annexure- I, II & III.

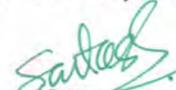
TOTAL COST OF PROJECT

1.	Plantation over 22.122 ha @ Rs. 59990.00/- per ha.	1327098.78
2	Total additional cost	5895056.94
	Total	7222155.72
3	Add 20% escalation	1444431.14
	Grand Total	8666586.86
		Or say
		8666590.00

(Rupees eighty-six lakh sixty-six thousand five hundred ninety) Only

A. PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 8666590.00 (Rupees eighty-six lakh sixty-six thousand five hundred ninety) only shall be deposited by the User Agency M/s Steel Authority of India Limited on approval of the scheme to the Ad-hoc CAMPA Account and the funds will be utilized for raising of Compensatory Afforestation by the Divisional Forest Officer, Keonjhar Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar.


Divisional Forest Officer,
Keonjhar Division

CHAPTER- VII

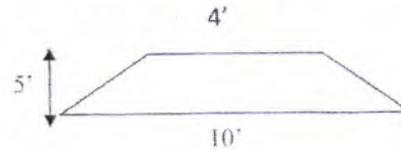
DETAILS OF PROPOSED MONITORING MECHANISM

Compensatory Afforestation will be taken up in the identified site by the Range Officer, Champua Range of Keonjhar Division. The Range Forest Officer, Champua Range will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests, (Affn.) and Divisional Forest Officer, Keonjhar Division. GPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Greenwatch Portal of NIC, MoEF, Govt. of India for the purpose of online monitoring. Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Champua Range and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Rourkela Circle and Chief Conservator of Forests (PP&A), O/o the Pr. Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.


**Divisional Forest Officer,
Keonjhar Division**

Annexure-I

LOOSE BOULDER CHECK DAM



(A) Size - 10' x 10' x 5'

(i) Requirement of boulder (**Procured from quarry**)

$$\frac{1}{2} (10' + 4') \times 10' \times 5' = 350 \text{ cft or } 9.90 \text{ cum}$$

Cost of Boulder @ Rs. 199/- per cum for 9.9 cum - Rs. 1,970.00/-

(ii) Labour for construction of LBCD for 1 cum

Mulia 1.04 No x 213.50 = 222.04

Mason special 0.17No. x 273.50 = 46.49

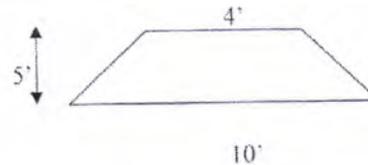
Stone packer - 0.35No. x 233.50 = 81.72

Total = 350.25

For 9.90 cum	9.90 x 350.25 =	Rs. 3467.47/-
		Rs. 5437.47/-
		(Rounded to Rs 5438/-)

Rate for 1 cum Rs. 549.25 per cum or Rs. 550 per cum

LOOSE BOULDER CHECK DAM



(A) Size-10' x 10' x 5'

(i) Requirement of boulder (**Picked up and broken**)

$$\frac{1}{2} (10' + 4') \times 10' \times 5' = 350 \text{ cft or } 9.90 \text{ cum}$$

@ Rs.185/- per cum

Rs. 1,831.50/-

(ii) Labour for construction of LBCD for 1 cum

Mulia 1.04 No x 213.50 = 222.04

Mason special 0.17No. x 273.50 = 46.49

Stone packer - 0.35No. x 233.50 = 81.72

Total = 350.25

For 9.90 cum	9.90 x 350.25 =	Rs. 3467.47/-
		Rs. 5298.97/-
		(Rounded to Rs 5300/-)

For 1 cum Rs.535.25/ cum or Rs. 535/- per Cum

N.B. The cost of transportation with a lead of 5 Kms- Rs.156.40/cum.

ABSTRACT		
SL NO.	ITEM	REMARKS
1	Loose Boulder Check Dam(LBCD) Constructed from the boulder procured from the quarry	Rs. 550/Cum
2	In- situ collected, broken and utilized for construction of LBCD	Rs 535/Cum
3*	Cost of transportation within a lead of 5 Kms	Rs. 156.40/ Cum

* Rate will be proportionately enhanced for lead more than 5 km in specific cases.

[Handwritten Signature]

Annexure-II

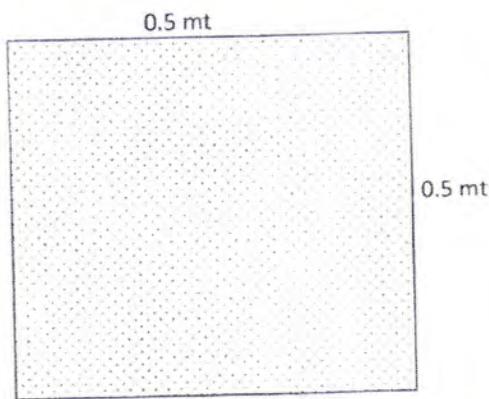
Staggered Contour Trench (2.5 mt x 0.5 mt x 0.5 mt)

Specifications:

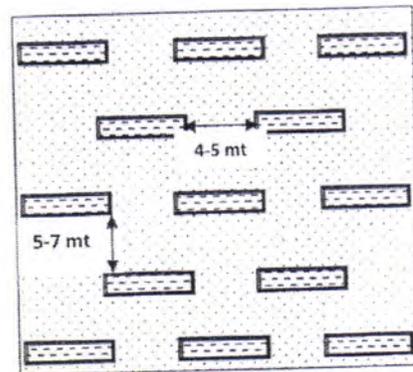
Length	-	2.5 mt	
Width	-	0.5 mt	
Depth	-	0.5 mt	
Cross Section	-	(0.5 mt x 0.5 mt)	= 0.25 sq mt
Earth Work	-	(2.5 mt x 0.25 sq mt)	= 0.625 cum

	0-30° slope	Above 30° slope
Gap between Trenches (Horizontal)	4-5 mt	2-3 mt
Distance between contour lines (Vertical)	5-7 mt	3-4 mt
Cost of Staggered Trench per Ha	Rs 12,810 for 300 nos of ST	Rs 41,633.00 for 450 nos of ST

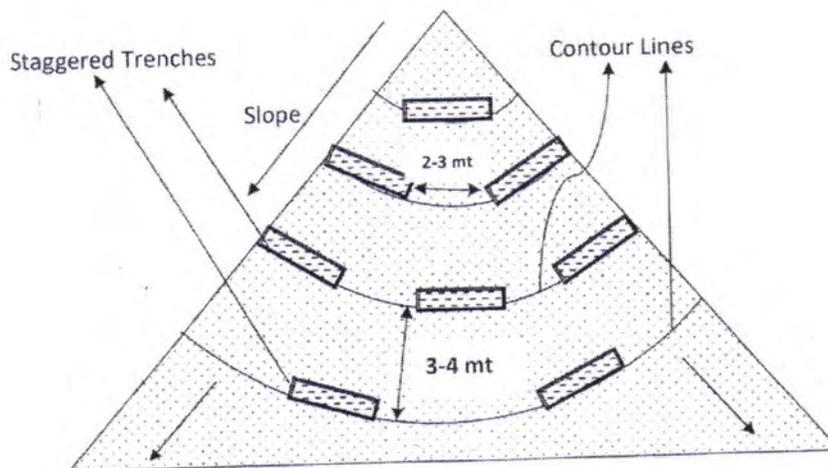
Cross Section of each staggered trench



Staggered Trenches Design in less than 30° slope



Staggered Trenches Design on more than 30° slope



Sharma

ESTIMATE OF COST FOR ONE KM BARBED WIRE FENCING

No of pillars required 500 nos.

Cost of 1 pillar : Rs. 568.00

Transportation charges : Rs. 244.00

Cost of base fixing : Rs. 244.00

Cost of fixing barbed wire @ 49.00 : Rs. 49.00

Total Cost for fixing 1 pillar : Rs. 1105.00

Cost for 500 pillars : Rs. 5,52, 500.00

Cost of barbed wire (1 Qntls.) @ 13,200.00

Cost barbed wire (5+2) strand

7500 mtrs or 15 Qntls. : Rs. 1,98, 000.00

Total cost for 1 Km. : Rs. 7,50, 500.00

Total cost for fencing over 4.25 Kms : Rs. 3189625.00

Maintenance 5% - Rs.159481.25/- per annum

For 10 years : Rs. 1594812.50

Provision of Gate 3 nos. @ Rs.9,600/- per gate : Rs. 28800.00

Total barbed wire fencing over 4.25 Kms. : Rs. 4813237.50

DEGRADED FOREST LAND OVER 22.122 He IDENTIFIED IN LAXMIPDSI RF UNDER CHAMPVA RANGE FOR 1.5 TIMES SAFETY ZONE IN RESPECT OF BOLANI ORES MINES 6.9 sq MILE ML 1 OF M/S SAIL .

Laxmi PDSI - RF



Load Polygon
 Select Polygon
 Decision Rule 1
 Get LandForest Cover
 MIS Application
 Get Time Series
 Get Result Table
 FCM Result
 FTM Result
 BR Result
 LI Result
 DSS Result
 FCM Without Grid Result
 FTM Without Grid Result
 Save Result Table

FOREST COVER MAP
 FCM LEGEND
 VERY DENSE FOREST
 MODERATELY DENSE FOI
 OPEN FOREST
 SCRUB
 NON FOREST



Forest Cover Map

FCM Without Grid Result	OPEN FOREST	WATER
NON FOREST	0.01	0.00
NON FOREST	0.07	

All results are in Square Kilometer.

Beta Version
 Welcome DFO Keonjhar
 Change Password
 Logout
 Help



ಕರ್ನಾಟಕ ಸರ್ಕಾರ
KARNATAKA GOVT



GIS based Decision Support System



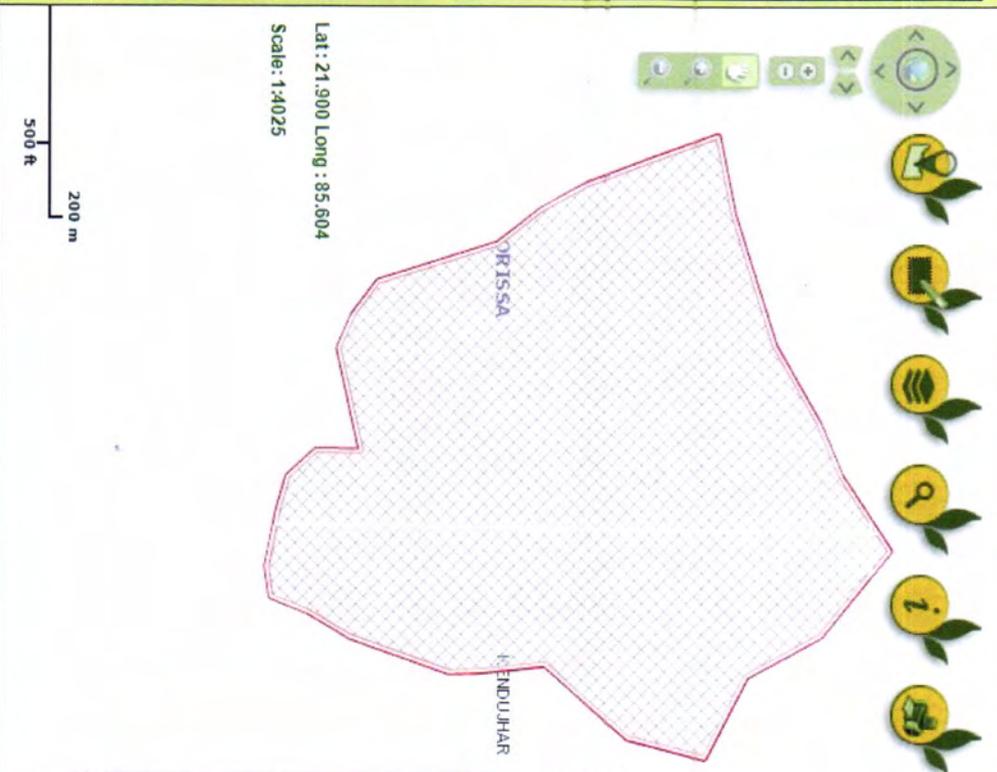
- Load Polygon
- Select Polygon
- Decision Rule 1
- Get Land/Forest Cover
- MIS Application
- Get Time Series
- Get Result Table

- FCM Result
- FTM Result
- BR Result
- LI Result
- DSS Result
- FCM Without Grid Result
- FTM Without Grid Result
- Save Result Table

FOREST COVER MAP

FCM LEGEND

- VERY DENSE FOREST
- MODERATELY DENSE FOI
- OPEN FOREST
- SCRUB
- NON FOREST



Beta Version
Welcome DFO Keonjhar

- Change Password
- Logout
- Help

Forest Cover Map

FCM Without Grid Result

NON FOREST

0.10

All results are in Square Kilometer.



Annexure-XII



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
रा. वैदीयलम विविजन
RAW MATERIALS DIVISION

RMD/92-958/

29th May, 2010

The Asstt. General Manager
Corporation Bank
CGO Complex
Lodi Road
New Delhi

SUB: PAYMENT OF NPV IN RESPECT OF FOREST LAND OF ML 6.9 SQ. MILES IN VILLAGE BOLANI IRON ORE MINE OF STEEL AUTHORITY OF INDIA LIMITED, IN KEONJHAR DIST. OF ORISSA.

Sir,

Please find enclosed herewith, a Cheque, No. 597662 dtd. 29th May, 2010 drawn in favour of CAMPA A/c. 1585 for an amount of Rs. 29,14,78,120/- (Rupees twenty nine crore fourteen lac sevbnety eight thousand one hundred twenty only) towards payment of NET PRESENT VALUE (NPV) for forest land of 465.62 ha. in 6.90 Sq. Miles lease of Bolani Iron Ore Mine, village Bolani, distt. Keonjhar, Orissa vide letter No. 3767, dtd. 04.05.2010 of DFO, Keonjhar Division, Govt. of Orissa, Ministry of Forest and Environment Department.

You are requested to acknowledge the receipt of the cheque.

Thanking you,

Yours faithfully,



R Darbari
(R DARBARI)
Asst. General Manager (I.)

Encl:- A/a.



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
रॉ मैटीरियलस डिविजन
RAW MATERIALS DIVISION

RMD/92-957/1344

03rd July, 2010

The Asstt. General Manager
Corporation Bank
CGO Complex
Lodi Road
New Delhi-110003

**SUB: PAYMENT OF BALANCE NPV IN RESPECT OF FOREST LAND OF
ML-6.90 SQ. MILES OF STEEL AUTHORITY OF INDIA LIMITED,
IN VILLAGE BOLANI, DIST. KENDUJHAR OF ORISSA.**

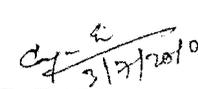
Sir,

Please find enclosed herewith, a Cheque, No. 597673 dtd. 03rd July, 2010 drawn in favour of **CAMPA A/c. 1585** for an amount of Rs. 7,80,04,080/- (Rupees seven crore, eighty lac, four thousand, and eighty only) towards payment of balance **NET PRESENT VALUE (NPV)** for the entire forest land 506.14 ha. included in the Mining Lease-6.90 Sq. Miles, Bolani Iron Ore Mines, village Bolani, distt. Keonjhar, Orissa vide letter No. 175/Mining, dtd. 05.06.2010 of Divisional Forest Officer, Kendujhar Division, Orissa.

You are requested to acknowledge the receipt of the cheque.

Thanking you,

Yours faithfully,


(R DARBARI)
Asst. General Manager (L)

Encl:- A/a.

Annexure-XIII

BY SPEED POST

No. J-11015/396/2008-IA.II(M)
 Government of India
 Ministry of Environment & Forests

534, Paryavaran Bhavan,
 C.G.O. Complex, Lodi Road,
 New Delhi-110 003.

Dated 21st December, 2012

To

M/s Steel Authority of India Ltd.
 20th Floor, Scope Minar
 Laxmi Nagar, Ditt. Centre
 Delhi - 110092

Subject: Bolani Iron Ore Mine of M/s SAIL located at village Bolani, Tehsil Barbil, District Keonjhar, Odisha – (6.9 Sq. mile)- environmental clearance – regarding.

Sir,

This has reference to your letter No. RMD/K/E&L/11/265 dated 14.12.2011 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 5.2.2008 for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification. The proposal is for environment clearance for production of 15,000 TPA of manganese ore (ROM). The mine is reported to be closed since 1978.

2. The mine is located between latitudes 22⁰⁰5'N & 22⁰⁰7'N and longitudes 85⁰⁰19' & 85⁰⁰23'E. Interstate boundary between Jharkhand and Orissa also lies on Western side at a distance of 1.5 km. The mine lease area is 1786.74 ha, which includes 706.52 ha of forestland. Stage-I forestry clearance was obtained on 24th February, 1999 for diversion of 706.52 ha of forestland. Mine working will be opencast semi-mechanised involving drilling and blasting. The mine working will not intersect with the ground water table. The peak water requirement is estimated as 48 kld, which will be obtained from Karo nadi and Jhikaria and Chapua nallahs. No groundwater will be withdrawn. Mining plan has been approved by IBM vide dated 06-08-2010.

3. It was observed that high levels of RSPM were there in the area due to bad road conditions in and around the mine lease. The proponent has undertaken repair of various identified stretches as also sprinkling of water on the public roads. The baseline AAQ data collected during March - April, 2012 compared with the data collected during winter season of 2008-09, although showed improvement in terms of RSPM levels.

4. No National park / Wildlife sanctuary / Biosphere reserve / Tiger reserve / Elephant reserve, etc., are reported to be located in the core and buffer zone of within 10 km of the

periphery of the project site. However, Karo Karampada Elephant Corridor is reported at a distance of 8 km from the mine lease. The information of flora fauna was presented, which reported observation of leopard, sloth bear, elephant, barking deer etc.

5. It is estimated that 0.89 million m³ of waste will be generated, which will be stored temporarily for two years and thereafter it will be backfilled. A tailing pond in an area of about 125 ha will be created till the end of the mine for use by the adjoining Bolani 5.1 sq.mile mine. An area of 289.83 will be covered under plantation. It has been reported that there is no population in the core zone, therefore, displacement of population and R&R has not been envisaged.

6. Public hearing has been held on 24.10.2011. The issues raised during public hearing were also considered and discussed during the meeting which inter-alia included drinking water supply, construction and improvement of road, provision of electricity, employment, health and hygiene etc. It was reported that there is no court case pending against the project. An amount of Rs. 170 lakhs has been earmarked for drinking water supply and an amount of Rs. 150 lakhs has been earmarked for construction of bridge over Karo river at Pacheri and Rs. 5 lakhs for the repairing of another bridge. Rs. 10 lakhs per annum for dispensary and school bus facility along with Rs. 2 lakhs as financial aid to the school.

7. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and hereby accords environmental clearance under the provisions thereof to the above mentioned Bolani Iron Ore Mine of M/s SAIL located at village Bolani, Tehsil Barbil, District Keonjhar, Odisha - (6.9 Sq. mile)- subject to implementation of the following conditions and environmental safeguards.

A. Specific Conditions

- (i) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as applicable.
- (ii) The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.
- (iii) Mitigation measures to control RSPM levels shall continue to be implemented and air quality data will also be collected during operation of the mines. The data so collected shall be analysed to see the effectiveness of the mitigation measures implemented. Based on the same, additional safeguard measures, as may be required shall be implemented in the project.
- (iv) The biological survey shall be repeated during October - December and mid May month to see the existence of wildlife corridors, if any. Based on the same, necessary Wildlife Conservation Plan as may be required shall be prepared and implemented in consultation with the State Forest and Wildlife Department.

- (v) The biological survey shall also be undertaken to identify the trees with orchids, if any. Such trees, so identified shall be protected and if need be, these trees may be relocated.
- (vi) The over burden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and should not be kept active for long period. 1.775 million m³ of waste will be generated during the conceptual period, which will be partly backfilled (74%). In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.
- (vii) Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working, soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after monsoon and maintained properly.

Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and OB dump and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.

- (viii) Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.
- (ix) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant, sloth bear etc. spotted in the study area. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to this project site and approved by the Chief Conservator of Forests (Wildlife) shall be effectively implemented. A copy of Wildlife Conservation Plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.
- (x) The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically . Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.
- (iii) The project proponent shall obtain Consent to Establish and Consent to Operate from the State Pollution Control Board, Orissa and effectively implement all the conditions stipulated therein.
- (iv) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.
- (v) The project proponent shall practice suitable rainwater harvesting measures on long term basis and work out a detailed scheme for rainwater harvesting in consultation with the Central Groundwater Authority and submit a copy of the same to the Ministry of Environment and Forests and its Regional Office, Bhubneswar.
- (vi) Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.
- (vii) No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented. Drills shall either be operated with the dust extractors or equipped with water injection system.
- (viii) Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- (ix) Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.
- (x) Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
- (xi) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile

- STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (xii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.
- (xiii) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water, if any, required for the project.
- (xiv) The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia provide for (i) Standard operating process / process to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions, (ii) Hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions and (iii) System of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders.
- (xv) Atleast four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- (xvi) Data on ambient air quality [(RSPM(Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x] should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board once in six months.
- (xvii) The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- (xviii) Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
- (xix) Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E)

dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.

- (xx) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (xxi) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.
- (xxii) The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xxiii) The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- (xxiv) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.
- (xxv) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxvi) The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.
- (xxvii) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubneswar by e-mail.

(xxviii) The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.

8. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

9. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

10. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made thereunder and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Orissa and any other Court of Law relating to the subject matter.

11. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


(Dr. Saroj)
Director

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Environment, Government of Orissa, Secretariat, Bhubaneswar.
- (iii) The Secretary, Department of Mines and Geology, Government of Orissa, Secretariat, Bhubaneswar.
- (iv) The Secretary, Department of Forests, Government of Orissa, Secretariat, Bhubaneswar.
- (v) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
- (vi) The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests, A-3 Chandrashekharpur, Bhubaneswar-751023.
- (vii) The Chairman, Orissa State Pollution Control Board, Parivesh Bhawan, A/118 Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
- (viii) The Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (ix) The District Collector, District Keonjhar, Government of Orissa.

Annexure-XIV

Annexure-XV

6F
5/1/18
3/2/18

206



FORM NO.II
(for projects other than linear projects)
Government of Odisha
Office of the District Collector, Keonjhar

No. 193

Dt. 31-01-2018

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MoEF), Government of India's letter No.11-9/98-FC(Pt) dt.3rd August, 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers(Recognition of Forest Rights Act), 2006 ('FRA' for short) on the forest land proposed to be diverted for non-forest purposes, it is certified that **238.093** hectares of forest land proposed to be diverted in favour of **Steel Authority of India Ltd.(SAIL)** for the purpose of mining activities in Bolani Ore Mines in Keonjhar District falls within jurisdiction of Bolani, Balagoda and Nimgur villages under Barbil Tahasil.

It is further certified that

- (a) the complete process of identification and settlement of rights under the FRA has been carried out for the entire **238.093** hectares of forest land proposed for diversion. A copy of records of all consultations and meetings of the Forest Rights Committee(s), Gram Sabha(s), Sub-Division Level Committee(s) and the District level Committee are enclosed as annexure- 1 to annexure- 31
- (b) the proposal for such diversion (with full details of the project and its implications, in vernacular/local language) have been placed before each concerned Gram Sabha(s) of forest dwellers who are eligible under the FRA.
- (c) the each of concerned Gram Sabha(s), has certified that all formalities/processes under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and the details of proposed diversion. Copy of Gram Sabha Resolution of village- Balagoda, Nimgur and Bolani is enclosed as annexure- 15, 23 and 28
- (d) the discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabha present.
- (e) No such facilities managed by Government requiring diversion of forest land u/s 3(2) of the Forest Rights Act, 2006 exist over the forest land proposed for diversion.
- (f) the rights of Primitive Tribal Groups and Pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA.

“ These certificates are issued subject to decision of Hon'ble High court in WP(C) No.22720 of 2016 “

(Signature)
(Ashish Thakre)
Collector, Keonjhar

Memo No. 194 .Rev.Dt. 31.01.2018
Copy of the certificate along with its enclosure (Annexure - 1 to Annexure 31)
forwarded to the D.F.O., Keonjhar Division, Keonjhar for information and necessary action.

(Signature)
31.01.18
Addl. District Magistrate,
Keonjhar

Annexure-XVI(A)

Scheme

OF

**GAP PLANTATION, SOIL & MOISTURE CONSERVATION TO
RESTOCK AND REJUVANATE DEGRADED FOREST WITHIN 100M IN
OUTER PERIMETER OF MINING LEASE
OF 6.90 SQ MILES ML OF M/S SAIL - BOLANI ORES MINES**

in compliance to

**Condition no – XXIII of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi**

for

**Diversion of 124.313 Hects of Sabik Kisam Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District**



ELEMENTS OF THE SCHEME

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CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, TahasilofKeonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL .

The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on.29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF& CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease.

The 6.90 Sq Miles ML of Bolani Ores Mines of M/s SAIL, applied during 2nd RML over 1586.36 ha, involves 339.210 ha of Karo RF, 146.009 ha of Revenue Forest, 238.093 ha of Non-forest land recorded as forest as on 25.10.1980. The total Non-Forest land involved in the mining lease is 463.029 ha as per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha, the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha ..

In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF& CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML

Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980 , 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabikkisam forest land out of total 723.312 ha forest land (485.219 ha + 238.093 ha) located inside aforesaid ML area .

While granting the In-principle approval, MoEF&CC,GOI has stipulated the following condition in Condition no- (xxiii), the following has been stipulated :

“User agency either himself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 m. from outer perimeter of the mining lease. The plan for plantation and SMC activities will be prepared and submitted to MoEF&CC before Stage-II Clearance....”

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017 of DFO Keonjhar, preparation of the scheme Fencing, protection and regeneration of the safety zone area has been undertaken in consultation with the State Forest Department, for implementation at the project cost .

CHAPTER- II

PHYSIOGRAPHY ,GEOLOGICAL FORMATION& VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude 22°5'12"N to 22°7'42"N and longitude 85° 19'04" E to 85° 23'08"E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic JodaBarbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale, quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e.haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid& Blue dust are the major form of ore located in this physiographic zone.Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade.

There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease .

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q.III occurs on the hill slopes of moderate gradient. Q.IV sal mainly confined in the ridges. Q.I sal is completely absent. The principal associates of sal includes Terminalia alata, Lagerstroemia perviflora, Anogeissus latifolia, Terminalia belerica, Syzygium cumini, Mangifera indica, Schleicheria oleosa, Adina cordifolia, Pterocarpus marsupium, Bombax ceiba, Bridelia retusa, Madhuca indica. The middle story is represented by Syzygium cumini, Ougeinia ougenensis, Careya arborea, Trema orientalis, Emblica officinalis, Cassia fistula etc. The shrubs and undergrowth are characterized by Indigofera pulchella, Ardisia solanacea, Flemingia strobilifera, Helicteres sora and Clerodendron viscosum etc. The prevailing climbers include Bauhinia vahlii, Combretum decandrum and Beutia parviflora. The grasses over the forest floor include Chrysopogon aciculatus, Imperata cylindrica, Dicanthium carricosum, Cynodon dactylon etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowseable and xerophytic in habit.

CHAPTER- III

SITE SELECTION & OBJECTIVE OF THE SCHEME

SITE SELECTION

Area earmarked over 100 meter strip covering degraded forest land and non forest govt land along the outer periphery of lease boundary was identified for Gap plantation and SMC works , which has been included in the scheme. The land within the 100m from boundary of the ML area (6.90 sq miles ML), is having crown density <0.4 and is degraded in nature . Afforestation in ANR model with gap plantation will be taken up over the area over this land. The earmarked area has been shown on the map submitted along with the scheme . The present scheme aims at preparation of site specific afforestation scheme over above 15.0 ha degraded forest land in ANR Plantation mode (@600 saplings / Ha) with adequate soil and Moisture conservation .

OBJECTIVE OF THE SCHEME:

The main objective of the present scheme is to fulfil the condition XXIII stipulated in the grant order of stage-I, vide Letter No. 8-87/1996(Vol.I) Dt.12.09.2017 of Govt. of India, Ministry of Environment & Forests, New Delhi and accordingly afforest the selected degraded open forest lands within 100m from outer perimeter 6.90 sq miles ML area of Bolani Iron Ore Mines to restock these degraded forest crop by taking up tending operation of the existing forest crop and supplementing with ANR plantation at the rate of 600 plants per hectare in blank, in consultation with State Forest Department. However at places where the natural regeneration of promising species of forest crops are available, they shall be nourished to also form the future crop of the area. It further seeks to incorporate suitable soil conservation measures with the afforestation works, so as to conserve soil and water for enrichment of the eco-system. The scheme will be implemented in phased manner during the 2nd renewal period. As the user agency has no control over the areas beyond ML boundary, the User Agency shall be responsible for placement of the required funds with State Forest Department, for implementation as per approved scheme.

CHAPTER- IV

DETAILS OF WORK SCHEDULE PROPOSED FOR AFFORESTATION.

A. PLANTING PLAN

Planting Plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be undertaken as per the plan. The SMC works will be undertaken over the different patches shown in the map and planting plan. This plan will be followed when actual planting is carried out.

Native Species to be planted:

1. *Dalbergiasissoo*(Sissoo)
2. *Azadirachtaindica*(Neem)
3. *Gmelinaarborea* (Gambhari)
4. *Terminaliabelerica*(Bahada)
5. *Terminaliachebula*(Harida)
6. *Pongamiapinnata* (Karanja)
7. *Emblicaofficinalis* (Ainala)
8. *Madhucaindica*(Mahul)
9. *Mangiferaindica* (Amba)
10. *Artocarpusheterophylla* (Panash)
11. In the peripheral areas of the site (susceptible to grazing) may be planted with non-browsable species like *Tectonagrandis* (teak), *Acasia*, *Alstoniascholaris* (Chhatian), *Simarubaglauca*, *Anonnasquamosa* (Sitaphal), etc. . Planting operation is to be done as per Odisha Forest Plantation Manual-1977 & the guideline & norms of forest & Environment Department.

12. The non native species to be included are Acacia mangium ,Simaroubaglauca on some selected sites only.

B.PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @ 660 seedlings per ha including seedlings for 10% causality replacement.

B(II)-SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING

The planting area will be surveyed and demarcated with GPS coordinates of respective pillar no as per the GPS map along with the field notes before undertaking plantation .

B(III) SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS.

The clearing of the site involving removal of invasive weeds; bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 30 x 30 x 30 cm. will be dug @600 per ha. in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION

D(1)-CASUALTY REPLACEMENT

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over.

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the stumps is complete or after the seedlings have started throwing up new buds.

D(3)-MANURING AND INSECTICIDE APPLICATION

On degraded sites urban compost or farmyard manure, wherever available, will be added to the soil while refilling the pits. As regards artificial fertilizers, the minerals required and

dosage @ 50 grammas of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-PROTECTION AGAINST FIRE AND GRAZING

Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved cost norm for protecting the plantation from grazing with involvement of VSS of nearby villages.

D(5)-SOIL MOISTURE CONSERVATION MEASURES

Soil and moisture conservation activities are to be taken up and dovetailed to plantation/afforestation activities in order to retain the soil and conserve maximum precipitation on forest floor to improve water availability in Forests. It is to be practised as a core forestry activity independent of other forestry interventions. In order to achieve the objective and implement the programme efficiently, a wellplanned strategy is indispensable.

The objective of the Soil and Moisture Conservation works proposed here is :

- I. To counteract soil erosion by reducing water flow velocity
- II. To achieve soil moisture/water balance and to increase groundwater recharge to prevent drying out due to water shortage in drought period ..
- III. To provide sufficient storage by erecting runoff Bunds along field boundaries without reference to contour, as the area is a low rainfall area .

The strategy adopted for Soil and Moisture conservation measures in the scheme is enumerated below :

- (i) Loose Boulder Check dams (LBCD)
- (ii) Staggerd Trenches and percolation pits

Loose Boulder Check dams (LBCD) :As per the condition of identified site, Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' as drainage line treatment . This structure is to be created across the drainage line for retention of runoff and reduction of velocity. Such structures should preferably have top width of one meter with upstream slope of 1:1 and downstream slope of 1:5 . On either side of the LBCD, trenches of prescribed dimension should be created to allow the vertically running water to spread on either side at the obstruction point which will reduce the velocity effectively. Such structures will also capture more rainwater and enhance infiltration.

StaggerdContur Trenches (SCT):

The prime objective of any soil and moisture conservation work is to retain run off water flowing down the slope. Enhancement of infiltration is the ultimate objective of any SMC scheme which facilitates recharging of ground aquifer. Restriction of sub-surface flow makes water available to the vegetation within root zone. Treatment of forest floor and drainage line with suitable interventions helps in retention of rain water and depending on the nature of soil profiles allows variable quantities of water to infiltrate. The staggered trenches are primarily aimed to break the runoff and not to let the fertile soil particles lost by water.

CHAPTER- V

COST STRUCTURE OF PLANTATION & SMC WORKS

A. COST STRUCTURE OF PLANTATION : ESTIMATE OF COST FOR 1.00 HA. UNDER ANR PLANTATION MODEL COST NORM FOR ANR PLANTATION @ 600 PLANTS PER HECTARE, WAGE RATE Rs. 213.50 /- PER DAY

Sl. No.	Item of work	Preferable period of execution	Person days	Labour (Rs.)	Material (Rs.)	Total
0th year (Advance work) Pre-planting operation						
1	Survey, Demarcation & pillar posting, GPS Reading with mapping	Nov-Dec	2	427	0	427
2	Site preparation.	Nov-Dec	2	427	0	427
3	Silvicultural Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots etc	Jan-Feb	5	1067.5	0	1067.5
4	Nursery cost (6 months old seedling) part @Rs.9.45/- seedling (Rs.6.67 in 0 th year + Rs.2.78 in 1 st year) for 660 seedlings. (600+60)	Jan-March	16.5	3522.75	1102	4624.75
5	Contingency and Unforeseen Expenditures		0	0	198	198
	Sub-Total		25.5	5444.25	1300	6744.25
1ST YEAR OPERATION						
1	Nursery cost (6 months old seedling) balance @Rs.2.78 for 660 seedling	Apr-Jul	8	1708	235	1943
2	Pitting 30 cm cube size	Feb/Mar	18	3843	0	3843
3	Carriage and planting including casualty replacement	Jul/Aug	15	3202.5	0	3202.5
4	Complete weeding, Soil working, Manuring	Aug/Sep	18	3843	0	3843
5	Cost of Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 and Granular Insecticide 5 gms/ plant @Rs.80/- per Kg= Rs.240.00	Aug/Sep	0	0	2640	2640
6	Cost of Chemical fertilizer (a) Urea 70 gms/ plant in two subsequent doses @Rs.6/- per Kg= Rs.252.00 (b)NPK 50 gms/ plant @Rs.24/- per kg= Rs.720.00 as basal dose.		0	0	972	972
7	Silvicultural Operation involving clearance of weeds, cutting of climbers, singling of shoots etc.	Sep/ Oct	15	3202.5	0	3202.5
8	Soil Conservation Measures (Staggered trenches of dimension 2m X 0.5m X 0.5m @60 nos per ha) or its equivalent	Sep/ Oct	20	4270	0	4270
9	Fireline Tracing and Inspection path	Feb/ Mar	3	640.5	0	640.5
10	Watch & ward	Aug-Mar	7	1494.5	0	1494.5
11	Contingency and Unforeseen Expenditures		0	0	353	353
	Sub-Total		104	22204	4200	26404

2 ND YEAR OPERATION						
1	Casualty Replacement including cost of seedling, carriage and planting	Jul/ Aug	3	640.5	567	1207.5
2	Complete weeding and cultural operations	Sep/ Oct	6	1281	0	1281
3	Soil working and manuring	Sep/ Oct	6	1281	0	1281
4	Cost of Fertilizer and insecticide (a) Vermi compost @200gms/ plant @Rs.20/- per Kg= Rs.2400.00 (b) Granular Insecticides 5 gms/ plant for 60 plants 300 gms @Rs.80/- per Kg= Rs.24:00	Sep/ Oct	0	0	2424	2424
5	Soil Conservation Measures (Renovation of staggered trenches etc.)	Sep/ Oct	8	1708	0	1708
6	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
7	Watch & ward (whole year)	Apr/ Mar	7	1494.5	0	1494.5
8	Contingency and Unforeseen Expenditures		0	0	193	193
	Sub-Total		31	6618.5	3184	9802.5
3 RD YEAR OPERATION						
1	Complete weeding and cultural operations	Aug/ Sep	3	640.5	0	640.5
2	Soil working	Aug/ Sep	3	640.5	0	640.5
3	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
4	Watch & ward (whole year)	Apr-Mar	7	1494.5	0	1494.5
	Sub-Total		14	2989	0	2989
4 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
5 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
6 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
7 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
8 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
9 TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5

2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
10TH YEAR OPERATION						
1	Fireline Tracing and Inspection path	Feb/ Mar	1	213.5	0	213.5
2	Watch & ward and cultural operations	Apr-Mar	2	427	0	427
	Sub-Total		3	640.5	0	640.5
	Grand Total		195.5	41739.25	8684	50423.25

ABSTRACT

Year	Person days	Labour	Material (Rs)	Total (Rs)
0th Year	25.5	5444.25	1300	6744.25
1st Year	104	22204	4200	26404
2nd Year	31	6618.5	3184	9802.5
3rd Year	14	2989	0	2989
4th Year	3	640.5	0	640.5
5th Year	3	640.5	0	640.5
6th Year	3	640.5	0	640.5
7th Year	3	640.5	0	640.5
8th Year	3	640.5	0	640.5
9th Year	3	640.5	0	640.5
10th Year	3	640.5	0	640.5
Total	195.5	41739.25	8684	50423.25
Total Cost Norm per ha.				50423.25
Total Cost of plantation for 15.0 ha				7,56,348.75

B. ADDITIONAL COST PROPOSED FOR SMC WORKS

1	SMC measures- LBCD structure of dimension 10' x 10' x 5' @Rs. 6985.83/-(cost of Transportation within a lead of 5.0 km i.e. Rs. 1548.36+ cost of construction Rs.5437.47) per LBCD structure for 15nos LBCD structures	1,04,787.45
2	Staggered trenches(2.5mt x 0.5mt x 0.5 mt) @60MD per ha over15.0 ha @ Rs. 12810 per ha.	1,92,150.00
3	Additional incentive (3% of cumulative expenditure) for VSS/Fr./FG proposed for more than 80% survival and very good growth during 4 th year of maintenance as per recommendation of DFO and RCCF. @Rs. 1379/- per ha for 15.0 ha.	20,685.00
4	Additional EPA expenses if implemented through VSS at rate Rs.1200/- in 0 th Year, Rs.2400/- in 1 st Year, Rs.1800/- in 2 nd Year, Rs.600/- in 3 rd Year, Rs.600/- in 4 th Year, Rs.600/- in 5 th Year, Rs.600/- in 6 th year, Rs.600/- in 7 th year, Rs.600/- in 8 th year, Rs.600/- in 9 th year, Rs.600/- in 10 th year @ Rs. 10200/- per ha for 15.0 ha	1,53,000.00
	Total	4,70,622.45

CHAPTER- V

PROVISION OF FUNDS

TOTAL COST OF THE SCHEME FOR GAP PLANTATION, SOIL & MOISTURE CONSERVATION TO RESTOCK AND REJUVANATE DEGRADED FOREST

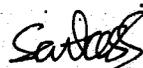
	Cost breakups	Value in Rs .
1.	Cost of Plantation over 15.0ha @ Rs.50,423.25/- per ha.	7,56,348.75
2.	Total additional cost for Soil and Moisture Conservation jobs	4,70,622.45
	Total	12,26,971.20
3.	Add 20% escalation	2,45,394.24
	Total	14,72,365.44 14,72,366.00/- (say)
(Rupees Fourteen lakhs seventy two thousand and three hundred sixty six only)		

The total cost of the implementation of the scheme will be Rs.14,72,365.44 (Rupees Fourteen lakhs seventy two thousand and three hundred sixty six only) as detailed above , which will be borne by user agency at their Project Cost .The User Agency shall be responsible for placement of the required funds to State Forest Department for implementation as per approved scheme. The cost of the scheme may subject to increase in amount considering the increase in materials and labour charges which will also be borne by the user agency .

Place : Bolani

Date :

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - 758 037 / सहायक खदान
SAI - RMD - Bolani, Odisha
बोली 758 037, केजहार, ओडिशा
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,
Office Seal
Divisional Forest Officer
Keonjhar Division

ANNEXURE – I

COST ESTIMATE OF SMC PROPOSALS

- (I) **Loose Boulder Check dams (LBCD)** Estimate of Loose Boulder Structure (LBCD), of size 10' x 10' x 5' (as per the guideline and revised cost norm No. 1044/10F (CAMPA) 54/2017 dated 13 th October, 2017 of Principal CCF &HoFF, Govt of Odisha .

Sl	Item	Quantity in cum	Rate Cost / per cum) in Rs	Cost per LBCD (Rs)
1	Requirement of Boulder procured from quarry (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum .	9.9	199.00	1970.00
2	Transportation of Boulder procured from quarry within a lead of 5.0 kms .	9.9	156.40	1548.36
3	Total required Labour	9.9	350.25	3467.47
4	Total Cost of erecting one 1 no LBCD	9.9	705.65	6985.83
5	Total Cost of erecting 15nos of LBCD estimated for the site			1,04,787.45

- (II) **Staggered Contour Trench (SCT)**

Sl	Item	Mandays	Rate per manday in Rs	Cost of ST perha (Rs)
1	Staggered contour trench of size 2.5m x 0.5m x 0.5m) at the rate of 300 ST / ha (1/2 x (10'+4')x 10' x 5') = 350 cft or 9.9 cum	60	213.50	12810.00
	Total Cost of SCT for 15.0ha estimated for the site			12810.00x15.0 ha = 1,92,150.00


S. KUMAR
 Deputy Manager (Civil)
 SAIL-RMD-BOM

Annexure-XVI(B)



e-PayOrder Details

e-PayOrder Number CNAAI ZEUP8
Debit Status Success

Date 18-Apr-2018

PAY ORRISA CAMPA

RUPEES (in words) Fourteen Lakhs Seventy Two Thousand Three
Hundred and Sixty Six only

Rs.14,72,366.00

ACCOUNT NO 00000011180766769

STATE BANK OF INDIA

BOLANI

DEBASHISH BEHERA
Maker

RAJEEV KUMAR
Authorizer 1

RABINDRA NATH OJHA
Authorizer 2

"CNAAI ZEUP8"

Counterfoil Description SAIL RMD BOM
Transaction Type NEFT Funds transfer
GSTIN Number --

Debit Account Details

Account No.	Branch	Amount
00000011180766769	BOLANI	14,72,366.00

Credit Account Details

Beneficiary Name/Account No.	Bank/Branch/IFSCCode	Amount	Credit Status	UTR No.
ORRISA CAMPA/150825820126424	NEW DELHI LODHI COMPLEX/NEW DELHI LODHI COMPLEX/CORP0000371	14,72,366.00	Credited to Beneficiary Account	SBIN218108278866

Annexure-XVII

Scheme
OF
DE-SILTING OF VILLAGE TANKS AND OTHER WATER BODIES
WITHIN FIVE KM FROM THE MINE LEASE BOUNDARY

in compliance to

Condition no – XXIV of Stage-I Forest Clearance grant Order
Vide Letter No.8-87/1996(Vol.I) Dt.12.09.2017
of Govt. of India, Ministry of Environment & Forests, New Delhi

for
Diversion of 124,313 Hects of Sabik Kism Forest land
within 6.90 sq Miles ML of
Bolani Mn & Iron Ores Mine of M/s SAIL,
in Champua Subdivision of Keonjhar District



CHAPTER- I.

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Bolani Ores Mines under Raw Materials Division of M/S Steel Authority of India Limited (SAIL), a PSU/Govt. of India Undertaking, is situated in villages Balagoda, Bolani and Limtur and Karo reserved Forests under Barbil, Tahasilof Keonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division. The erstwhile Bolani Ore Limited, which was a holding company jointly owned by Govt. of India & M/s OMDC was given the western 14.46 sq. mile part of the then Bird & Co. Pvt. Ltd.'s 25 sq. miles Mining Lease for supplying ore to the Durgapur Steel Plant. Bolani Ore Mines was granted the Certificate of approval in 1957, however for the sake of expediency the said 14.46 sq miles ML was divided into two : one in the valley having Manganese and Iron(float) deposit (6.90 Sq. Miles ML(1786.74 ha)) and the other (5.10 Sq. Miles ML, (1321.45 ha)) on the hill bearing the Iron ore bodies . In 1978, it was taken over by SAIL . The 6.90 sq miles ML of Bolani Ores Mines is a Mining Project for exploitation of Iron & Manganese Ore since 1962. Mining of Manganese Ore continued till 1980. On enactment of Forest Conservation Act 1980, mining had to be stopped in the quarries falling inside the forest lands. Due to poor yield & high Techno-economic factor, mining in quarries in non-forest lands was also suspended. In this manner, mining of Manganese ore in 6.9 sq. miles mining lease was discontinued since 1980's. Bolani Ores Mines is a single mining complex comprising of two mining leases . Infrastructural facilities were created under both the leases based on the convenience and suitability of land, since inception, which are in continuation till date. The installations on 6.90 sq miles ML are indispensable to despatch the iron ore produced from Bolani 5.1 sq. miles ML to meet the requirement of SAIL steel plants . The mining of iron ore is confined to 5.1 sq. miles mining lease and connecting infrastructure facilities like 600 TPH Crushing and screening Plant , Loading plant and railway siding , Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease. The mining lease, applied during 1st RML over 1786.74 ha and the 1st RML was granted vide proceedings no - 6040/SM on 29-05-1984. The first RML could not be executed due to non-availability of Stage-II Forest Clearance from MOEF, GOI . The 2nd RML application has been filed on 26.03.2002 over 1586.36 ha for a period of 20 years from 14.11.2002 to 13.11.2022, after reverting of 200.38 ha forest land in compliance to condition-v of Stage-I approval letter no F.No.8-87/96-FC dated 24.02.1999 of MOEF MoEF GOI. The 2nd RML application is under consideration of the Department of Steel & Mines, Govt. of Odisha pursuant to the

MMDR Amendment Act, 2015 and the provision of Rule 3(3) Mineral (Mining by Government Company) Rules, 2015 . In view recommendations of the State Govt, MoEF & CC, GoI has amended the Condition (i) & (ii) of the Stage-I approval of 24.02.1999 and compliance of the modified condition is in progress for grant of Stage-II Forest Clearance for the Revenue Forest and Karo Reserve Forest inside the Lease. As per the recent joint DGPS Survey undertaken by ORSAC and Team of Govt of Odisha , the total forest area under Revenue Forest and Karo Reserve Forest category comes to 485.219 ha . In compliance with the guideline F No. 8-78/1996-FC(pt.) dt.10.03.2015 read with F. No. 8-78/1996-FC(pt.) dt.09.03.2016 of MoEF & CC, Govt. of India, proposal for diversion of 238.093 Ha Non-Forest Land recorded as Forest as on/after 25th October 1980, located within the 2nd RML Mining Lease hold area over of 1586.36 ha was applied online vide No. Proposal No. FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. . The diversion proposal included proposal for approval of 124.313 Ha under section -2(ii) of FC Act 1980, 14.748 Ha safety zone and diversion of 99.032 Ha under section -2(iii) of FC Act, 1980 in pursuance of the General Approval of the Central Govt. accorded under the F.C. Act 1980, vide F.No.-11-599/2014-FC, dt. 01.04.2015 on realisation of NPV over the entire land recorded as forest involved in the mining lease .

The Central Government in Ministry of Environment , Forest and Climate Change, Govt. of India has granted In-principle approval (Stage-I Clearance) vide F.No.8-87/1996(Vol.I) Dt.12.09.2017 for diversion of 124.313 ha sabik kisam forest land out of total 723.312 ha forest land (485.219 ha .+ 238.093 ha) located inside aforesaid ML area. While granting the In-principle approval, MoEF &CC,GOI has stipulated the following condition in Condition no- (xxiv) :

" The User Agency shall prepare a list of existing village tanks and other water bodies with GPS co-ordinates located within five km. from the mine lease boundary. This list is to be duly verified by the concerned Divisional Forest Officer. The User Agency shall regularly undertake desilting of these village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/water bodies . A detailed plan for desilting of identified ponds and water bodies to be prepared in consultation with forest department . and shall be submitted to MoEF & CC before Stage-II approval ."

In compliance to the above condition and memo no 6499/ Mining Dt.20.10.2017, preparation of the scheme of de-silting of ponds and other water bodies has been

undertaken in consultation with the Forest Range Officer Barbil , for implementation of the scheme at the project cost .

CHAPTER- II

PHYSIOGRAPHY , GEOLOGICAL FORMATION & VEGETATION OF THE APPLIED AREA

Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, located within the latitude $22^{\circ} 05' 12''$ N to $22^{\circ} 07' 42''$ N and longitude $85^{\circ} 19' 04''$ E to $85^{\circ} 23' 08''$ E of Survey of India Topo sheet No. 73 F/8 , consists of Reserved forest(Karo RF) ,Revenue forest, Non-Forest land recorded as Forest as on 25.10.1980 and Non-Forest Land. This site falls under the physiographic- Joda Barbil plateau extending from Chamakpur to the boarder of Singhbhum of Jharkhand in north and boarder of Bonai in the west. This region is an extension southwards of Singhbhum rocks. This group of rocks comprising trap, tuffites, shale; quartzite, phyllite, banded haematite jasper and banded haematite quartzite form high hill ranges with narrow deep valley. This region is characterised by massive deposit of iron and manganese are associated with B.H.J. and shales. The iron ores precipitates are in the form of oxide, carbonates, silicates and sulphides. The most characteristics feature of the iron ore i.e haematite is it's availability in the form of massive beds, pockets and large lensoid soil bodies. Hard massive, Laminated, Lateritoid & Blue dust are the major form of ore located in this physiographic zone. Most characteristic feature of associated manganese ore is its occurrence in form of pocket, lenses in the shales of the iron ore group. It is also seen extensively as residual deposit. Manganese ore deposits are mostly confined to the Singhbhum-Bonai belt of Keonjhar district associated with BIF of Iron ore group. The ore minerals are chiefly pyrolusite and psilomelane. The important manganese deposits of the district are located at Roida, Sidhamatha, Bhadrasahi, Guruda, Joda, Harmath-Guali and Bamebari. The reserve of Manganese ore established so far is 29 million tons. Various grades of Manganese ore contains 25% manganese to dioxide grade. There is no excavation of ore at present inside the 6.90 sq miles Mining Lease . Connecting infrastructure facilities ensuing to mining of iron ore in the 5.1 sq. miles mining lease viz. 600 TPH Crushing and Screening Plant , Loading plant and railway siding, Tailing pond , OB and fines dumps, Water intake facility , township along with Manganese Quarries are located in 6.9 sq. miles mining lease.

EXISTING VEGETATION

The ruling forest growth including Karo Reserved Forest and adjoining Revenue Forest alongwith non-forest land recorded as forest is placed under the sub- group 3C/C2e(iii) Moist Peninsular Valley Sal and 5B/C2 Northern Dry Mixed Deciduous Forest under Champion and Seth Classification. The prevailing vegetation in Karo Reserved Forest includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of sal. Sal constitutes around 70 to 75% of the top canopy. The middle storey is un-conspicuous. The quality of Sal varies from all India Quality II to IV. Quality II sal is mainly confined to the valleys while Q III occurs on the hill slopes of moderate gradient. Q IV sal mainly confined in the ridges. Q I sal is completely absent. The principal associates of sal includes *Terminalia alata*, *Lagerstroemia perviflora*, *Anogeissus latifolia*, *Terminalia belerica*, *Syzygium cumini*, *Mangifera indica*, *Schleichera oleosa*, *Adina cordifolia*, *Pterocarpus marsupium*, *Bombax ceiba*, *Bridelia retusa*, *Madhuca indica*. The middle story is represented by *Syzygium cumini*, *Ougeinia ougenensis*, *Careya arborea*, *Treama orientalis*, *Emblica officinalis*, *Cassia fistula* etc. The shrubs and undergrowth are characterized by *Indigofera pulchella*, *Ardisia solenacea*, *Flemingia chhapar*, *Helicteres ixora* and *Clerodendron viscosum* etc. The prevailing climbers include *Bauhinia vahlii*, *Combretum decandrum* and *Beutia parviflora*. The grasses over the forest floor include *Chrysopogon aciculatus*, *Imperata cylindrica*, *Dicanthium cariccosum*, *Cynodon dactylon* etc. Regeneration of sal is profuse in part of Karo R.F. adjoining Saranda of Jharkhand. Part of the Karo Reserved Forest and adjoining Revenue Forest placed under the sub- group 5B/C2 Northern Dry Mixed Deciduous Forest is characterised by dry slopes and rugged ground where soil is poor and shallow. Tree canopy is seriously broken by human activities so that scattered trees and small groups are now typical. This broken top canopy is characterising the transition to still drier types having trees with low spreading crown. Shrubs and small trees occupy vast areas. The density varies from 0.2 to 0.4. The average density is about 0.3. The crop dominating these forest is thorny, unbrowsable and xerophytic in habit.

DRAINAGE

The lease area is drained by Karo river flowing from SW to NE, passing through the lease. The lease area is also drained by a number of seasonal drainage channels flowing from SW to NE viz. Chapua nalla, Jhikaria nalla, Panposh nalla, Balagoda nalla & Limture nalla to join the Karo River. The Karo river (flowing from SW to NE) is the principal drainage

channel of the study area. The study area has a dendritic drainage pattern due to undulatory terrain of adjacent lease and the area forms part of Karo nadi sub-basin which is perennial by nature. The sub water shed where the project falls is drained mainly by Karo river.

CHAPTER- III

FACTORS FOR SILTATION , SELECTION OF PONDS & METHODOLOGY

Earthy matter, fine sand, or the like carried by moving or running water or stagnant water and deposited as a sediment cause deposition of silts . De-silting, is removal of these silt (fine grained clay/ bed soil) from the bed of pond / water bodies to be done mechanically.

FACTORS FOR SILTATION

Siltation is an inherent problem with ponds/village tanks, and almost all types of water reservoirs world over. Siltation occurs due to deposition or settling of soil eroded from the upper slope areas , shore line, decaying fallen leaves, grass and other vegetative materials and decomposed organic materials settled on pond bottoms. Soil erosion may be attributed as the primary factor responsible for pond siltation in this area. Higher gradient and excess rainfall are the most common reasons of soil erosion. Erosion of Soil occurs from the waste dumps, excavated areas and naturally denuded ground surface. However, looking into the current problem of siltation of the village tanks/ponds, the major factor is the erosion of the pond embankments along with air borne dust and decomposition of in-situ aquatic weeds like water hyacinth and other air borne vegetative materials falling into the pond. Air borne sand and dust along with other vegetative materials falling on the pond also add to the process of siltation. As the age of the ponds increase, new layers of silt accumulate on the older ones and the silt layers become thicker. Finally the depth of the pond decreases and it loses its water storage capacity. At this time it needs to be desilted to recover. The best practice against siltation is to de-silt the pond bottom at regular intervals as well as taking adequate preventive measures.

SELECTION OF VILLAGE TANKS & OTHER WATER BODIES

Information was collected from the village panchayats of Balagoda and Bolani for the location of the village ponds also. For the purpose selecting de-silting of ponds, as per the condition, a GPS survey of the above ponds within the buffer area 5 Kms radius from the boundary of the 6.90 sq miles Mining Lease was made , in consultation with Forest Range Officer Barbil . The GPS readings were projected on to the digitized topo sheet no 73 F/8 with the help of GIS softwares and

locations were plotted on the map . As per the GPS survey , 6 nos of village ponds and 2 nos of strem beds within the 5 km radius from ML boundary have been selected undertaking the de-silting jobs. In the western portion of the ML, lease of the same lessee exists and in the north – west there is Jharkhand Boundary , hence not considered . The total combined area of the village tanks and other water bodies is about 12,641 sqm area, which is to be covered in the scheme. Total length of embankment of the ponds needs to be handled is 1.022 Kms. . De-silting of these village tanks/Water bodies will be considered in phases. The location of the village tanks and other water bodies are shown in the enclosed map . The map is enclosed in **Annexure -II** .

LOCATION OF VILLAGE TANKS & OTHER WATER BODIES CONSIDERED FOR DESILTING					
SI	Pond sl no	Village	Longitude	Latitude	Dimension
1	Pond-1	Dumurda	85°20'04.63"	22°04'37.09"	55m x 43 m
2	Pond-2	Shankhjar	85°20'51.89"	22°04'15.57"	50m x 35 m
3	Pond-3	Bhaliadih	85°19'54.65"	22°03'47.98"	80m x 38m
4	Pond-4	Bhaliadih	85°19'24.03"	22°03'41.92"	47m x 38m
5	Pond-5	Limtur	85°21'12.49"	22°07'39.63"	20m x 15m
6	Pond-6	Balagoda	85°20'03.11"	22°06'05.79"	50m x 40m
7	Streams	Bolani & Balagoda	85°19'45.69"	22° 5'11.57"	70 m x 20 m

METHODOLOGY

It is proposed to carry out the de-siltation of the identified ponds as above annually, preferably in the dry months of the summer when the ponds shall dry up exposing the silts. The dried silt shall be removed mechanically based on the ground condition. In case of mechanical removal of silts, small excavators such as back-hoe / small hydraulic shovels or pay loader, depending upon the quantity of silt accumulation shall be used. As silt accumulation occurs in the basal area of the tank/water bodies , the siltation area has been calculated considering 20% reduction in the arial area . It is proposed that the ponds and water bodies shall be de-silted by mechanical means by deploying back hoe excavator and tipper . The ponds shall be allowed to dry up completely during the early summer i.e. during March and April followed with desiltation in the above described manner. Activities like pond bank strengthening and stabilization by way of earth work, grass seeding shall be taken up in the first year of de-silting followed by their management in successive four years.

CHAPTER IV

PROVISION OF FUNDS

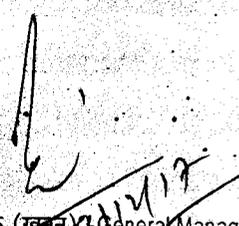
TOTAL COST OF THE SCHEME FOR DE-SILTING OF VILLAGE TANKS & WATER BODIES

SI	Item of Work	Cost (Rs)
1	Cost of de-silting of village tanks and other water bodies as per estimate enclosed at Annexure-I	47,38,071.63
2	Cost of sowing grass seeds on the de-silted material and nallah embankments/pond banks (Lump sum)	15,00,000.00
	TOTAL	62,38,071.63
	Escalation 20%	12,47,614.32
	Grand Total	74,85,685.96 or Say 74,85,686.00
	Seventy Four Lakhs Eighty Five thousand six hundred eighty six only	

The total cost of the implementation of the scheme will be **Rs. 74,85,686.00 (Seventy Four Lakhs Eighty Five thousand six hundred eighty six only)** as detailed above which will be borne by user agency at their Project Cost . The cost of the scheme may subject to increase in amount considering the change in location of ponds for compliance of conditions , increase in materials and labour charges which will also be borne by the user agency . The work shall be executed by the CSR wing of User Agency with outsourced man and machinery . The entire work shall be carried out through close co-ordination with the Forest Department .

Place : Bolani

Date :


महाप्रबंधक (खनन) General Manager (Mines)
सेल ऑफ ग्रान्टी एंड वॉटर डेवेलपमेंट्स खदान
SAIL-RMD-Bolani Ores Mines
Bolani Ores Mines
Bolani-758 037, Keonjhar, Odisha


Divisional Forest Officer
Keonjhar Forest Division,
Office Seal
Divisional Forest Officer,
Keonjhar Division

Certificate

Certified that the village tanks and water bodies included in the scheme for de-silting is duly verified by the undersigned.

Place: Keonjhar

Date:

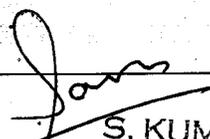
Sadas

Divisional Forest Officer,
Keonjhar Division

ESTIMATE FOR DE-SILTING

Annexure- I

SL. NO.	DSR ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (xceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed in all kinds of soil.	CUM	13341.00	130.80	1745002.80
2	1.1.2	Disposing of the excavated earth etc. by mechanical transport including loading unloading etc. all complete to a lead of 1 KM	CUM	5269.00	82.78	436167.82
3	4.1.8	Providing and laying in position cement concrete 1:4:8 (1Cement: 4 fine sand: 8 graded stone aggregate 40 mm nominal size) excluding the cost of centring and shuttering - All work upto plinth level	CUM	60.00	3593.30	215598.00
4	4.1.3	Providing and laying in position cement concrete 1:2:4 (1Cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) excluding the cost of centring and shuttering - All work upto plinth level.	CUM	7.20	4514.05	32501.16
5	7.1.1	Random Rubble Masonry with hard granite stone boulder in foundation and plinth upto superstructure with cement mortar 1:6 (1 cement: 6 coarse sand)	CUM	150.00	3059.20	458880.00
6	6.1.2	Brick work with F.P.S. bricks of class designation 75 in foundation 75 in foundation & plinth in cement mortar 1:6 (1 Cement : 6 Coarse sand).	CUM	60.00	3306.55	198393.00
7	11.3.1	Cement Concrete flooring 1:2:4 (1 Cemnt : 2 Coarse Sand : 4 Graded stone aggregate) 40MM Thick with 20MM nominal size stone aggregate finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.	SQM	288.00	280.05	80654.40
8	13.6.2	20 mm cement plaster with cement mortar 1:6 (1 cement : 6 coarse sand).	SQM	480.00	169.50	81360.00
9	13.18	Neat Cement punning.	SQM	144.00	31.10	4478.40
10	13.61.1	Painting with Synthetic enamel paint of approved brand and manufacture like Dulux / Shalimar / Johnson / Neorolac orequalant of required colour to give an even shade, two or more coats on new work..	SQM	420.00	53.85	22617.00
11	2.28.1	Surface dressing All kinds of soil of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5m :	SQM	17563.00	9.35	164214.05
12	15	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	L.S.	6.00	10000.00	60000.00
13	13.33.2	Pointing on stone work with cement mortar 1:3(1cement:3Fine cement) for flush/ ruled pointing	SQM	2300.00	201.85	464255.00
14	16.11	Dry stone pitching 22.5 CM thick with hard stone boulder including supply of stone with well packing & preparing surface complete	SQM	2300.00	336.50	773950.00
TOTAL VALUE OF DE-SILTING JOBS						Rs. 47,38,071.63


S. KUMAR
 Deputy Manager (Civil)
 SAIL BMD BOY

MEASUREMENT

VILL. POND - 1

DESILTING OF POND : Dumurta

Sl.No	Description of items	Unit	No	Length	Breadth	Heihtg	TOTAL
1	Earth work excavation ----- A. pond upper side	cum	1	55.00	43.00	1.00	2365.00
						total(cum)	2365.00
						say	2365.00
2	Disposing of excavated Earth A 25% of excavated earth	cum	0.25	X	2365.00		591.25
						total(Cum)	600.00
						say	600.00
3	providing & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
		"	2	8.00	4.00	0.10	6.40
	Bottom Platform	"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	providing & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ---- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
		"	2	8.00	0.40	0.65	4.16
	wall	cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruig in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	55.00		6.00	1320.00
	Embanken ment (Both side)	sqm	4	43.00		6.00	1032.00
	Top	"	1	196.00		4.50	882.00
						total(sqm)	3234.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

S. S. KUMAR
Deputy Manager (Civil)
SAL-POND-SON

MEASUREMENT

VILL. POND-2

DESILTING OF POND Shankhijhar

Sl.No	Description of items	Unit	No	Length	Breadth	Heihgt	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	50.00	35.00	1.00	1750.00
						total(cum)	1750.00
						say	1750.00
2	Disposing of excavated Earth A 25% of excavated earth	cum	0.25	X	1750.00		437.50
						total(Cum)	438.00
						say	438.00
3	priving & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
		"	2	8.00	4.00	0.10	6.40
	Bottom Platform	"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	priving & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
		"	2	8.00	0.40	0.65	4.16
	wall	cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	50.00		6.00	1200.00
	Embanken ment (Both side)	sqm	4	35.00		6.00	840.00
	Top	"	1	170.00		4.50	765.00
						total(sqm)	2805.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

S. KUMAR
Deputy Manager (Civil)
SAIL-RANDOLPH

MEASUREMENT

VILL. POND-3

DESILTING OF POND Bhaliadih

SL.NO	Description of items	Unit	No	Length	Breadth	Heiht	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	80.00	38.00	1.00	3040.00
						total(cum)	3040.00
						say	3040.00
2	Disposing of excavated Earth A 40% of excavated earth	cum	0.4	X	3040.00		1216.00
						total(Cum)	1216.00
						say	1216.00
3	providing & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
	Bottom Platform	"	2	8.00	4.00	0.10	6.40
		"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	providing & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
	wall	"	2	8.00	0.40	0.65	4.16
		cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	80.00		6.00	1920.00
	Embanken ment (Both side)	sqm	4	38.00		6.00	912.00
	Top	"	1	236.00		4.50	1062.00
						total(sqm)	3894.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

S. KUMAR
Deputy Manager (Civil)
SAL-RRD-001

MEASUREMENT

VILL. POND-4

DESILTING OF POND Bhaliadih

SL.NO	Description of items	Unit	No	Length	Breadth	Heihgt	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	47.00	38.00	1.00	1786.00
						total(cum)	1786.00
						say	1786.00
2	Disposing of excavated Earth A 25% of excavated earth	cum	0.25	X	1786.00		446.50
						total(Cum)	450.00
						say	450.00
3	privinging & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
		"	2	8.00	4.00	0.10	6.40
	Bottom Platform	"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	privinging & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
		"	2	8.00	0.40	0.65	4.16
	wall	cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	47.00		6.00	1128.00
	Embanken ment (Both side)	sqm	4	38.00		6.00	912.00
	Top	"	1	170.00		4.50	765.00
						total(sqm)	2805.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

Jain
S. KUMAR
District Engineer (Civil)
JALPAIGURI

MEASUREMENT

VILL. POND-5

DESILTING OF POND Limtur

SL.NO	Description of items	Unit	No	Length	Breadth	Heihtg	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	20.00	15.00	1.00	300.00
						total(cum)	300.00
						say	300.00
2	Disposing of excavated Earth A 25% of excavated earth	cum	0.25	X	300.00		75.00
						total(Cum)	75.00
						say	75.00
3	providing & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
		"	2	8.00	4.00	0.10	6.40
	Bottom Platform	"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	providing & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R .Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
		"	2	8.00	0.40	0.65	4.16
	wall	cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	20.00		6.00	480.00
	Embanken ment (Both side)	sqm	4	15.00		6.00	360.00
	Top	"	1	70.00		4.50	315.00
						total(sqm)	1155.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S			1.00

Jam
S. KUMAR
Deputy Manager (Civil)
SAIL-RIND-5044

MEASUREMENT

DESILTING OF POND BALAGODA

VILL. POND - 6

SL.NO	Description of items	Unit	No	Length	Breadth	Heihgt	TOTAL
1	Earth work excavation ----- A. pond size	cum	1	50.00	40.00	1.00	2000.00
						total(cum)	2000.00
						say	2000.00
2	Disposing of excavated Earth A 30% of excavated earth	cum	0.3	X	2000.00		600.00
						total(Cum)	600.00
						say	600.00
3	providing & laying P.C.C 1:4:8----- steps	cum	4	8.00	0.60	0.10	1.92
	Bottom Platform	"	2	8.00	4.00	0.10	6.40
		"	2	4.00	1.00	0.15	1.20
						total(cum)	9.52
						say	10.00
4	providing & laying P.C.C 1:2:4 ----- top of step side wall	cum	4	8.00	0.50	0.05	0.80
	Bottom Platform	"	2	4.00	1.00	0.05	0.40
						say	1.20
5	R.R. Masonry in C.M (1:6) With hard stone boulder ----- step side wall(Foundation)	cum	4	8.00	0.50	0.65	10.40
	wall	"	2	8.00	0.40	0.65	4.16
		cum	4	8.00	0.40	0.80	10.24
						total(cum)	24.80
						say	25.00
6	Brick work in foundation & plinth Step	cum	30	4.00	0.40	0.20	9.60
						Say	10.00
6	40mmthk A.S. Flooruing in C.C .1:2:4----- Steps	sqm	30	4.00	0.40		48.00
						say	48.00
7	20MMThk in C.M (1:6)----- Wall	sqm	8	8.00		0.80	51.20
	step riser	"	30	4.00		0.20	24.00
						total(sqm)	75.20
						say	80.00
8	Neat cement punning ----- Step riser	"	30	4.00		0.20	24.00
						say	24.00
9	synthetic enamel painting ----- Wall side wall	sqm	8	8.00		0.80	51.20
	Wall side wall	"	4	8.00		0.40	12.80
						total(sqm)	64.00
						say	70.00
10	Area dressing and levelling ----- Embanken ment (Both side)	sqm	4	50.00		6.00	1200.00
	Embanken ment (Both side)	sqm	4	40.00		6.00	960.00
	Top	"	1	180.00		4.50	810.00
						total(sqm)	2970.00
11	Pumping out the water from the pond including hiring charges of diesel pump set including transportin charges etc. complete as per direction of EIC.	Each	1.00	L.S.			1.00

S. KUMAR
Deputy Manager (Civil)
SAIL-RIND-SOM

MEASUREMENT

W.B-T (JHIKARIA
STREAM)

DESILTING OF STREAM BED

Sl.NO	Description of items	Unit	No	Length	Breadth	Height	TOTAL
1	Earth work excavation ----- A. STREAM BED size	cum	1	70.00	20.00	1.50	2100.00
						total(cum)	2100.00
						say	2100.00
2	Disposing of excavated Earth 90% of excavated earth	cum	0.9	X	2100.00		1890.00
						total(Cum)	1890.00
						say	1890.00
3	Area dressing and levelling -----	sqm	2	70.00	5.00		700.00
						total(sqm)	700.00


S. KUMAR
Deputy Manager (Civil)
SAIL-RMD-301A

Annexure-XVIII

PROCEEDING OF THE
DISTRICT LEVEL COMMITTEE MEETING
ON FOREST RIGHTS
HELD ON 07.04.2016 AT 10 AM IN THE
MINI CONFERENCE HALL OF COLLECTORATE
KEONJHAR

**PROCEEDING OF THE DISTRICT LEVEL FOREST RIGHTS COMMITTEE
MEETING HELD ON 07.04.2016 AT 10.00 A.M. IN MINI CONFERENCE HALL
OF THE COLLECTORATE, KEONJHAR**

District Level Forest Rights Committee meeting was held on 07.04.2016 at 10 AM in the Mini conference Hall of Collectorate, Keonjhar under the Chairmanship of Collector, Keonjhar. The list of members/participants present in the meeting is attached in Annexure (I).

The Agenda wise discussion made as follows:-

1. CONFIRMATION OF PROCEEDING OF THE LAST D.L.C. MEETING HELD ON 8.10.15.

The proceedings of the last D.L.C. meeting held on 08.10.2015 was circulated among all the members vide Memo No. No. 2923 /ITDA(K) FRC/dtd. 28.10.2015. As no objection received from any quarter, the said proceeding is confirmed.

2. DISPOSAL OF PENDING IFR CLAIMS

The PA, ITDA, apprised the house that 2237 nos. of Individual Forest Rights claims are received from different blocks duly approved by the SDLC. The details block wise claims are given below for approval.

Sl. No	Name of the Block	Pending claims as reported by WEOs	Claims received
01	JDA,Gonasika	0	-
02	Telkoi	791	573
03	Saharpada	2043	86
04	Patna	4605	182
05	Keonjhar	211	72
06	Ghatgaon	6138	597
07	Harichandanpur	5824	287
08	Banspal	3800	259
09	Hatadihi	750	-
10	Anandpur	2341	-
11	Ghasipura	2037	67
12	Joda	674	15
13	Jhumpura	610	17
14	Champua	645	82
	Total	30469	2237

The Chairman has expressed his displeasure for slow progress in disposal of pending cases. The Nodal Officer, FRA has informed in the house that the Govt. in their letter No.5893/SSD Dt.26.3.16 have instructed that all the eligible pending claims shall be examined and approved at the Gram Sabha / SDLC & DLC level by 15th April,2016.


Project Administrator
I.T.D.A. Keonjhar

Further, the Collector has directed to all WEOs to personally contact the concerned R.Is and Amins as per Action Plan and complete the entire process by end of April,2016 positively. All Tahasildars were also requested to spare their R.Is/ Amins to extend necessary cooperation to complete the pending IFR claims in mission mood by end of this month. The house have directed to all Sub-Collectors-cum-Chairman, SDLC to look this matter personally.

After a thread bare discussion and detailed scrutiny, the Committee has approved the following claims under individual rights.

Name of the Sub-Divn.	No. of cases	Area	Out of which P.T.G.		Remarks
			No. of cases	Area	
Keonjhar	Ind. PF.- 2056 R.F.- - Total- 2056	Ac. -1019.73 Ac. - Ac. 1019.73	=	-	Details are Annx.(B)
Champua	Ind. PF.- 114 R.F.- Total- 114	Ac. -35.91 Ac. - Ac. 35.91	=	-	Details are Annx.(C)
Anandapur	Ind. PF.-67 R.F.- Total- 67	Ac. -6.05 Ac. - Ac. 6.05	=	-	Details are Annx.(A)
GRAND TOTAL	Ind .P.F.-2237 R.F. - Tot.- 2237	Ac. 1061.69 Ac. -Ac.1061.69	=	-	

After approval, the cumulative progress under IFR of Keonjhar District as on 07.04.2016 is given below.

Claims approved By 08.10.2015	Area in acre by 08.10.2015	Claims approved today i.e 07.04.2016	Area in acres	Total claims approved	Total Area in acre	Total PVTG claims approved	Total PVTG area
49830	43095.385	2237	1061.69	52067	44157.075	4907	6126.76

3. APPROVAL OF CFR CLAIMS SUBMITTED BY SDLC

The PA, ITDA, told the house that 236 nos. of CFR claims received from SDLCs have been forwarded to DFO, Keonjhar (212 nos.) & DFO (W/L) Anandapur (24 nos.) for further verification. The DFO, Anandapur has informed to the house that out of 24 claims, 07 CFR records have been returned to Ghasipura Block with objection that the claims have not been prepared as per FRA rule. Out of remaining 17 nos. cases records, the DFO, (W/L) Anandapur has submitted only 8 nos. of eligible CFR after joint verification. The DFO, Keonjhar has submitted 172 nos. of CFR Cases out of 212 after verification. The same is placed at Annexure (D) for approval.

After a thread bare discussion and detailed scrutiny, the Committee approved the 180 nos. of claims under Community Forest Resources Right (CFR).


 Project Administrator
 I.T.D.A. Keonjhar

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Besides above, 07 nos. of new CFR claims have been received from SDLC, Keonjhar.

After a detailed discussion and scrutiny, the Committee suggested that all 07 CFR cases records to be forwarded to DFO, Keonjhar for further verification.

Sl.No	Name of the Block	Name of the village	Purpose	Area/Kisam	Date of approval in SDLC
01	Ghatgaon	Chhataraypur	-	Ac.194.4	11.12.15
02	-do-	Gopinathpur	-	Ac.459.56	11.12.15
03	Patna	Jodichatar	-	Ac.70.02	11.12.15
04	Telkoi	Siriabahal	-	Ac.2.47	11.12.15
05	Banspal	Barakala	-	Hc.24.3450	11.12.15
06	-do-	Dori	-	Hc.48.0	11.12.15
07	Keonjhar	Alanapada	-	Ac.5.25	11.12.15

Further, PA, ITDA told in the house that as per Rule 12 B (3) of the Amended FR Rules, it is required that CFR rights relating to protection, regeneration, conservation and management shall be recognized in all the villages with Forest dwellers and that CFR titles shall be issued to them. Rule 12(4) further states that in case where no CFR rights are recognized in a village, the reasons for the same shall be recorded by the DLC. The house has directed to all field functionaries to take sincere steps for settlement of CFR in every villages.

Community rights

PA, ITDA told that One Community right claims have been received from SDLC, Anandapur. The detail is given below:

Sl.No	Name of the Block	Name of the village	Purpose	Area/Kisam	Date of approval in SDLC
01	Hatadihi	Anara	Const. of GP Building /Angawbadi centre/ Community centre/Rural water supply	Ac.1.00 Gramya Jungle	10.12.15

The DFO, Anandapur in his letter No.1184/dt.06.04.2016 has intimated to the Collector, Keonjhar-cum-Chairman, DLC that one application has been submitted by BDO, Hatadihi on 05.10.2015 before the Range Officer, Hadagarh for diversion of 1.00 Ac. of Gramya Jungle land in Anra Mouza for creation of developmental facilities like Community Centre, Anganwadi Kendra, Rajiv Gandhi Seva Kendra & GP Office building in newly created Anra Gram Panchayat for benefit of the people. The Anra Mouza Gram Sabha in its meeting held on 27.7.15 has recommended for diversion of the same. A writ petition bearing WP (C) No.22080/ 2014 has been filed in the Hon'ble High Court of Odisha by Sri Anirudha Nayak & Others against the Collector, Keonjhar and others for illegal construction of Rajiv Gandhi Seva Kendra on the above land. The


Project Administrator
I.T.D.A. Keonjhar

Hon'ble High Court on 18.11.2014 have been pleased to order in the above matter that "As an interim measure, no construction shall be made from the fund, allotted for Rajiv Seva Kendra Yojana till the next date". The matter was discussed in the DLC and the house has told the DFO, Ananadapur to approve diversion proposal as per FRA rule. Further, the Sub-Collector was requested to submit necessary PWC before Hon'ble High Court early for vacation of stay order.

4. DISPOSAL OF REJECTION/ APPEAL CASES

During the last review meeting held on 04.03.2016, the Collector has directed to all ADWOs/WEOs should personally contact all the IFR the claimants whose cases are rejected and facilitate them to appeal in the proper forum & complete the process within stipulated date i.e by 31.3.16. The PA, ITDA-cum-Nodal Officer, FRA told in the house that sufficient appeal forms have already been distributed to the ADWOs/WECs to receive appeal and submit to SDLC and DLC respectively. But till date no information regarding appeal cases are received by this office.

The Collector has directed once again to all WEOs/ADWOs to receive appeal from the persons whose case has been rejected and complete the appeal process in proper forum by end of April, 2016 positively as Govt. is taking serious note about it.

5. SUBMISSION OF SATURATION CERTIFICATE

As per decision in the review meeting, all WEOs have certified that there is no eligible individual claim applications available for filling claims & submitted fully saturation Certificate.

6. HABITAT RIGHTS FOR PVTGS

The matter has been discussed in the meeting. All present have opined that Govt. may be moved for deployment of experts (NGOs) to facilitate district administration for settling of Habitat Rights for PVTGs.

7. ENGAGEMENT OF AMINS WORKING IN FRA WORK

As per decision taken in the last DLC meeting, the Sub-Collectors-cum-Chairman, SDLC & PA, ITDA, Keonjhar have re-engaged following nos. of Amins & DEOs. The house have been pleased to approved ex-facto.

- 1) Sub-Collector, Anandapur - 08 Amins
- 2) Sub-Collector, Keonjhar - 15 Amins
- 3) Sub-Collector, Champua - 06 Amins
- 3) ITDA, Keonjhar . 02 DEOs

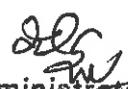

Project Administrator
I.T.D.A. Keonjhar

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8. DIVERSION OF FOREST LAND TOWARDS NON-FOREST ACTIVITIES- ISSUANCE OF CERTIFICATE THEREOF.

The PA, ITDA told the house that following 7 nos. of diversion proposals have been received from the Sub-Collector-cum-Chairman, SDLC , Champua & Keonjhar for diversion of Forest land towards Non-Forest activities- Issuance of certificate thereof.

Sl.No	Name of the User's Agency	Purpose	Name of the Sub-Collector	Mouza covering	Name of the Tahasil	Area involved
1.	BDO, Harich.pur	Const. of road from Masinajodi to Gothabhuin under Revenapalaspal GP		Masinajodi & Bangursuni	Harichan danpur	0.2225 Ha.
2.	Jagannath Steel & Power Ltd.	Alignment of pipe line for withdrawal of water from Karo river to fulfil the water requirement	Champua	Uliburu	Barbil	0.197 Ha.
3.	M/s Bhusan Steel Limited	For laying of Iron slurry pipe line system	Keonjhar/ Champua	Nayakote/Dhanurjopypur/Patuakudar/Lunagadia/Kasia/Balavadrapur	Champua	21.943 Ha.
				Fuljhar/Talaraiguda/Dudhposi/Uparraiguda/Kamagaon/Kumundi(Kha)/Khajurimundi/Khuntakata/Kasada/Baitaranibhuyan/Kuanra/ Kanjipani/Nippo/ Panasanasa/Haladipani/Uparjagar/Talajagar	Banspal	
				Oriya / Ramachandrapur/Telkoi/ Gundurijoda/Khuntapada/Kuladera/Dullavpur/Baleswar/Bhimkand / Bhandanjhari RF/Akula/ Kalima/Sirigida/ Bimala/Kundheihata	Telkoi	
4.	M/s Mideast Integrated Steels Limited (MESCO STEEL)	Road Connectivity and safety activity to Roida-I Iron Ore Mines	Champua	Sidhamatha RF	-do-	3.875 Ha.


 Project Administrator
 I.T.D.A. Keonjhar

5.	M/s Mideast Integrated Steels Limited (MESCO STEEL)	Mining Activities & Safty Zone	-do-	Sidhamatha RF	-do-	60.571 Ha
6.	Steel Authority of India, Bolani Iron Ore	Mining Activities	Champua	Bolani / Balagoda/Limitur and Karo RF	Barbil	506.22 Ha.
7.	Orissa Sponge Iron & Steel Limited	Mining and allied activities in Malangtoli Iron Ore Mines	Keonjhar	Kadakala	Banspa	34.83 Ha.

All the above 7 proposals were discussed and examined thoroughly by the committee and decision taken in each case is given below:

(A) BDO, HARICHANDANPUR

The BDO, Harichandanpur has submitted a proposal for diversion of **0.225 Ha.** of Forest land under the provision of FRA for Construction of road from Masinajodi to Gothabhuin under Rebana Palaspal GP before the DFO, Anandapur. The DFO, Anandapur has returned the proposal to the DLC with remark that the proposed site consists of Forest type lands under Revenue Deptt. Jurisdiction with a request that DLC may consider it and instructions be given to the Revenue authorities for record correction.

The house decided to send the proposal to the Tahasildar, Harichandanpur for necessary correction.

(B) SHREE JGANATH STEEL & POWER LIMITED

The General Manager, Shree Jagannath Steel & Power Limited has submitted a proposal vide his letter Dt. 26.11.2015 to the Collector & Dist. Magistrate, Keonjhar for issue of certificate for forest area of **0.197 Ha.** under Forest Right Act, 2006 for alignment of pipe line through village Hayarpur, Ulibur RF and village Ulibur for withdrawal of water from KARO river to fulfill the water requirement of Shree Jagannath Steel & Power Limited. The District Office instructed to the PA, ITDA, Keonjhar-cum-Dist. Nodal Officer, FR vide letter No. 84/Rev. dt. 11.01.2016 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area involved in the project and forward your findings in the prescribed Format -I specified in this regard within the stipulated period. The PA, ITDA, Keonjhar has forwarded the proposal to the BDO, Joda vide letter No. 127/ITDA Dt. 19.01.2016 with a request to enquiry the matter on settlement of rights under FRA and submit your report in Form No. I for Linear project to SDLC, Champua with copy to Tahasildar, Barbill. After approval of SDLC meeting on 26.03.2016 the Sub-Collector, Champua-cum-Chairman, SDLC forwarded findings in Form No. (1). The details of village wise area as follows :-

Block	Tahasil	Village	Area
Joda	Barbil	Uliburu / Hayarpur	0.197 Ha.


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Accordingly the Sub-Collector, Champua has communicated the inquiry report in Form-I meant for Linear Projects with Joint. Signature of WEO, Joda / BDO, Joda and Tahasilar, Barbil and also certify that :-

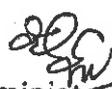
- i) The complete process for identification and settlement of rights under the FRA has been carried out for the entire 0.197 hectares of forest land proposed for diversion.
- ii) Recognized rights of PTG or PAC are not being affected in respect of proposed diversion of 0.197 Hc. of Forest land in Village Uliburu and Hayarpur.

The case was discussed and examined thoroughly by the DLC and approved for issuance of certificate in favour of Shree Jagannath Steel & Power limited.

(C) BHUSAN STEEL LIMITED

The Asst. Vice President (Projects), Bhusan Steel Limited. has submitted a proposal vide his letter Dt.08.07.2015 to the Collector & Dist. Magistrate, Keonjhar for issue of certificate for forest area of 21.943 Ha. under Forest Right Act, 2006 for laying of Iron slurry Pipe Line system .The District Office instructed to the PA, ITDA, Keonjhar-cum-Dist.Nodal Officer, FR vide letter No.1807/Rev. dt. 01.08.2015 communicated by. Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area involved in the project forward your findings in the prescribed Format specified in this regard within the stipulated period. The PA, ITDA, Keonjhar has forwarded the proposal to the BDO, Banspal/ Telkoi/ Jhumpura vide letter No.2164/ITDA Dt.07.08.2015 with a request to enquiry the matter on settlement of rights under FRA and submit your report in Form.No.I for Linear project to concerned SDLC, with copy to Tahasildars concerned .After approval of SDLC meeting held on 11.12.2015 the Sub-Collector, Keonjhar -cum-Chairman, SDLC forwarded findings in Form No.(1). Similarly the Sub-Collector, Champua-cum-Chairman, SDLC has also forward his findings in Form No.(I) after approval in SDLC held on 26.3.16. The details of village wise area as follows :-

Block	Tahasil	Village	Area
Jhumpura	Jhumpura	Nayakote/Dhanurjoypur/Patuakudar/ Lunagadia/Kasia/ Balavadrapur	2.286 Ha.
Banspal	Banspal	Fuljhar/ Talaraiguda/ Dudhposi/ Uparraiguda/ Kamagaon/ Kumundi(Kha)/ Khajurimundi/ Khuntakata/ Kasada/ Baitaranibhuyan/ Kuanra/ Kanjipani/ Nippo/ Panasanasa/ Haladipani/ Uparjagar/ Talajagar	11.406 Ha
Telkoi	Telkoi	Oriya / Ramachandrapur/Telkoi/ Gundurijoda/ Khuntapada/ Kuladera/ Dullavpur/ Baleswar/ Bhimkand / Bhandanjhari RF/ Akula/ Kalima/ Sirigida/ Bimala/ Kundheihata	8.251 Ha.
		TOTAL	21.943 Ha.


 Project Administrator
 I.T.D.A. Keonjhar

Accordingly the Sub-Collector, Keonjhar has communicated the inquiry report in Form-I meant for Linear Projects with Joint. Signature of concerned WEOs/ BDOs/ Tahasildars and also certified that recognized rights of PTG or PAC are not being affected in respect of proposed diversion of 8.251 Hc. of Forest land in Telkoi Block and 11.406 Ha. in Banspal Block. The proposal has been approved in the SDLC meeting on 11.12.2015.

The Sub-Collector, Champua has communicated the inquiry report in Form-I meant for Linear Projects with Joint. Signature of concerned WEO/ BDO/ Tahasildar and also certified that recognized rights of PTG or PAC are not being affected in respect of proposed diversion of 2.286 Ha. Hc. of Forest land in Jhumpura Block. The proposal has been approved in the SDLC meeting on 11.12.15 with following remarks

"The SDLC, Champua has reported that, though the complete process of identification and settlement of rights under the FRA said to has been carried out in the entire area of 2.286 Hc. under Jhumpura Tahasil, on spot enquiry it is found there are some left out cases of ST people who are still occupying the land and interested for getting rights as per norms and conditions of FRA Act. On further enquiry it is seen the relevant registers pertaining to FRA are not properly maintained or even available with the FRA Committee for which detail verification could not be made and detail status of claimants under FRA could not be ascertained. However on interaction with the members of the FRA Committee it is ascertained that no application has yet been filed by the present claimant by the present claimant and kept pending for disposal with the Committee. The details of occupants has also enclosed by the SDLC as follows"


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Name of Village	Khata No	Plot No	Hal Kisam	Sabik Kisam	Area in Ac.	Note of possession in ROR	Present claimants
Lunagadia	31	12	Taila-II	Jungle	1.34	Banu Naik S/o- Jagu	Pada W/o- Jogendra Naik
	31	15	Taila-II	Jungle	0.43	Bhaja, Bana, Dasuru Naik S/o- Jagu Naik	Karuna, Narana, Pratapa Naik S/o- Bhaja Naik Pada W/o- Jogendra Naik Maheswar S/o- Dasar Naik
	31	40	Taila-II	Jungle	0.39	Dhanu, Benu Naik S/o- Fagu	Kapila S/o- Dhanu, Rabi, Kabi Amina Naik S/o- Benu
	31	46	Taila-II	Jungle	0.31	Bana Naik S/o- Jagu Naik	Pada W/o- Jogendra Naik
	31	72	Taila-II	Jungle	0.53	Dhanu Naik S/o- Fagu Naik	Kapila S/o- Dhanu Naik
Balavadrapur	81	442	Sarada-II	Jungle	0.26	Bholanath Mujiram S/o- Manglu Munda	Daulat S/o- Bholanath Munda Sikandar Palia S/o- Mojiram Munda
		865	Biali	Jungle	1.65	Dugru Kolha, Gomha, Masungu S/o- Parsu Kolha	Naga Kolha S/o- Musungu, Mina Basanta D/o- Duguru Koha Kalu Chhabi, Masi Kolha S/o- Gomha Kolha
		852	Sarada-II	Jungle	0.46	Sonia Kolha S/o- Langala	Mohona, Baigiram Munda S/o- Langala
		814/1109	Taila-I	Jungle	2.38	Budhu, Pandu, Sanabandshi Kolha S/o- Gelta Kolha, Roya Kolha S/o- Genda	Budhu, Pandu, Sanabandshi Kolha S/o- Gelta Kolha, Roya Kolha S/o- Genda
		843	Sarada-II	Jungle	0.13	Langal Kolha S/o- Gomha Kolha	Mohona Baigiram Munda S/o- Langala
Kasia	104	81	Taila-II	Jungle	0.26	Sanmanga Munda S/o- Kange Munda	Kuni Munda W/o- Disu Sidhu Munda S/o- Sanamanga Sita Munda W/o- Sankuru
	104	84	Sarada-III	Jungle	1.63	Sanmanga Munda S/o- Kange Munda	Kuni Munda W/o- Disu Sidhu Munda S/o- Sanamanga Sita Munda W/o- Sankuru
	104	116	Sarada-III	Jungle	0.26	Sadana Munda, Sidharam Munda S/o- Majhi	Sadana Munda S/o- Majhi
	104	117	Sarada-III	Jungle	0.25	Sadana Munda, Sidharam Munda S/o- Majhi	Sadana Munda S/o- Majhi
	104	693	Sarada-III	Jungle	0.80	Gardi Munda S/o- Jadumani	Ghanashyam, Jadumani and Mana S/o- Gardi. Laba, Kiusha Munda S/o- Laxman Munda


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	104	699	Taila-I	Jungle	0.51	Mohanti Munda S/o- Jadumani Munda	Rajendra S/o- Mohanti Munda
Patua Kudar	75	138	Biali	Jungle	0.40	Somari Majhi D/o- Daman Majhi Sita Majhi W/o- Daman	Sita Majhi W/o- Daman
		179	Biali	Jungle	1.20	Bundua Naik S/o- Mangala	Radheshyam S/o- Anama Naik
		182	Taila-I	Jungle	3.96	Laxmidhar Mukhabana, Bhileswar Naik S/o- Rathi	Laxmidhar Bholeswar S/o- Rathi, Radhakanta Purna S/o- Mukhabana
		334	Sarada- III	Jungle	0.82	Laxmidhar Mukhabana, Bhileswar Naik S/o- Rathi	Laxmidhar Bholeswar S/o- Rathi, Radhakanta Purna S/o- Mukhabana
		329	Biali	Jungle	0.53	Benu,Manu,Fagu Naik S/o-Chandala	Manu S/o- Chandala Kalakara, Sadananda, Bhabagrahi Naik S/o- Benu, Bimala D/o- Fagu
		335	Sarada- III	Jungle	0.55	Bhara Naik S/o- Hadu	Pitabasa, Nityananda, Sitabasa Naik S/o- Late Bhara
		349	Taila-I	Jungle	0.33	Sambari Naik W/o- Madhu	Amruta Naik W/o- Anirudha
		350	Sarada- III	Jungle	0.38	Sambari Naik W/o- Madha	Amruta Naik W/o- Anirudha
		822/994	Sarada- II	Jungle	0.49	Bhakta Chandra, Sujana Prahlada S/o- Kartika	Bhakta Chandra, Sujana Prahlada S/o- Kartika
		825	Sarada- III	Jungle	0.81	Makuru Naik S/o- Askara	Makuru Naik S/o- Askara

The DLC has examined the case thoroughly and approved for issuance of certificate in favour of M/s Bhusan Steel limited with mentioning the observation of Tahasildar, Jhumpura at the time of issue of certificate.

(D) **M/s Mideast Integrated Steels Limited (MESCO STEEL)**

The Sub-Collector, Champua & Chairman, SDLC has submitted the SDLC Proceeding with documents relating to diversion of forest land for Mideast Integrated Steels Limited (MESCO Steel) for road connectivity and safety activity to Roida-I Iron Ore Mines. On scrutiny of Case records, it is found that the User's Agency in his letter No. 1/123 dt. 20.12.2014 has requested to the Collector & Dist. Magistrate, Keonjhar for issue of certificate for forest area of 3.875 Ha. under Forest Right Act, 2006 in favour of M/s MESCO Steel. The District Office instructed to the PA, ITDA, Keonjhar-cum-Dist. Nodal Officer, FRA vide letter No. 50/Rev. dt. 12.01.2015 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area


 Project Administrator
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Name of Village	Khata No	Plot No	Hal Kisam	Sabik Kisam	Area in Ac.	Note of possession in ROR	Present claimants
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	31	40	Taila-II	Jungle	0.39	Dhanu, Benu Naik S/o- Fagu	Kapila S/o- Dhanu, Rabi, Kabi Amina Naik S/o- Benu
	31	46	Taila-II	Jungle	0.31	Bana Naik S/o- Jagu Naik	Pada W/o- Jogendra Naik
	31	72	Taila-II	Jungle	0.53	Dhanu Naik S/o- Fagu Naik	Kapila S/o- Dhanu Naik
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		843	Sarada-II	Jungle	0.13	Langal Kolha S/o- Gomha Kolha	Mohona Baigiram Munda S/o- Langala
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		182	Taila-I	Jungle	3.96	Laxmidhar Mukhabana, Bhileswar Naik S/o- Rathi	Laxmidhar Bholeswar S/o- Rathi, Radhakanta Purna S/o- Mukhabana
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		329	Biali	Jungle	0.53	Benu,Manu,Fagu Naik S/o-Chandala	Manu S/o- Chandala Kalakara, Sadananda, Bhabagrahi Naik S/o- Benu, Bimala D/o- Fagu
		335	Sarada- III	Jungle	0.55	Bhara Naik S/o- Hadu	Pitabasa, Nityananda, Sitabasa Naik S/o- Late Bhara
		349	Taila-I	Jungle	0.33	Sambari Naik W/o- Madhu	Amruta Naik W/o- Anirudha
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		822/994	Sarada- II	Jungle	0.49	Bhakta Chandra, Sujana Prahlada S/o- Kartika	Bhakta Chandra, Sujana Prahlada S/o- Kartika
		825	Sarada- III	Jungle	0.81	Makuru Naik S/o- Askara	Makuru Naik S/o- Askara

The DLC has examined the case thoroughly and approved for issuance of certificate in favour of M/s Bhusan Steel limited with mentioning the observation of Tahasildar, Jhumpura at the time of issue of certificate.

(D) **M/s Mideast Integrated Steels Limited (MESCO STEEL)**

The Sub-Collector, Champua & Chairman, SDLC has submitted the SDLC Proceeding with documents relating to diversion of forest land for Mideast Integrated Steels Limited (MESCO Steel) for road connectivity and safety activity to Roida-I Iron Ore Mines. On scrutiny of Case records, it is found that the User's Agency in his letter No. 1/123 dt.20.12.2014 has requested to the Collector & Dist. Magistrate, Keonjhar for issue of certificate for forest area of 3.875 Ha. under Forest Right Act, 2006 in favour of M/s MESCO Steel. The District Office instructed to the PA, ITDA, Keonjhar-cum-Dist. Nodal Officer, FRA vide letter No.50/Rev. dt. 12.01.2015 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area


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involved in the project and take steps for obtaining consent of the Gram Sabha or Gram Sabhas, wherever required and forward your findings in the prescribed Format specified in this regard within the stipulated period. The PA, ITDA, Keonjhar has forwarded the proposal to the BDO, Joda vide letter No.121/ITDA Dt.15.01.2015 with a request to enquire the matter on settlement of rights under FRA and obtain consent of Gram Sabha in the light of observation of Secy. MoTA, Govt.of India and submit report to the SDLC, Champua with subsequent memo to Tahasildar, Barbil.

The Sub-Collector, Champua & Chairman, SDLC has submitted the proposal after due approval in SDLC held on 30.11.2015. The detail village wise are given below :-

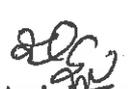
Village-Tanto

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.16.3.2008 (Annexure-A) where in Forest Right Committee members were also selected. Again on 17.10.12(Annexure-A1) Gram Sabha was held to create awareness on various provision and benefit of FR Act among the villagers. On 15.08.13 (Annexure-A2) Gram Sabha was held where in Forest Right Act was discussed. On 20.4.15 (Annexure-A3) FRC was held for awareness of FRA. For village Tanto a Pallisabha was held on 3.7.15 (Annexure-A4)where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of 3.875 Ha. of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area of 3.875 Ha. of forest land and unanimously approved the diversion of forest land in favour of M/s. **Mideast Integrated Steels Limited (MESCO STEEL)**. The SDLC has also recommended for diversion of above forest land in the meeting held on 30.11.15 .The videography of the proceeding of the Gram Sabha meeting held on 3.07.2015 has been made.

The SDLC, Champua in their meeting held on dtd.30.11.15 furnished certificates ensuring attendance of more than 50% of voters of the concerned villages & verifying the signatures/ LTI of the participants duly attested with reference to Electoral Roll of the village. The SDLC further certified that the ST & OTFD(RFR) Act,2006 and amendment rule,2012 has been ensured in respect of Tanto village and there is no claim either individual or community on the forest land proposed for diversions in the respective villages

For better appreciation of the DLC, the details of village, extent of land & other relevant information concerning diversion of forest land measuring an area of 3.875 Ha. of User's Agency M/s **Mideast Integrated Steels Limited (MESCO STEEL)**

Name of the village / Mouza	Extent of land apply (in Ha.)	Kisam of the land	Date of Gram Sabha when the diversion proposal approved	No.of Voters as per Electoral roll	No.of Voters signed in the Gram Sabha	Whether genuineness of voters verified with reference of Sl.No.of Electoral roll by authorized Govt. official in Gram Sabha	Whether joint verification certificate is countersigned by the Chairman SDLC	Previously Gram Sabha held in concerned village where provisions of FR Act was discussed
Sidha matha RF	3.875 Ha	Reserve Forest (adjournin g village TANTO	3.7.15	312	186	yes	yes	16.3.08-FRC constituted 30.6.15-FRC meeting held 17.10.12— <u>Awareness</u> 15.8.13-Awareness


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E) M/s Mideast Integrated Steels Limited (MESCO STEEL)

On scrutiny of Case record, it is found that as per request of User's Agency MESCO Steel on dt.24.4.13 for compliance of ST & OTFD Act,2006 for diversion of forest land towards non-forest activities for Mining purpose, the District Office instructed to the Tahasildar, Barbil vide letter No.2206/Rev. dtd.15.12.13 communicated by ADM, Keonjhar to enquire the matter to ensure compliance of ST & OTFD (RF&R) Act,2006. The Tahasildar, Barbil has recommended the diversion proposal of forest land measuring an area 60.571 Ha. to the SDLC. The Sub-Collector, Champua-cum-Chairman, SDLC has submitted the proposal after approval in the SDLC held on 30.11.2015. The detail village wise are given below :-

Village-Tanto

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.16.3.2008 (Annexure-A-5) where in Forest Right Committee members were also selected. Again on 17.10.12(Annexure-A-6) Gram Sabha was held to create awareness on various provision and benefit of FR Act among the villagers. On 15.08.13 (Annexure-A-7) Gram Sabha was held where in Forest Right Act was discussed. On 20.4.15 (Annexure-A-7) FRC was held for awareness of FRA. For village Tanto a Pallisabha was held on 3.7.15 (Annexure-A-8) where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of 60.571 Ha. of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area of 60.571 Ha. of forest land and unanimously approved the diversion of forest land in favour of M/s. Mideast Integrated Steels Limited (MESCO STEEL)

The SDLC has also recommended for diversion of above forest land in the meeting held on 30.11.15. The videography of the proceeding of the Gram Sabha meeting held on 3.7.15 has been made.

The SDLC, Champua in their meeting held on dtd.30.11.15 furnished certificates ensuring attendance of more than 50% of voters of the concerned villages & verifying the signatures/ LTI of the participants duly attested with reference to Electoral Roll of the village. The SDLC further certified that the ST & OTFD(RFR) Act,2006 and amendment rule,2012 has been ensured in respect of Tanto village and there is no claim either individual or community on the forest land proposed for diversions in the respective villages.


Project Administrator
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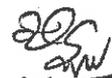
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For better appreciation of the DLC, the details of village, extent of land & other relevant information concerning diversion of forest land measuring an area of **60.571 Ha.** of User's Agency **M/s Mideast Integrated Steels Limited (MESCO STEEL):-**

Name of the village/ Mouza	Extent of land apply (in Ha.)	Kisam of the land	Date of Gram Sabha when the diversion proposal approved	No. of Voters as per Electoral roll	No. of Voters signed in the Gram Sabha	Whether genuineness of voters verified with reference of Sl.No. of Electoral roll by authorized Govt. official in Gram Sabha	Whether joint verification certificate is countersigned by the Chairman SDLC	Previously Gram Sabha held in concerned village where provisions of FR Act was discussed
Sidhamatha RF	60.571 Ha.	Reserve Forest adjoining village TANTO	3.7.15	312	186	yes	yes	16.3.08-FRC constituted 30.6.15-FRC meeting held 17.10.12 Awareness 15.8.13-Awareness 20.4.15-FRC meeting
TOTAL	60.571 Ha							

The diversion proposals submitted after approval in SDLC held on dated 30.11.2015. . The detail land schedule duly signed by Forest Range Officer, Barbil Range & Tahasildar, Barbil. Considering the (i) approval of the Gram Sabha of Tanto village, (ii) recommendation of SDLC, Champua dtd. 30.11.2015 (iii) Joint verification certificates ensuring participation of more than 50% of the voters of the villages and "No claim" either Individual or Community on the proposed Forest land under ST & OTFD (RFR) Act, 2006 & Rules there under, (iv) land particulars for proposed diversion land jointly signed by Tahasildar, Barbil and Forest Range Officer, Barbil Range (v) Enquiry report signed by Sub-Collector, Champua Tahasildar, Barbil and Forest Range Officer, Barbil Range, President of FRC Committee of the concerned village (vi) proceedings of SDLC, Champua held on 30.11.15, (vii) and the certification about no claim over the proposed land by ST, PTG & OTFD under FR Act for individual and CFR purposed. , The DLC (FR), Keonjhar convinced that:-

- the complete process for identification and settlement of rights under the FRA has been carried out for the entire **60.571 Hectares** forest land proposed for diversion in village **Tanto** as revealed from the proceedings of the Gram Sabha.
- the proposal for such diversion in vernacular/local language have been placed before each concerned Gram Sabha of forest dwellers, who are eligible under the FRA. as revealed from the proceeding of the Gram Sabha.


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- c) The concerned Gram Sabhas have certified that all formalities/processes under the FRA have been carried out and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of proposed diversion.
- d) It reveals from the enquiry report furnished by Revenue & Forest personnel the discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabha present.
- e) It reveals from the enquiry report furnished by Revenue & Forest personnel that no such facilities managed by the Govt. as required under section 3(2) of the FRA requiring diversion of forest land exist within the applied area as.
- f) the right of PTG and PAC where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA as reveals from the enquiry report furnished by Revenue & Forest personnel.
- g) It reveals from the proceeding of the Gram Sabha of village that no ST or OTFD were in possession of the forest land proposed for diversion before 13.12.2005.
- h) Further it reveals from the Gram Sabha proceedings of the above village that no tribal or OTFD are presently residing nor any title of rights has been granted under the ST & OTFD(RFR)Act,2006 to any tribal or OTFD on the Forest land proposed for diversion.

The DLC has examined the case and approved for issuance of FRA certificate in favour of M/s. Mideast Integrated Steels Limited.

F) STEEL AUTHORITY OF INDIA, BOLANI IRON ORE

On scrutiny of Case record, it is found that as per request of User's Agency Steel Authority of India, Bolani for compliance of ST & OTFD Act, 2006 for diversion of forest land of Ac. 506.22 towards non-forest activities for Mining purpose. The District Office instructed to the Tahasildar, Barbil vide letter No.1954/Rev. dtd. 5.9.2011 communicated by ADM, Keonjhar to enquire the matter to ensure compliance of ST & OTFD (RF&R) Act, 2006. The Tahasildar, Barbil has informed that the land measuring Ac.1.47/0.60 Ha. is under encroachment by 07 tribals in Village Balagoda. Tahasildar has recommended the diversion proposal of forest land measuring an area 505.62 Ha(465.02 Ha. for mining purpose and 40.60 Ha. for Safety Zone) excluding 0.60 Ha out of total forest area i.e. 506.22 ha. to the SDLC. The Sub-Collector, Champua-cum-Chairman, SDLC has submitted the proposal after approval in the SDLC held on 30.11.2015.

The detail village wise is given below.

Village -Balani

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.16.3.2008 (Annexure-A-9) where in Forest Right Committee members were also selected. Again on 17.10.12(Annexure-A-10) Gram Sabha was held to create awareness on various provision and benefit of FR Act among the villagers. On 18.10.12 (Annexure-A11) Gram Sabha was held where in Forest Right Act was discussed. For village Balani a Gramsabha was held on 21.10.11 (Annexure-A12) where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area forest land and unanimously approved the diversion of forest land in favour of M/s. Steel Authority of India, Bolani Ores Mines

Village –Balaguda

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.23.3.2008 (Annexure-A-13) where in Forest Right Committee members were also selected. Again on 17.10.12 (Annexure-A-14) Gram Sabha was held to create awareness on various provision and benefit of FR Act among the villagers. For village **Balaguda** a Gramsabha was held on **21.10.11** (Annexure-A12) where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area forest land and unanimously approved the diversion of forest land in favour of **M/s. Steel Authority of India, Bolani Ores Mines**

Village –Limitur

Previously awareness on Forest Right Act was made in village by holding a Pallisabha on Dtd.23.3.2008 (Annexure-A-15) where in Forest Right Committee members were also selected. Again on 7.1.13 (Annexure-A-14) Pallisabha Sabha was held to create awareness on various provision and benefit of FR Act among the villagers and re-constitute of FRC. For village Limitur a Gramsabha was held on 17.10.11 at Balaguda GP (Annexure-A-12) where in discussion on Forest Right claim was made and it was found that no STs & OTFD people lived in the proposed area of forest land and do not depend upon the said forest area for earning their livelihood. The Palli Sabha convinced that there is no claim of any STs, PTGs & OTFD over the proposed area forest land and unanimously approved the diversion of forest land in favour of **M/s. Steel Authority of India, Bolani Ores Mines.**

The SDLC has also recommended for diversion of above forest land in the meeting held on **30.11.15**. The videography of the proceeding of the Gram Sabha meeting held has been made.

The SDLC, Champua in their meeting held on dtd. **30.11.15** furnished certificates ensuring attendance of more than 50% of voters of the concerned villages & verifying the signatures/ LTI of the participants duly attested with reference to Electoral Roll of the village. The SDLC further certified that the ST & OTFD(RFR) Act, 2006 and amendment rule, 2012 has been ensured in respect of **Balani, Balagoda & Limitur** village and there is no claim either individual or community on the forest land proposed for diversions in the respective villages.

For better appreciation of the DLC, the details of village, extent of land & other relevant information concerning diversion of forest land measuring an area of **505.62 Ha.** of User's Agency M/s Steel Authority of India, Bolani Ores Mines. The details of village wise area as follows :-

Name of the village/ Mouza	Extent of land apply (in Ha.)	Kisam of the land	Date of Gram Sabha when the diversion proposal approved	No. of Voters as per Electoral roll	No. of Voters signed in the Gram Sabha	Whether genuineness of voters verified with reference of Sl.No. of Electoral roll by authorized Govt. official in Gram Sabha	Whether joint verification certificate is counter signed by the Chairm an SDLC	Previously Gram Sabha held in concerned village where provisions of FR Act was discussed
Bolani	42.08 Ha	Revenue Forest	21.10.11	1221	634	Yes	Yes	16.3.08- FRC Constituted 17.10.12- Awareness 18.10.12- Awareness
Balagoda	56.83 Ha	-do-	17.10.11	3263	1783	Yes	Yes	23.3.08- FRC Constituted 17.10.12- Awareness
Limtur	67.50 Ha	-do-	17.10.11 At Balagoda GP	101	83	Yes	Yes	23.3.08- FRC Constituted 15.8.11-Awareness 7.1.13-re constitution of FRC
Karo RF	339.21 Ha	Reserve Forest						
TOTAL	505.62 Ha							

The diversion proposals submitted after approval in SDLC held on dated 30.11.2015. The detail land schedule duly signed by Forest Range Officer, Barbil Range & Tahasildar, Barbil. Considering the (i) approval of the Gram Sabha of Tanto village, (ii) recommendation of SDLC, Champua dtd. 30.11.2015 (iii) Joint verification certificates ensuring participation of more than 50% of the voters of the villages and "No claim" either Individual or Community on the proposed Forest land under ST & OTFD (RFR) Act, 2006 & Rules there under, (iv) land particulars for proposed diversion land jointly signed by Tahasildar, Barbil and Forest Range Officer, Barbil Range (v) Enquiry report signed by Sub-Collector, Champua Tahasildar, Barbil and Forest Range Officer, Barbil Range, President of FRC Committee of the concerned village (vi) proceedings of SDLC, Champua held on 30.11.15, (vii) and the certification about no claim over the proposed land by ST, PTG & OTFD under FR Act for individual and CFR purposed. , The DLC (FR), Keonjhar convinced that:-


 Project Administrator
 J.T.D.A. Keonjhar

- a) The complete process for identification and settlement of rights under the FRA has been carried out for the entire **505.62 Hectares** forest land proposed for diversion in villages as revealed from the proceedings of the Gram Sabha.
- b) The proposal for such diversion in vernacular/local language have been placed before each concerned Gram Sabha of forest dwellers, who are eligible under the FRA. as revealed from the proceeding of the Gram Sabha.
- c) The concerned Gram Sabhas have certified that all formalities/processes under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of proposed diversion.
- d) It reveals from the enquiry report furnished by Revenue & Forest personnel the discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabh present.
- e) It reveals from the enquiry report furnished by Revenue & Forest personnel that no such facilities managed by the Govt. as required under section 3(2) of the FRA requiring diversion of forest land exist within the applied area as.
- f) the right of PTG and PAC where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA as reveals from the enquiry report furnished by Revenue & Forest personnel.
- g) It reveals from the proceeding of the Gram Sabha of village that no ST or OTFD were in possession of the forest land proposed for diversion before 13.12.2005.
- h) Further it reveals from the Gram Sabha proceedings of the above villages that no tribal or OTFD are presently residing nor any title of rights has been granted under the ST & OTFD(RFR)Act,2006 to any tribal or OTFD on the Forest land proposed for diversion.

The DLC has examined the case and approved for issuance of FRA certificate in favour of **Steel Authority Of India Ltd. Bolani Iron Ores.**

G) ORISSA SPONGE IRON & STEEL LIMITED

The Sub-Collector, Keonjhar & Chairman, SDLC has submitted the SDLC proceeding with case record relating to diversion of forest land for M/s Odisha Sponge Iron Limited for Mining activity. On scrutiny of Case records, it is found that the User's Agency in his letter dt.21.9.15 has requested to the Collector & Dist.Magistrate, Keonjhar for issue of certificate for forest area of **34.83 Ha.** under Forest Right Act,2006 in favour of M/s Orissa Sponge Iron & Steel Ltd.. The District Office instructed to the PA,ITDA, Keonjhar-cum-Dist.Nodal Officer, FR vide letter No.2835/Rev. dt. 26.12.15 communicated by Collector, Keonjhar to enquire the matter on settlement of rights under FRA in the forest area involved in the project and take steps for obtaining consent of the Gram Sabha or Gram Sabhas, wherever required and forward your findings in the prescribed Format specified in this regard within the stipulated period. The PA,ITDA,Keonjhar has forwarded the proposal to the BDO,Banspal vide letter No.108/ITDA Dt.15.1.16 with a request to enquire the matter on settlement of rights under FRA and obtain consent of Gram Sabha in the light of observation of Secy.MoTA, Govt.of India and submit report to the SDLC,Keonjhar with subsequent memo to Tahasildar,Banspal. The details of village wise area as follows :-


 Project Administrator
 I.T.D.A. Keonjhar

Name of the village/Mouza	Extent of land apply (in Ha.)	Kisam of the land	Date of Gram Sabha when the diversion proposal approved	No. of Voters as per Electoral roll	No. of Voters signed in the Gram Sabha	Whether genuineness of voters verified with reference of Sl.No. of Electoral roll by authorized Govt. official in Gram Sabha	Whether joint verification certificate is countersigned by the Chairman SDLC	Previously Gram Sabha held in concerned village where provisions of FR Act was discussed
Kadakala	34.83 Ha.	Parbat-II	20.2.16	494	343	Yes	Yes	16.9.08 -FRC constituted 18.10.10-Pallisabha 5.2.14-Pal;lisabha-Awareness of FR Act

The diversion proposals submitted after approval in SDLC held on dated 26.3.16. The detail land schedule duly signed by Forest Range Officer, BJP Range & Tahasildar, Banspal. The SDLC, Keonjhar has recommended the above diversion proposal to the DLC for approval with following certificate:

"The house directed to the BDO/WEO Banspal to verify and give certificate that there is no claims or no applications pending in the village Kadakala under FRA. After received of the same from the BDO, Banspal, the Nodal Officer, FRA was directed to put up the proposal in next DLC meeting."

Therefore, it was unanimously decided by the District Level Committee to submit proposal of Shri Jagannath Steel & Power Limited, M/s Bhusan Steel Limited, M/s MESCO Limited (two proposals) and M/s Steel Authority India, Bolani Ore Mines to Collector & District Magistrate, Keonjhar for issuance of certificate regarding compliance of STs and OTFDs (RFR) Act, 2006 & Rules there under.

The District Nodal Officer, FR was directed to submit the original documents of Shri Jagannath Steel & Power Limited, M/s Bhusan Steel Limited, M/s MESCO Limited (two proposals) and M/s Steel Authority India, Bolani Ore Mines to the Collector & District Magistrate, Keonjhar for issuance of certificate regarding compliance of STs and OTFDs (RFR) Act, 2006 & Rules there under.

The meeting ended with a vote of thanks to the Chair as well as the participants.

PA, ITDA-CUM-NODAL OFFICER (FRA)

COLLECTOR, KEONJHAR

INTEGRATED TRIBAL DEVELOPMENT AGENCY : KEONJHAR

Memo No. 1141 /ITDA(FR) Dated : 18.07.16

Copy submitted to the Director(ST-cum-Addl. Secretary to Govt., ST & SC Development Department, Odisha, Bhubaneswar/ Collector, Keonjhar / ADM,Keonjhar for kind information and necessary action.

205
PROJECT ADMINISTRATOR, ITDA,
-CUM-DIST. NODAL OFFICER, FR

Memo No 1142 /ITDA. Dated : 18.07.16

Copy to all members for information and necessary action.

205
PROJECT ADMINISTRATOR, ITDA,
-CUM-DIST. NODAL OFFICER, FR

MINUTES OF DISCUSSION IN THE SDLC (FOREST RIGHTS) CHAMPUA HELD ON 30.11.2015 AT 3.00 P.M. IN THE OFFICE CHAMBER OF THE SUB-COLLECTOR-CUM-CHAIRMAN, SDLC, CHAMPUA.

Members present:

1. Sub-Collector-cum-Chairman, SDLC, Champua.
2. Forest Range Officer, Champua
3. Sri Bijendra Munda P.S Member
4. S.O,ITDA,Champua
5. ADWO, Champua
6. WEO, Jhumpura
7. WEO, Joda

ANNEXURE-II

The Sub-divisional Level Committee meeting was held on 30.10.2015 at 3.00 P.M. in the Office Chamber of the Sub-Collector, Champua under the Chairmanship of Sub-Collector-cum-Chairman, SDLC Champua. The proceedings of the last SDLC meeting held on 26.09.2015 was circulated among all the members, vide memo No.4800 / F.R/Dt.26.09.2015. No objection has been received from any quarter so far. The committee confirmed the proceeding of meeting held on dt. 30.11.2015.

At the outset, the Sub-Collector-cum-Chairman, SDLC welcomed all members / invitees and sought their Active cooperation in implementation of the scheme i.e. ST & Others Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006.

The progress of rejected claims at Gram Sabha level was discussed. The WEOs were instructed to submit the rejected claim proposals with reason immediately for data uploaded in Website. The details of rejected cases are given below.

Sl. No.	Name of the Block	Application rejected at G.S level	No. of rejected cases			
			Rejected proposals already submitted to DLC	Now submitted	Total	Balance pending for submission
1.	Champua	600	600	-	600	-
2.	Jhumpura	565	565	-	565	-
3.	Joda	574	574	-	574	-
	Total	1739	1739	-	1739	-

The B.D.O, Champua, Jhumpura and Joda were requested to intimate the applicants regarding rejection of applications immediately and intimate to the PA, ITDA-Cum-Nodal Office, F.R, Keonjhar as well as to this Office.

Position of I. A. Y

Name of the Sub-Division	Name of the Block	Beneficiaries covered under	
		IAY(Target)(2012-13)	IAY(Target)(2013-14)
Champua	Champua	265	76
	Jhumpura	532	210
	Joda	337	138
	Total:-	1134	424

ASO, Dist. Welfare Office,
Champua

Bijendra Munda
Panchayat Samiti Member
Balagoda G.P.

Forest Range Officer
Champua Range

The B.D.O, Champua/Jhumpura/Joda were requested to submit information in the prescribed format relating to convergence on FRA IAY to the P.A.I.T.D.A, Keonjhar -Cum- Dist.Nodal Office, FRA, as sought for by him vide his letter No.3312/ITDA.24.11.2015 with a copy to this Office.

Individual/CFR&CR applications

The W.E.O, Champua / Jhumpura/Joda intimated that no action has been taken on the pending applications due to disengagement of Amins. So, P.A., I.T.D.A, Keonjhar-Cum-Dist.Nodal Officer, F.R is requested to take necessary steps for engagement of contractual Amins for settlement of claims under forest right Act.

Diversion Proposal

The Tahasildar, Barbil has submitted three nos of diversion proposals of forest land for non-forest activities.

1-M/S SAIL Bolani Ores Mines

The Tahasildar, Barbil has submitted the diversion proposal of forest land for non-forest purpose measuring an area 505.62 Ha in stead of 506.22 Ha. due to encroachment of forest area measuring 0.60 Ha. of mouza Balagoda by 07 nos tribal people. W.E.O, Joda has also submitted a certificate in this regard. The details are noted below:-
Bolani - 42.08 ha, Balagoda - 56.83 ha, Limitura - 67.50 ha. and
Karo R.F. - 339.21 ha

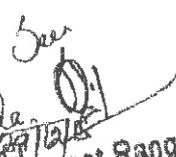
Bolani

- 16.03.2008:-
i) Forest Right Committee was formed in the Palli Sabha.
ii) Application was invited from the eligible ST & OTFD. (Annexure- A)
- 14.10.2011:-
i) Forest Right Committee meeting was held.
ii) The forest land proposed for diversion was discussed. Nobody resides/depends on the aforesaid forest land. Ther is no objection, if the proposed land is used for non-forest activities (Annexure- B)
- 21.10.2011:-
Grama Sabha Was held for diversion of forest land for non forest purpose by the User Agency. the proposal was also passed in the Grama Sabha for non-forest activities. (Annexure- C)

Awareness

- 17.10.2012:-
i) Grama Sabha Sasakti Karana was held. Para-9 states that different as pact of ST & OTFD Rules was discussed. (Annexure- D)


Panchayat Samiti Member
Balanoda G.P.


Forest Range Officer
Chamoua Range


PROJECT MANAGER
S.D.A. CHAMPUA

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Office

18.10.2012:- Grama Sabha Sasakti Karana was held. Para-8 states that discussion was made for supply of Patta under this Act. (Annexure- E)

Balagoda

23.3.2008:- i) Forest Right Committee was formed in the Palli Sabha.
ii) Applications were invited from the eligible ST & OTFD. (Annexure- A)

10.10.2011:- i) i) Forest Right Committee meeting was held.
ii) The forest land proposed for diversion was discussed. Nobody resides/depends on the aforesaid forest land. There is no objection, if the proposed land is used for non-forest activities. (Annexure- B)

17.10.2011:- Grama Sabha was held for diversion of forest land for non forest purpose by the User Agency. The proposal was also passed in the Grama Sabha for non-forest activities. The W.E.O Joda apprised the Chairman that Grama Sabha was held for village Balagoda and Nimitur for the proposed land since the villagers of both the villages depend on the same forest. (Annexure- C)

Awareness

17.10.2012:- i) Grama Sabha Was held. (Para-10) Dissussion was made on issue of Patta to the ST & OTFD under this Act. (Annexure- D)

Nimitur

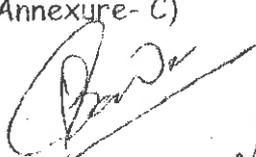
23.03.2008:- i) Forest Right Committee was formed.
ii) Application was invited from the eligible ST & OTFD. (Annexure-A)

13.10.2011:- i) Discussion was made on the forest land proposed for diversion.

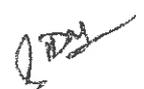
ii) It was discussed in the meeting that no ST & OTFD resides/depends nor title issued to anybody on the aforesaid forest land.

iii) It was also unanimously passed in the F.R.C meeting that there is no objection, if the proposed forest area is used by the User Agency. (Annexure-B)

17.10.2011:- Grama Sabha was held for diversion of forest land for non forest purpose by the User Agency. The proposal was also passed in the Grama Sabha for non-forest activities. The W.E.O Joda apprised the Chairman that Grama Sabha was held for village Nimitur and Balagoda for the proposed land since the villagers of both the villages depend on the same forest. (Annexure- C)



Bijender Munda
Panchayat Samiti Member
Balagoda G.P.
12/15
Forest Range Officer
Chambua Range



7.1.2013:-

Awareness was created for submission of applications under ST & OTFD Act. (Annexure- D)

It is ascertain from the enquiry report submitted by the President/ Secretary/ Forest Range Officer, Barbil Range, Barbil and Tahasildar, Barbil and land Scheduled submitted by the Tahasildar, Barbil that the land measuring Ac. 1.47 /0.60 Ha is under encroachment by 07 tribals of mouza Balagoda. So, the Diversion proposal of forest land measuring an area 505.62 Ha (465.02 ha for mining purpose and 40.60 ha for Safety Zone) excluding 0.60 ha out of total forest area i.e. 506.22 ha has been recommended to S.D.L.C. It was also discussed in the meeting. The members present scrutinised the proposal and found correct. The Chairman also satisfied and agreed to recommend the proposal to D.L.C.F.R.

Vidio recording has not been made since the Grama Sabha was held during the year 2011. At that time Vidio recording was not required.

2-M/S Mideast Integrated Steels Ltd. - Sidhamath Reserve Forest

The Tahasildar, Barbil has submitted the diversion proposal of forest land for non-forest purpose measuring an area 60.571 Ha (51.99 Ha for Mining Purpose + 8.581 Ha for Safety Zone). The details are noted below:-

Tanto

16.03.2008:-

- i) Forest Right Committee was formed in the Palli Sabha.
- ii) Application was invited from the eligible ST & OTFD. (Annexure- A)

30.06.2015:-

- i) Forest Right Committee meeting was held.
- ii) The forest land proposed for diversion was discussed. Nobody resides/depends on the aforesaid forest land. Ther is no objection, if the proposed land is used for non-forest activities (Annexure- B)

3.7.2015:-

Grama Sabha was held for diversion of forest land for non forest purpose measuere an area 60.571 ha. The proposal was unanimously passed in the Grama Sabha that there is no object if the proposed land is used for non-forest purpose since no body depends/resides on the proposed land.

(Annexure- C)

Awareness

17.10.2012:-

Grama Sabha Sasakti Karana was held. Para-9 states that discussion was made for issue of title to the eligible ST & OTFD. (Annexure- D)

15.08.2013:-

Grama Sabha was held. Para: - 6 - Discussion was made for submission of application under this act through Forest Right Committee. (Annexure- E)

Extension Officer
10/11/13

Asst. Dist. Welfare Officer
Champua

Bijander Munda
Panchayat Samiti Member
Balagoda G.P.

Forest Range Officer

PROJECT S/W
QUAL

20.04.2015:- Forest Right Committee Meeting was held. Discussion was made on issue of title under this act. (Annexure- F)

3-M/S Mideast Integrated Steels Ltd. - Sidhamath Reserve Forest

The Tahasildar, Barbil has submitted the diversion proposal of forest land for non-forest purpose measuring an area 03.875 Ha for Road connectivity & Safety activity. The details are noted below:-

Tanto

16.03.2008:- i) Forest Right Committee was formed in the Palli Sabha.
ii) Application was invited from the eligible ST & OTFD. (Annexure- A)

30.06.2015:- i) Forest Right Committee meeting was held.
ii) The forest land proposed for diversion was discussed. Nobody resides/depends on the aforesaid forest land. There is no objection, if the proposed land is used for non-forest activities (Annexure- B)

3.7.2015:- Grama Sabha was held for diversion of forest land for non forest purpose measuring an area 60.571 ha. The proposal was unanimously passed in the Grama Sabha that there is no objection if the proposed land is used for non-forest purpose since no body depends/resides on the proposed land.
(Annexure- C)

Awareness

17.10.2012:- Grama Sabha Sasakti Karana was held.
Para-9 states that discussion was made for issue of title to the eligible ST & OTFD. (Annexure- D)

15.08.2013:- Grama Sabha was held.
Para: - 6 - Discussion was made for submission of application under this act through Forest Right Committee. (Annexure- E)

20.04.2015:- Forest Right Committee Meeting was held. Discussion was made on issue of title under this act. (Annexure- F)

Basing on the Joint enquiry reports of President/Secretary of F.R.C / Tahasildar, Barbil/Forest Range Officer, Barbil Range, Barbil along with Grama Sabha Proceedings, Certificate furnished by Tahasildars, P.E.Os, the SDLC committee come to the conclusion that:-

a. the complete process for identification and settlement of rights under the FRA has been carried out for the entire forest land proposed for diversion.

[Signature]
H.O. F.R.C.

[Signature]
Asst. Dist. Welfare Officer
Champur

Forest Range Officer

[Signature]
Bijender Munkher
Panchayat Samiti Member
Balagoda G.P.
Forest Range Officer
Balagoda Range

A copy of proceedings of FRC(s) and Gram Sabha(s) are enclosed.

b. the proposal for such diversion in vernacular / Local language have been placed before each concerned Grama Sabha of forest dwellers, who are eligible under FRA as revealed from the proceedings of the respective Grama Sabhas.

c. each of the concerned Grama Sabha (s) has certified that all formalities/process under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of proposed diversion. A copy of Grama Sabha resolutions enclosed.

d. it reveals from the enquiry report furnished by Revenue & Forest personnel the discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50 % of the members of Gram Sabha present:

e. it reveals from the enquiry report furnished by Revenue & Forest personnel that no such facilities managed by the Govt. as required under Section 3(2) of the FRA requiring diversion of forest land exist within the applied areas .

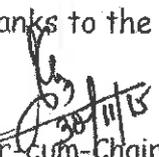
f. the right of PTG and PAC where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA as reveals from the enquiry report furnished by Revenue & Forest personnel.

g. it reveals from the proceedings of the Gram Sabhas/Certificate furnished by the Tahasildar,Barbil that no ST or OTFD were in possession of the forest land proposed for diversion before 13.12.2005.

h. Further it reveals from the Gram Sabha proceedings of above villages that no tribal or OTFD are presently residing nor any title of rights has been granted under the ST & OTFD (RFR) Act.2006 to any tribal or OTFD on the forest land proposed for diversion.

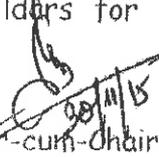
The S.D.L.C Members decided to recommend the diversion proposal of 1-M/\$ SAIL Bolani Ores Mines, 2-M/S Mideast Integrated Steels ltd 3-M/S Mideast Integrated Steels Ltd to DLC,F.R for taking further necessary action.

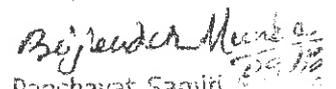
The meeting was ended with vote of thanks to the Chair.


Sub-Collector-cum-Chairman,
SDLC, Champua.

Memo No. 5638 /Dt. 04/12/2015

Copy forwarded to all members of SDLC for information and necessary action/Copy forwarded to All BDOs/ All Tahasildars for information and necessary action.


Sub-Collector-cum-Chairman,
SDLC, Champua.


Bijender Mehta
Panchayat Samiti
Balagoda


Forest Range Officer
Champua Range



Memo No 5639 /Dt. 04/12/2015

Copy along with 03 (three) diversion proposals forwarded to the PA, ITDA, Keonjhar-cum-Nodal Officer, DLC, Keonjhar for information and necessary action.

Copy to the P.A., ITDA, Champua for information.

[Signature]
08/11/15
Sub-Collector-cum-Chairman,
SDLC, Champua

Memo No. 5640 /Dt. 04/12/2015

Copy submitted to the Collector & District Magistrate, Keonjhar for kind information.

[Signature]
08/11/15
Sub-Collector-cum-Chairman,
SDLC, Champua

[Signature]
Forest Range Officer
Champua Range

[Signature]
PROJECT MANAGER
ITDA, CHAMPUA

[Signature]
Asst. Dist. Welfare Officer
Champua

[Signature]
Bijender Munda
Panchayat Samiti Member
Balagoda G.P.

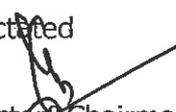
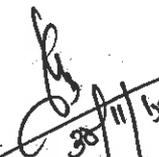
ORDER SHEET

Schedule -- LIII Form No. 320

(See Paragraph 207 (1) of the Orissa Records Manual, 1964)

Order Sheet dated from _____ to 30.11.2015 Tahasil :- Barbil, PS-Bolani ,
 Village:- Bolani, District Keonjhar, Sub Division :Champua No. 1621/2015
 Nature Of Case: - **Scheduled Tribe and Other Traditional Forest Dwellers (Recognition of Forest Right) Act, 2006 and Rules, 2007.**

Name: - M/S SAIL Bolani Ores Mines

Serial number and date of Order	Order and signature of the Officer	Note of action taken on order with date
1	2	3
30.11.2015.	<p>One diversion proposal of forest land for non-forest purpose of the User Agency M/S SAIL Bolani Ores Mines covering area 505.62 Ha, has been received from the Tahasildar, Barbil. The proposal has been passed in the concerned Forest Right Committee and the proposal has also been passed in the Grama Sabha held on 21.10.2011 and 17.10.2011 with minimum 50% quorum. 0.60 Ha is under encroachment of mouza Balagoda. So the enquiring Officers have recommended the proposal measuring forest land 505.62 Ha ,excluding 0.60 Ha out of total forest land i.e 506.22 Ha</p> <p>The Sub-Divisional Level Committee has gone through the application as well as the verification report attached there on. It has been decided in the Grama Sabha Resolution that the forest land measuring an area 505.62 will be used for the purpose of mining activities and Safety Zone by the User Agency M/S SAIL Bolani Ores Mines since no body depends on the proposed forest land.(Mining purpose- 465.02 ha + S.Z- 40.60 ha)</p> <p>The Sub-Divisional Level Committee has also passed the proposal on 30.11.2015 in this regard.</p> <p>Send the C/R to Dist.Level Committee for taking needful action.</p> <p>Dictated  Sub-Collector & Chairman SDLC ER, Champua</p> <p> 30/11/15 Sub-Collector & Chairman SDLC ER, Champua</p>	



ENQUIRY REPORT ON DIVERSION OF FOREST LAND FOR NON FOREST PURPOSE –
ENSURING COMPLIANCE OF SCHEDULED TRIBE & OTHER TRADITIONAL FOREST
DWELLERS (RECOGNITION OF FOREST RIGHT) ACT, 2006

1. Name of the Project and purpose of : STEEL AUTHORITY OF INDIA LIMITED
2. Name of the Project and purpose of Diversion : Bolani Ores Mines
3. Name of the village(s) and R.F. area Covered under Diversion Proposal :

Bolani	Ac. 103.95=	42.08 ha
Balagoda	Ac. 141.85=	57.43 ha
<u>Limtur</u>	<u>Ac. 166.72=</u>	<u>67.50 ha</u>
Total::	Ac. 412.52=	167.01 ha.
Karo R.F.	Ac.837.85=	339.21 ha
<u>G Total</u>	<u>Ac.1250.37=</u>	<u>506.22 ha</u>
4. Name of the G.P. (s) : Bolani & Balagoda
5. Name of the Tahasil : Barbil
6. Extent of Forest land under Diversion :

Mining	Ac.1150.08=	465.62 ha
Safety Zone	Ac. 100.29=	40.60 ha

 - a) Revenue Forest : Area in Acre/ Hect. (Details of Land Schedule & map is Annexed as per Format-I) : Ac.412.52= 167.01 ha.
 - b) Reserved Forest : Area in Acre/ Hect. (Map to be enclosed) : Ac.837.85= 339.21 ha.
7. If any claims received under Forest Right : No.
 - c) Total Area- In Acre/ Hect Act, 2006 out of the above diversion Proposal : **Ac. 1250.37 / 506.22 Hac.**
(Ac.1,47 of forest land is under encroachment)
 - I. If Yes, give details of claims received (To be enclosed in Format-II & III) :
 - a) Total claims approved in the Dist. Level Committee out of the above diversion Proposal : --
 - (i) For Revenue Forest (In Acre/Hect.) : Ac.1.47
(Under encroachment)
 - (ii) For Reserve Forest(In Acre/ Hect, : --
 - (b) Balance area for diversion alongwith map :

Mining	Ac.1148.61=	465.02 ha
Safety Zone	Ac. 100.29=	40.60 ha
	<u>Ac. 1248.90=</u>	<u>505.62 ha</u>

 - (i) Revenue Forest (In Acre/Hect) : Ac. 411.05/ 166.41 Ha
 - (ii) Reserved Forest (In Acre/Hect) : Ac. 837.85/ 339.21 Ha
- II. If No, Joint field verification by Revenue & Forest personnel regarding Forest Right claim, if any, for individual/ Community in the proposed diversion area : Joint field enquiry conducted. No such claim exists within the proposed diversion area. But an area of Ac. 1.47 is under encroachment

8. a) Whether proposal for such diversion of Forest land have been placed before each of the Gram Sabha of Forest Dwellers who are eligible under Forest Right Act & details of the Project and its Implications have been explained to them in local language. : YES
- b) Whether such discussion and decision on Such proposal had taken place with a quorum of minimum 50% of members of the Gram Sabha present or not. : YES
- c) Whether rights of Primitive Tribals Groups and pre-agricultural community have been specifically safe guarded as per section 3(1)(e) of Forest Right Act. : YES
- d) Whether the diversion of forest land for facilities managed by Government as required u/s 3 (2) of the Forest Right Act (if any) have been completed and that the Gramsabha has consented to it. : No such claim exist within the applied area for diversion

Documents to be enclosed

9. a) Proposed land schedule and Map for Diversion
- b) Gramsabha Resolution in vernacular language and English translation
- c) Any other documents.

10. Remarks:

M/s. SAIL, Bolani Ores Mines has applied for compliance of Ac.1250.37/ 506.22 Ha (Ac.1150.08/ 465.62 ha for Mining purpose and Ac.100.29/40.60 ha for Safety Zone). On enquiry it is found that Ac.1.47/ 0.60 ha. is under encroachment. Hence recommended for issue of compliance certificate under Forest Right Act, 2006 for diversion of forest land measuring (Ac. 1148.61/ 465.02 ha for Mining Purpose and Ac.100.29/ 40.60 ha for Safety Zone) totaling to Ac.1248.90/ 505.62 ha for non forest purpose i.e. Mining purpose in village Bolani, Balagoda, Limtur and Karo R.F. of Bolani Ores Mines of M/s. SAIL, Bolani Ores Mines.

Chandran Zohar Hindu
Kausalya Vatra

Signature of President/Secretary, F.R.C

Devi
5/10/13
Signature of the
Range Officer
RANGE OFFICE, BARBIL

[Signature]
5/10/13
Signature of the
Tahasildar, Barbil
TAHASILDAR
BARBIL

[Signature]
Sub-Collector
Champua

FORMAT - I
Details of Revenue Forest Lands for diversion (supported by Map in Duplicate)

Sl.No.	Name of the Village	Total extent of forest Land for diversion	Remarks
1.	Bolani	Ac. 103.95	Revenue Forest Land
2.	Balagoda	Ac. 141.85	-do-
3.	Limitur	Ac. 166.72	-do-
	Total	Ac. 412.52 / 167.01 Ha	
4	Karo R. F.	Ac. 837.85/ 339.21 Ha	Reserved Forest
	Grand Total	Ac .1250.37/ 506.22 Ha	

FORMAT -II
A) For Revenue Forest Land (Forest Right Claims)

Mouza	Name of The claimant under F.R.Act	Khata No	Plot No.	Area (Ac)	Whether approved in FRC	Whether approved in SDLC	Whether approved in Dist Level Committee	Remarks
Balagoda	-	96	821	0.140	Nil	Nil	Nil	Under Encroachment
		96	1131	0.240	-	-	-	-do-
		96	1132	0.120	-	-	-	-do-
		96	1134	0.040	-	-	-	-do-
		96	1135	0.380	-	-	-	-do-
		96	1136	0.250	-	-	-	-do-
		96	1137	0.300	-	-	-	-do-
	Total			1.470				

FORMAT-III
B) for Reserved Forest Land) Forest Right Claims)

Mouza	Name of The claimant under F.R.Act	Khata No	Plot No.	Area (Ac)	Whether approved in FRC	Whether approved in SDLC	Whether approved in Dist Level Committee	Remarks
Nil-	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

[Signature]
 5/11/13
 Forest Range Office
BARBIL RANGE, BARBIL

[Signature]
 7/10/13
 Tahasildar, Barbil
**TAHASILDAR
 BARBIL**

VERIFICATION CERTIFICATE

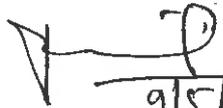
1. Certified that more than 50% of voters of village **Bolani** have attended the Gram Sabha and signed in the resolution. **634** Voters were present in the Gram Shabha out of **1221**.
2. Certified that Sl. No. of Electoral Roll has been mentioned against the signature/L.T.I. of Gram Sabha resolution.
3. Verified the genuineness of voters, who put the signature/L.T.I. on the resolution of Gram Sabha, with reference to the Electoral roll of village **Bolani** and found correct.
4. Certified that there is no claim either individual or community on the forest land proposed for diversion.


TAHASILDAR, BARBIL
TAHASILDAR
BARBIL


~~Sub-Collector
Champurā~~

VERIFICATION CERTIFICATE

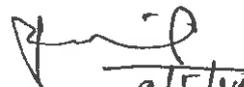
1. Certified that more than 50% of voters of village **Balagoda** have attended the Gram Sabha and signed in the resolution. **1783** Voters were present in the Gram Shabha out of **3263**.
2. Certified that Sl. No. of Electoral Roll has been mentioned against the signature/L.T.I. of Gram Sabha resolution.
3. Verified the genuineness of voters, who put the signature/L.T.I. on the resolution of Gram Sabha, with reference to the Electoral roll of village **Balagoda** and found correct.
4. Certified that there is no claim either individual or community on the forest land proposed for diversion.


9/5/14
TAHASILDAR, BARBIL
TAHASILDAR
BARBIL


Sub-Collector
Chambua

VERIFICATION CERTIFICATE

1. Certified that more than 50% of voters of village **Nimtur** have attended the Gram Sabha and signed in the resolution. **83** Voters were present in the Gram Shabha out of **101**.
2. Certified that Sl. No. of Electoral Roll has been mentioned against the signature/L.T.I. of Gram Sabha resolution.
3. Verified the genuineness of voters, who put the signature/L.T.I. on the resolution of Gram Sabha, with reference to the Electoral roll of village **Nimtur** and found correct.
4. Certified that there is no claim either individual or community on the forest land proposed for diversion.


9/5/19
TAHASILDAR, BARBIL
TAHASILDAR
BARBIL


Sub-Collector
Champua

ANNEXURE - VII

ଗ୍ରାମ - ବଲାଣି
ତା ୨୧-୧୦-୨୦୧୧ ରିଖ
ସ୍ଥାନ-ବଲାଣି ବସ୍ତି
ସମୟ - ପୂର୍ବାହ୍ନ ୧୧ ଘଣ୍ଟା.

ଅର୍ଥାତ୍ ତା ୨୧-୧୦-୨୦୧୧ରଖ ଶୁକ୍ରବାର ଦିନ ବଲାଣି ଗ୍ରାମରେ ପୂର୍ବାହ୍ନ ୧୧ ଘଣ୍ଟା ସମୟରେ ବଲାଣି ଗ୍ରାମ ପଞ୍ଚାୟତର ସରପଞ୍ଚ ଗ୍ରାମତୀ ହେମଲତା ସିଂ ସଭାପତିତ୍ଵରେ ଏକ ଗ୍ରାମସଭା ଅନୁଷ୍ଠିତ ହୋଇଥିଲା । ଉକ୍ତ ସଭାରେ ଗ୍ରାମ ପଞ୍ଚାୟତର ନିର୍ବାଚିତ ପ୍ରତିନିଧି , ବଲାଣି ଗ୍ରାମ ପଞ୍ଚାୟତ ନିର୍ବାହୀ ଅଧିକାରୀ, ଫରେଷ୍ଟ ରାଇଟ୍ କମିଟିର ସଦସ୍ୟ ଓ ଗ୍ରାମର ୬୦ ପ୍ରତିଶତରୁ ଊର୍ଦ୍ଧ୍ଵ ଭୋଟର ଯୋଗ ଦେଇଥିଲେ ।

ପ୍ରସ୍ତାବ - ଗ୍ରାମସଭାର ଉଦ୍ଦେଶ୍ୟ ସଂପର୍କରେ ସରପଞ୍ଚ ମହାଶୟା ବିଶ୍ଵ ଭାବରେ ଆଲୋଚନା କରିଥିଲେ । ତତ୍ଵସିଲ୍ଦାର ବଡ଼ବିଲଙ୍କ ପତ୍ରସଂଖ୍ୟା ୨୯୮୯/ତା ୧୭-୦୮-୨୦୧୧ରଖ ଅନୁଯାୟୀ ବଲାଣୀ ଓ ବାଲାଗୋଡ଼ା ଗ୍ରାମର କାରୋ ସଂରକ୍ଷିତ ଜଙ୍ଗଲ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୧୧୫୨.୫୮ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମି (ସେଫଟି ଜୋନ୍ ୭୩.୨ ହେକ୍ଟର କୁ ମିଶାଇ ୧୨୨୫.୭୮ ହେକ୍ଟର) ର ତାଇଭର୍ସନ ଓ ପତ୍ରସଂଖ୍ୟା ୩୩୦୧/ତା ୧୨-୦୯-୨୦୧୧ ରିଖ ଅନୁଯାୟୀ ବଲାଣୀ, ବାଲାଗୋଡ଼ା ଓ ନିମତୁର୍ ଗ୍ରାମର କାରୋ ସଂରକ୍ଷିତ ଜଙ୍ଗଲ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୫୦୬.୨୨ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମିର ତାଇଭର୍ସନ କରାଯାଇ ବଲାଣୀ ଓର୍ସ ମାଇନ୍ସ ଦ୍ଵାରା ଖଣି ଖନନ,କାରଖାନା ଓ ଅନ୍ୟାନ୍ୟ ଆନୁସଙ୍ଗିକ କାର୍ଯ୍ୟ ପାଇଁ ବ୍ୟବହାର ସକାଶେ ଉପରୋକ୍ତ ଜଙ୍ଗଲ ଜମିକୁ ଅଣଜଙ୍ଗଲ ଜମିକୁ ପରିବର୍ତ୍ତନ କରାଯାଇ ଆପତ୍ତି ଅଭିଯୋଗ ନଥିବା ପ୍ରମାଣପତ୍ର ଦେବା ସଂପର୍କେ ଉଲ୍ଲେଖ ଥିବାରୁ ଉପରୋକ୍ତ ଦୁଇଗୋଟି ଚିଠି ଉପସ୍ଥିତ ଗ୍ରାମବାସୀଙ୍କୁ ପଢ଼ି ଶୁଣାଇ ଦିଆଗଲା ଓ ଗ୍ରାମବାସୀମାନଙ୍କର ମତାମତ ଆହ୍ଵାନ କରାଯାଇଥିଲା । ଉକ୍ତତାଇଭର୍ସନ ପ୍ରସ୍ତାବର ଉଦ୍ଦେଶ୍ୟ ଏବଂ ତାର କାର୍ଯ୍ୟକାରୀତା ତଥା କ୍ଷତିପୂରଣ ଓ ସୁଧାର ବ୍ୟବସ୍ଥା ସମ୍ବନ୍ଧରେ ଜଙ୍ଗଲ ସଂରକ୍ଷଣ ଆଇନ୍-୧୯୮୦ ର ନିୟମାବଳୀ ପରିପ୍ରେକ୍ଷାରେ ଗ୍ରାମସଭାରେ ବିଶ୍ଵ ଭାବରେ ଆଲୋଚନା କରାଯାଇଥିଲା ।

ଉପରୋକ୍ତ ଜଙ୍ଗଲ ଜମିର ତାଇଭର୍ସନ ପ୍ରଯୋଜାକୁ ଆଖିଆଗରେ ରଖି ଅନୁସୂଚିତ ଜନଜାତି ଓ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀଙ୍କର (ଜଙ୍ଗଲ ଅଧିକାର ସ୍ଵୀକୃତି) ଆଇନ୍-୨୦୦୬,ନିୟମ୨୦୦୭ ର ସମସ୍ତ ନୀତି ଓ ନିୟମାବଳୀ ସମ୍ବନ୍ଧରେ ଗ୍ରାମସଭା ବୈଠକରେ ପୁଞ୍ଜୀନୁପୁଞ୍ଜ ଭାବରେ ଅନୁଧ୍ୟାନ କରାଯାଇଥିଲା । ଉକ୍ତ ତାଇଭର୍ସନ ପ୍ରସ୍ତାବିତ ଜଙ୍ଗଲଜମିରେ କୌଣସି ଅନୁସୂଚିତ ଜନଜାତି ଓ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀ ତଥା ଆଦିମ ଅଧିବାସୀ ଉକ୍ତ ଜଙ୍ଗଲଜମିରେ ଚାଷ, ଘର କିମ୍ବା ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବୃକ୍ଷି କରୁନାହାନ୍ତି ଏବଂ ଏଥି ମଧ୍ୟରେ କୌଣସି ଅନୁସୂଚିତ ଜନଜାତି ଏବଂ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀଙ୍କୁ ବ୍ୟକ୍ତିଗତ ବା ସାମୁହିକ ଜଙ୍ଗଲ ଅଧିକାର ସ୍ଵୀକୃତି ପ୍ରଦାନ କରାଯାଇନାହିଁ ।

ଉପସ୍ଥିତ ଥିବା ଗ୍ରାମବାସୀମାନେ ଖଣି କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦ୍ଵାରା ଆଞ୍ଚଳିକ ଉନ୍ନୟନ ପାଣ୍ଠିରୁ ପାରିପାର୍ଶ୍ଵିକ ଗ୍ରାମମାନଙ୍କରେ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ଓ ନିଯୁକ୍ତି ପ୍ରଦାନ କ୍ଷେତ୍ରରେ ଅବହେଳା କରିଥିବାରୁ କ୍ଷୋଭ ପ୍ରକାଶ କରିଥିଲେ । ଏହାର ଆଶୁ ସମାଧାନ ଦିଗରେ ନିମ୍ନମତେ ପଦକ୍ଷେପ ମାନ ଖଣି କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦ୍ଵାରା ନିଆଯିବାର ଖଣି କର୍ତ୍ତୃପକ୍ଷ ସଭାରେ ପ୍ରକାଶ କରିଥିଲେ ।

୧. ପାରିପାର୍ଶ୍ଵିକ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ସମ୍ପାଦନ ପାଇଁ ଏକ କମିଟି ଗଠନ କରାଯାଇ କମିଟିରେ ଗ୍ରାମପଞ୍ଚାୟତ ର ସରପଞ୍ଚ, ଜିଲ୍ଲାପରିଷଦ ସଭ୍ୟ ଓ ପଞ୍ଚାୟତ ସମିତି ସଭ୍ୟକୁ ରଖାଯାଇ ତାଙ୍କର ମତାମତ ଅନୁସାରେ ପାରିପାର୍ଶ୍ଵିକ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ସମ୍ପାଦନ କରାଯିବ ।

[Handwritten Signature]
Consd. P/2

୨. ନିୟୁତ୍ତି କ୍ଷେତ୍ରରେ କଣ୍ଟ୍ରୋଲ୍ ଲେବର ହିସାବରେ ନିଆଯାଇଥିବା ବ୍ୟକ୍ତିଙ୍କୁ ଠିକା ଶ୍ରମିକ ଭାବେ ବର୍ଷତମାମ କାର୍ଯ୍ୟରତ ରହିବା, ଏତଦ୍‌ବ୍ୟତିତ ଯେଉଁ ପରିବାରରେ କୌଣସି ବ୍ୟକ୍ତି ଆଦୌ କାର୍ଯ୍ୟ କରୁନାହାନ୍ତି, ସେହି ପରିବାରକୁ ବିହୀନ କରାଯାଇ ପୁରୁଷ କିମ୍ବା ମହିଳାଙ୍କୁ ଠିକା ଶ୍ରମିକ ଭାବେ କାର୍ଯ୍ୟ କରିବାପାଇଁ ଓ ଏହି ବ୍ୟକ୍ତିମାନଙ୍କର ଚାଲିକା ଗ୍ରାମ ପଞ୍ଚାୟତର ସରପଞ୍ଚଙ୍କ ଜରିଆରେ ଦିଆଯିବା ପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରକାଶ କରିଥିଲେ ।
୩. ଜମି ହରାଇଥିବା ପରିବାରଙ୍କ ସଦସ୍ୟଙ୍କୁ ସ୍ଥାୟୀ ରୂପେ ଚାକିରିରେ ନିୟୁତ୍ତି ଦିଆଯିବାପାଇଁ କମ୍ପାନୀର ନିୟମାନୁସାରେ ପଦକ୍ଷେପ ନିଆଯିବାକୁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଲେ ।
୪. ମ୍ୟାଟ୍ରିକ୍ ବା ତତୁଲ୍ୟ ଯୋଗ୍ୟତା ଥିବା ବ୍ୟକ୍ତି ବିଶେଷଙ୍କୁ କମ୍ପାନୀରେ ସ୍ଥାୟୀ ନିୟୁତ୍ତି ଦିଆଯିବା ପ୍ରକ୍ରିୟାରେ ଗ୍ରାମବାସୀଙ୍କୁ ଅଗ୍ରାଧିକାର ଦିଆଯିବାପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଲେ ।
୫. ଠିକା ଶ୍ରମିକ ଭାବେ (ଜବ୍ କଣ୍ଟ୍ରୋଲ୍) କଣ୍ଟ୍ରୋଲ୍ ଲେବରରେ କାର୍ଯ୍ୟକରୁଥିବା ସ୍ଥାନୀୟ ଗ୍ରାମବାସୀଙ୍କୁ କମ୍ପାନୀର ଆବଶ୍ୟକତା ଅନୁଯାୟୀ ସ୍ଥାୟୀ ନିୟୁତ୍ତି ପ୍ରକ୍ରିୟାରେ ଅଗ୍ରାଧିକାର ଦିଆଯିବାପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଇଥିଲେ ।

ଉପରୋକ୍ତ ପ୍ରତିଶ୍ରୁତି ଗୁଡ଼ିକର ପ୍ରକ୍ରିୟାକରଣ ୩ ମାସ ମଧ୍ୟରେ ଆବଶ୍ୟକ ଅନୁଯାୟୀ ପାଳନ କରାଯିବା ଦିଗରେ ଗ୍ରାମପଞ୍ଚାୟତ ର ନିର୍ବାଚିତ ପ୍ରତିନିଧିଙ୍କ ସହ ଆଲୋଚନା କରାଯାଇ ପଦକ୍ଷେପ ମାନ ନିଆଯିବା ସକାଶେ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ଉପସ୍ଥିତ ଥିବା ଗ୍ରାମବାସୀ ମାନଙ୍କୁ ଦୃଢ଼ ପ୍ରତିଶ୍ରୁତି ଦେଇଥିଲେ ।

ବିଶେଷ ଆଲୋଚନା ପର୍ଯ୍ୟାଲୋଚନା ପରେ ବଲାଣି , ବାଲାଗୋଡ଼ା , ନିମତୁର ଗ୍ରାମର କାର୍ଯ୍ୟ ସଂରକ୍ଷିତ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୧୨୨୫.୭୮ ହେକ୍ଟର ଓ ୫୦୨.୨୨ ହେକ୍ଟର ମିଶାଇ ମୋଟ ୧୭୩୨.୦୦ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମି ଉପରେ ମେସର୍ସ ସେଲ୍-ବଲାଣା ଓର୍ସ ମାଇନିଂ ଦ୍ୱାରା ଖଣି ଖନନ, କାରଖାନା ଓ ଅନ୍ୟାନ୍ୟ ଆନୁସଙ୍ଗିକ କାର୍ଯ୍ୟ ପାଇଁ ବ୍ୟବହାର କରାଗଲେ ଗ୍ରାମବାସୀଙ୍କର କୌଣସି ଆପତ୍ତି ଅଭିଯୋଗ ନଥିବା ପ୍ରମାଣପତ୍ର ଦିଆଯିବା ନିମନ୍ତେ ସର୍ବସମ୍ମତକ୍ରମେ ପ୍ରସ୍ତାବ ଗୃହୀତ ହୋଇ ବିଭାଗୀୟ କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦୃଷ୍ଟି ଆକର୍ଷଣ କରାଗଲା ଓ ଉକ୍ତ ଗ୍ରାମସଭାରେ ଉପସ୍ଥିତ ସମସ୍ତ ସଭ୍ୟଙ୍କର ସ୍ୱାକ୍ଷର ଏହାସହିତ ସଂଲଗ୍ନ କରାଗଲା ।

ସର୍ବଶେଷରେ ସଭାପତିଙ୍କୁ ଧନ୍ୟବାଦ ଅର୍ପଣ କରାଯାଇ ସଭାଭଙ୍ଗ କରାଗଲା ।

ସହଯୁକ୍ତ ଥି: ପ୍ରମାଣିକ
ମହା ପ୍ରମାଣିକ

Doibung
Executive Officer
BOLANI GRAM-PANCHAYAT

ସରପଞ୍ଚ
ବଲାଣି ଗ୍ରାମପଞ୍ଚାୟତ

Hemanta Singh
Sarapanch
Bolani Gram Panchayat
21/10/11

① *Kousalya Patra
Right
Forest Committee President

Samal Naik
Forest Right Committee, Secy

Rhemji Lal Das
Forest Right Committee member

Kumudini Naik
KUMUDINI NAIK
ZILLA PARISHAD MEMBER
ZONE-26 DIST KEONJHAR

Japai Nam
Forest Right Committee
member

Lachan Naik - Forest Right Committee member

दासजी नायक
Forest Right Committee member

बिपिन

KISHNA GUYA - ward member

Prinod Kumar Mahakud - ward member

Nimiga Lagan - ward member

~~Pranab Das - ward member~~

Georanga Sethy - Naib Sarapanch

बिपिन - ward member

बिपिन - ward member

Pirrad. Nis - ward member

par she munda - ward member

GRAMASABHA MEETING

Village : Bolani

Date : 01-10-2011

Place : Bolani Village

Time : 11.00 AM

Today on 01-10-2011, Friday a Gramsabha was conducted under the chairmanship of the Sarpanch of Bolani Grampanchayat Shrimati Hemalata Singh, in the village Bolani at 11.00 A.M. The elected representative of Grampanchayat, Grampanchayat Executive Officer, Bolani, Members of Forest Rights committee & more than 60% voters of Bolani village attended the above meeting .

Proposal - The Sarpanch discussed the objective of the Gramsabha in details . According to the letters of Tahasildar Barbil vide no 2989 dt 17-08-2011, -and vide no 3301 dt 12-09-2011, Gramsabha resolution will be submitted for the diversion proposals of M/s SAIL, Bolani for 1152.58 hecets forest land (including 73.2 hectares safety zone it comes to 1225.78 hecets forest land in total) coming under Karo RF and village/KF of Bolani and Balagoda Mouza, and for diversion of 506.22 hecets forest land coming under Karo RF and village/KF of Bolani , Balagoda and Limtur Mouza respectively, for Non Forest (Mining and allied Purpose) and the above two letters were read out to the villagers for obtaining their consent for the above said diversion proposals in view of submitting no-objection certificate . The aims and objectives of the above said diversion proposal was discussed in the above meeting in details in the context of ensuring compliance of Rules and Regulations of Forest Conservation Act 1980.

Keeping the proposals for diversion of the above said forest lands inside the Mining Leases in view, the provisions of Rules & Regulations of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act,2006,Rule 2007,were examined in details in the Gramasabha for ensuring their compliance . In the proposed forest diversion land, there is no agricultural land, residence and traditional business by any Scheduled Tribe and Traditional Forest Dwellers including primitive tribal groups & pre-agricultural communities . No lands and forest rights have been allotted to any individual or collective scheduled tribes and traditional forest dwellers .

The villagers expressed their dissatisfaction with the mines management for the negligence in utilising the developmental fund towards the peripheral developmental works of the villages and in employment process . To resolve the above issues , the Mines Authority informed the following measures :

1. Sarpanch, Zilla Parishad and Panchayat Members will be included in the committee to finalise the peripheral developmental works under CSR in the villages .
2. The villagers engaged in the contract labour will be put under annual contracts . Sarpanch of the Grampanchayat will submit a list of families with no working member to the management for subsequent engagement of contract labour on requirement .
3. Steps will be initiated for permanent employment of the land losers as per rules.

Contd. 8/2

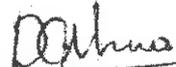
4. In the event of recruitment, to fill up vacancies of BOM natives of the peripheral villages having Matriculation or equivalent qualification will be given preference and consideration .
5. The villagers engaged in contract labour in the mines with Matriculation or equivalent qualification will be given preference and consideration in the recruitment process .

The Mine authority agreed to give priority to those local villagers who are working as contract labourers under job contracts during the recruitment process for permanent employment as per the requirement of the company .

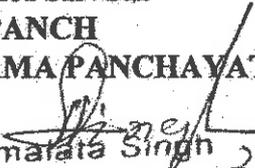
The Mine authority assured the villagers that necessary steps for implementation of the above commitments will be taken within 3 months after discussions with the elected representatives of Gram Panchayat .

After discussing all the aspects of the above said diversion proposals including benefits, compensatory and ameliorative measures, the village meeting unanimously endorsed the proposal and resolved in favour of the diversion of total 1732.00 hectares forest land involving 1225.78 hectares forest land in Bolani, Balagoda and Karo RF in one lease and 506.22 hectares forest land in Bolani, Balagoda, Limtur and Karo RF in the other lease of M/s SAIL, Bolani, for carrying out mining, factories and other allied activities on the above forest land and unanimously agreed for grant of Forest Clearance and No Objection Certificate .

At last , the meeting ended with the vote of thanks to the chair .


Executive Officer
BOLANI GRAM PANCHAYAT

HEMALATA SINGH
SARPANCH
BOLANI GRAMA PANCHAYAT


Hemalata Singh
Sarapanch
Bolani Gram Panchayat 21/10/11

ଗ୍ରାମ - ବାଲଗୋଡ଼ା
ତା ୧୭-୧୦-୨୦୧୧ ରିଖ
ସ୍ଥାନ-ବାଲଗୋଡ଼ା କୋଡୁବନ୍ଧି
ସମୟ - ପୂର୍ବାହ୍ନ ୧୦ ଘଣ୍ଟା.

ANNEXURE- X

ଅନ୍ୟ ତା ୧୭-୧୦-୨୦୧୧ରିଖ ସୋମବାର ଦିନ ବାଲଗୋଡ଼ା ଗ୍ରାମର କୋଡୁବନ୍ଧି ଠାରେ ପୂର୍ବାହ୍ନ ୧୦ ଘଣ୍ଟା ସମୟରେ ବାଲଗୋଡ଼ା ଗ୍ରାମ ପଞ୍ଚାୟତର ସରପଞ୍ଚ ଶ୍ରୀଯୁକ୍ତ ଗୌରାଙ୍ଗ ମୁଣ୍ଡାଙ୍କ ସଭାପତିତ୍ୱରେ ଏକ ଗ୍ରାମସଭା ଅନୁଷ୍ଠିତ ହୋଇଥିଲା । ଉକ୍ତ ସଭାରେ ଗ୍ରାମ ପଞ୍ଚାୟତର ନିର୍ବାଚିତ ପ୍ରତିନିଧି , ଯୋଡା ଗ୍ରାମ ପଞ୍ଚାୟତ ନିର୍ବାହୀ ଅଧିକାରୀ, ଫରେଙ୍କ ରାଇଟ୍ କମିଟିର ସଦସ୍ୟ ଓ ଗ୍ରାମର ୬୦ ପ୍ରତିଶତରୁ ଊର୍ଦ୍ଧ୍ୱ ଭୋଟର ଯୋଗ ହେଇଥିଲେ ।

ପ୍ରସ୍ତାବ - ଗ୍ରାମସଭାର ଉଦ୍ଦେଶ୍ୟ ସଂପର୍କରେ ସରପଞ୍ଚ ମହାଶୟ ବିଶ୍ୱ ଡାବରେ ଆଲୋଚନା କରିଥିଲେ । ତଦୁପଲକ୍ଷ୍ୟରେ ବଡ଼ବିଲଙ୍କ ପତ୍ରସଂଖ୍ୟା ୨୯୮୯/ତା ୧୭-୦୮-୨୦୧୧ରିଖ ଅନୁଯାୟୀ ବଲାଣୀ ଓ ବାଲଗୋଡ଼ା ଗ୍ରାମର କାରୋ ସଂରକ୍ଷିତ ଜଙ୍ଗଲ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୧୧୫୨.୫୮ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମି (ସେପଟି ଜୋନ୍ ୭୩.୨ ହେକ୍ଟର କୁ ମିଶାଇ ୧୨୨୫.୭୮ ହେକ୍ଟର) ର ତାଇଭର୍ସନ ଓ ପତ୍ରସଂଖ୍ୟା ୩୩୦୧/ତା ୧୨-୦୯-୨୦୧୧ ରିଖ ଅନୁଯାୟୀ ବଲାଣୀ, ବାଲଗୋଡ଼ା ଓ ନିମତୁର ଗ୍ରାମର କାରୋ ସଂରକ୍ଷିତ ଜଙ୍ଗଲ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୫୦୬.୨୨ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମିର ତାଇଭର୍ସନ କରାଯାଇ ବଲାଣୀ ଓ ସି ମାଇନ୍ସ ଦ୍ୱାରା ଖଣି ଖନନ,କାରଖାନା ଓ ଅନ୍ୟାନ୍ୟ ଆନୁସଙ୍ଗିକ କାର୍ଯ୍ୟ ପାଇଁ ବ୍ୟବହାର ସକାଶେ ଉପରୋକ୍ତ ଜଙ୍ଗଲ ଜମିକୁ ଅଣଜଙ୍ଗଲ ଜମିକୁ ପରିବର୍ତ୍ତନ କରାଯାଇ ଆପଣ୍ଡି ଅଭିଯୋଗ ନଥିବା ପ୍ରମାଣପତ୍ର ଦେବା ସଂପର୍କେ ଉଲ୍ଲେଖ ଥିବାରୁ ଉପରୋକ୍ତ ଦୁଇଗୋଟି ଚିଠି ଉପସ୍ଥିତ ଗ୍ରାମବାସୀଙ୍କୁ ପଢ଼ି ଶୁଣାଇ ଦିଆଗଲା ଓ ଗ୍ରାମବାସୀମାନଙ୍କର ମତାମତ ଆହ୍ୱାନ କରାଯାଇଥିଲା । ଉକ୍ତତାଇଭର୍ସନ ପ୍ରସ୍ତାବର ଉଦ୍ଦେଶ୍ୟ ଏବଂ ତାର କାର୍ଯ୍ୟକାରିତା ତଥା କ୍ଷତିପୂରଣ ଓ ସୁଧାର ବ୍ୟବସ୍ଥା ସମ୍ବନ୍ଧରେ ଜଙ୍ଗଲ ସଂରକ୍ଷଣ ଆଇନ୍-୧୯୮୦ ର ନିୟମାବଳୀ ପରିପ୍ରେଷାରେ ଗ୍ରାମସଭାରେ ବିଶ୍ୱ ଡାବରେ ଆଲୋଚନା କରାଯାଇଥିଲା ।

ଉପରୋକ୍ତ ଜଙ୍ଗଲ ଜମିର ତାଇଭର୍ସନ ପ୍ରଯୋଜାକୁ ଆଖିଆଗରେ ରଖି ଅନୁସୂଚିତ ଜନଜାତି ଓ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀଙ୍କର(ଜଙ୍ଗଲ ଅଧିକାର ସ୍ୱୀକୃତି) ଆଇନ୍-୨୦୦୬,ନିୟମ୨୦୦୭ ର ସମସ୍ତ ନୀତି ଓ ନିୟମାବଳୀ ସମ୍ବନ୍ଧରେ ଗ୍ରାମସଭା ବୈଠକରେ ପୁଞ୍ଜୀନୁପୁଞ୍ଜି ଭାବରେ ଅନୁଧ୍ୟାନ କରାଯାଇଥିଲା । ଉକ୍ତ ତାଇଭର୍ସନ ପ୍ରସ୍ତାବିତ ଜଙ୍ଗଲଜମିରେ କୌଣସି ଅନୁସୂଚିତ ଜନଜାତି ଓ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀ ତଥା ଆଦିମ ଅଧିବାସୀ ଉକ୍ତ ଜଙ୍ଗଲଜମିରେ ତାଣ, ଘର କିମ୍ବା ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବୃତ୍ତି କରୁନାହାନ୍ତି ଏବଂ ଏଥି ମଧ୍ୟରେ କୌଣସି ଅନୁସୂଚିତ ଜନଜାତି ଏବଂ ଅନ୍ୟାନ୍ୟ ପାରମ୍ପରିକ ବନବାସୀଙ୍କୁ ବ୍ୟକ୍ତିଗତ ବା ସାମୁହିକ ଜଙ୍ଗଲ ଅଧିକାର ସ୍ୱୀକୃତି ପ୍ରଦାନ କରାଯାଇନାହିଁ ।

ଉପସ୍ଥିତ ଥିବା ଗ୍ରାମବାସୀମାନେ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ଙ୍କ ଦ୍ୱାରା ଆଞ୍ଚଳିକ ଉନ୍ନୟନ ପାଣ୍ଠିରୁ ପାରିପାର୍ଶ୍ୱିକ ଗ୍ରାମମାନଙ୍କରେ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ଓ ନିୟୁକ୍ତି ପ୍ରଦାନ କ୍ଷେତ୍ରରେ ଅବହେଳା କରିଥିବାରୁ କ୍ଷୋଭ ପ୍ରକାଶ କରିଥିଲେ । ଏହାର ଆଶୁ ସମାଧାନ ଦିଗରେ ନିମ୍ନମତେ ପଦକ୍ଷେପ ମାନ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ଙ୍କ ଦ୍ୱାରା ନିଆଯିବାର ଖଣି କର୍ତ୍ତୃପକ୍ଷ ସଭାରେ ପ୍ରକାଶ କରିଥିଲେ ।

୧. ପାରିପାର୍ଶ୍ୱିକ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ସମ୍ପାଦନ ପାଇଁ ଏକ କମିଟି ଗଠନ କରାଯାଇ କମିଟିରେ ଗ୍ରାମପଞ୍ଚାୟତ ର ସରପଞ୍ଚ,ଢିଲ୍ଲୀପରିଷଦ ସଭ୍ୟ ଓ ପଞ୍ଚାୟତ ସମିତି ସଭ୍ୟକୁ ରଖାଯାଇ , ତାଙ୍କର ମତାମତ ଅନୁସାରେ ପାରିପାର୍ଶ୍ୱିକ ଉନ୍ନୟନ କାର୍ଯ୍ୟ ସମ୍ପାଦନ କରାଯିବ ।

Executive Officer
Balasode G. P.

SARPANCH
Balasode Gram Panchayat
P.O. Bolani, Dist-Keonjhar

୨. ନିୟୁତ୍ତ ଚଷମାକୁ କଣ୍ଟ୍ରୋଲ୍ କଲେବର ହିସାବରେ ନିର୍ଦ୍ଦାୟାକରଣ ବ୍ୟବସ୍ଥା ପକ୍ଷରୁ ଠିକା ଗ୍ରାମୀଣ ଭାବେ ବ୍ୟବହାର କାର୍ଯ୍ୟରେ ରହିବା, ଏତଦ୍ ବ୍ୟତିତ ଯେଉଁ ପରିବାରରେ କୌଣସି ବ୍ୟକ୍ତି ଆଦୌ କାର୍ଯ୍ୟ କରୁନାହାନ୍ତି ସେହି ପରିବାରକୁ ଚିହ୍ନିତ କରାଯାଇ ପୁରୁଷ କିମ୍ବା ମହିଳାଙ୍କୁ ଠିକା ଗ୍ରାମୀଣ ଭାବେ କାର୍ଯ୍ୟ କରିବା ପାଇଁ ଓ ଏହିବ୍ୟକ୍ତିଙ୍କର ତାଲିକା ଗ୍ରାମ ପଞ୍ଚାୟତ ର ସରପଞ୍ଚଙ୍କ କରିଆରେ ଦିଆଯିବା ପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରକାଶ କରିଥିଲେ ।

୩. ଜମି ହରାଇଥିବା ପରିବାରଙ୍କ ସହଯୋଗୀ ସ୍ତରୀ ରୂପେ ଚାକିରିରେ ନିଯୁକ୍ତି ଦିଆଯିବାପାଇଁ କମ୍ପାନୀର ନିୟମାନୁସାରେ ପଦକ୍ଷେପ ନିଆଯିବାକୁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଲେ ।

୪. ମ୍ୟାଟ୍ରିକ୍ ବା ତତୁଲ୍ୟ ଯୋଗ୍ୟତା ଥିବା ବ୍ୟକ୍ତି ବିଶେଷଙ୍କୁ କମ୍ପାନୀରେ ସ୍ଥାୟୀ ନିଯୁକ୍ତି ଦିଆଯିବା ପ୍ରକ୍ରିୟାରେ ଗ୍ରାମବାସୀଙ୍କୁ ଅଗ୍ରାଧିକାର ଦିଆଯିବାପାଇଁ ଖଣି କର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଲେ ।

୫. ଠିକା ଗ୍ରାମୀଣ ଭାବେ (ଜବ୍ କଣ୍ଟ୍ରାକ୍ଟ୍) କଣ୍ଟ୍ରାକ୍ଟ୍ ଲେବର୍ ରେ କାର୍ଯ୍ୟକରୁଥିବା ସ୍ଥାନୀୟ ଗ୍ରାମବାସୀଙ୍କୁ କମ୍ପାନୀର ଆବଶ୍ୟକତା ଅନୁଯାୟୀ ସ୍ଥାୟୀ ନିଯୁକ୍ତି ପ୍ରକ୍ରିୟାରେ ଅଗ୍ରାଧିକାର ଦିଆଯିବାପାଇଁ ଖଣିକର୍ତ୍ତୃପକ୍ଷ ପ୍ରତିଶ୍ରୁତି ଦେଇଥିଲେ ।

ଉପରୋକ୍ତ ପ୍ରତିଶ୍ରୁତି ଗୁଡ଼ିକର ପ୍ରକ୍ରିୟାକରଣ ୩ ମାସ ମଧ୍ୟରେ ଆବଶ୍ୟକ ଅନୁଯାୟୀ ପାଳନ କରାଯିବା ଦିଗରେ ଗ୍ରାମପଞ୍ଚାୟତ ର ନିର୍ଦ୍ଦିଷ୍ଟ ପ୍ରତିନିଧିଙ୍କ ସହ ଆଲୋଚନା କରାଯାଇ ପଦକ୍ଷେପ ମାନ ନିଆଯିବା ସକାଶେ ଖଣିକର୍ତ୍ତୃପକ୍ଷ ଉପସ୍ଥିତ ଥିବା ଗ୍ରାମବାସୀ ମାନଙ୍କୁ ଦୃଢ଼ ପ୍ରତିଶ୍ରୁତି ଦେଇଥିଲେ ।

ବିଶେଷ ଆଲୋଚନା, ପର୍ଯ୍ୟାଲୋଚନା ପରେ ବଲାଶି, ବାଲାଗୋଡ଼ା ର କାରୋ ସଂରକ୍ଷିତ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୧୨୨୫.୭୮ ହେକ୍ଟର ଏବଂ ବଲାଶି, ବାଲାଗୋଡ଼ା ଓ ନିମତୁର ଗ୍ରାମ ର କାରୋ ସଂରକ୍ଷିତ ଓ ଗ୍ରାମ୍ୟ ଜଙ୍ଗଲ ଅନ୍ତର୍ଗତ ୫୦୬.୨୨ ହେକ୍ଟର ମିଶାଇ ମୋଟ ୧୭୩୨.୦୦ ହେକ୍ଟର ଜଙ୍ଗଲ ଜମି ଉପରେ ମେସର୍ସ ସେଲ୍-ବଲାଶି ଓର୍ସ ମାଇନ୍ସ ଦ୍ୱାରା ଖଣି ଖନନ, କାରଖାନା ଓ ଅନ୍ୟାନ୍ୟ ଆନୁସଙ୍ଗିକ କାର୍ଯ୍ୟ ପାଇଁ ବ୍ୟବହାର କରାଗଲେ ଗ୍ରାମବାସୀ ଙ୍କର କୌଣସି ଆପଣି ଅଭ୍ୟୋଗ ନଥିବା ପ୍ରମାଣପତ୍ର ଦିଆଯିବା ନିମନ୍ତେ ସର୍ବ ସମ୍ମତିକ୍ରମେ ପ୍ରସ୍ତାବ ଗୃହୀତ ହୋଇ ବିଭାଗୀୟ କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦୃଷ୍ଟି ଆକର୍ଷଣ କରାଗଲା ଓ ଉକ୍ତ ଗ୍ରାମସଭାରେ ଉପସ୍ଥିତ ସମସ୍ତ ସଭ୍ୟଙ୍କର ସ୍ୱାକ୍ଷର ଏହାସହିତ ସଂଲଗ୍ନ କରାଗଲା ।

ସର୍ବଶେଷରେ ସଭାପତିଙ୍କୁ ଧନ୍ୟବାଦ ଅର୍ପଣ କରାଯାଇ ସଭାଭଙ୍ଗ କରାଗଲା

Narentra P. Pramanik
General Manager
SAIL, Bolani open Mines

SARPANCH
Balagoda Gram Panchayat
Po. Bolani, Dist-Keonjhar
ବାଲାଗୋଡ଼ା ଗ୍ରାମପଞ୍ଚାୟତ

Chandra Mohan Mandal
Forest Right Committee President

[Signature]
Executive Officer
Balagoda G.P.

② *[Signature]*
Forest Right Committee Secy

Kumudini Nayak
KUMUDINI NAYAK
ZILLA PARISHAD MEMBER
ZONE-26 DIST KEONJHAR

[Signature]
Nayak, Sarpanch
Balagoda G.P.

Sakumoni Karna
P.S Member
Balagoda G.P.

Birkal Manda

Surek chandra Naik

Forest committee membership

Suri runda ward No 16
ward member

Sailendri Naik

Sobha karda
ward member no - 17

* Rajojee Manda

Durgadhar Gaudel

Forest membership

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

Ward membership

ଓଡ଼ିଆ ଗୋପାଳ

ward membership no 13

Jayanti Mior Manda
ward membership no - 14

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

ward membership 21

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

ward membership - 10

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

ward membership - 11

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

ward member - 9

Azad Salun

Ward no - 6

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ - forest committee

* Meghana Patra

ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀ

Sarajan Manda

Rajaram Munda

GRAMASABHA MEETING ANNEXURE - XI

Village : Balagoda
Date : 17-10-2011
Place : Balagoda Kolha Basti ✓
Time : 10.00 AM

Today on 17-10-2011, Monday a Gramsabha was conducted under the chairmanship of the Sarpanch of Balagoda Grampanchayat Shri Gouranga Munda, in the village Balagoda at Kolha Basti at 10.00 AM. The elected representative of Grampanchayat, Grampanchayat Executive Officer, Joda, Members of Forest Rights committee & more than 60% voters of Balagoda village attended the above meeting.

Proposal - The Sarpanch discussed the objective of the Gramsabha in details. According to the letters of Tahasildar Barbil vide no 2989 dt 17-08-2011, and vide no 3301 dt 12-09-2011, Gramsabha resolution will be submitted for the diversion proposals of M/s SAIL, Bolani for 1152.58 hecets forest land (including 73.2 hectares safety zone it comes to 1225.78 hecets forest land in total) coming under Karo RF and village/KF of Bolani and Balagoda Mouza, and for diversion of 506.22 hecets forest land coming under Karo RF and village/KF of Bolani, Balagoda and Limtur Mouza respectively, for Non Forest (Mining and allied Purpose) and the above two letters were read out to the villagers for obtaining their consent for the above said diversion proposals in view of submitting no-objection certificate. The aims and objectives of the above said diversion proposal was discussed in the above meeting in details in the context of ensuring compliance of Rules and Regulations of Forest Conservation Act 1980.

Keeping the proposals for diversion of the above said forest lands inside the Mining Leases in view, the provisions of Rules & Regulations of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, Rule 2007, were examined in details in the Gramasabha for ensuring their compliance. In the proposed forest diversion land, there is no agricultural land, residence and traditional business by any Scheduled Tribe and Traditional Forest Dwellers including primitive tribal groups & pre-agricultural communities. No lands and forest rights have been allotted to any individual or collective scheduled tribes and traditional forest dwellers.

The villagers expressed their dissatisfaction with the mines management for the negligence in utilising the developmental fund towards the peripheral developmental works of the villages and in employment process. To resolve the above issues, the Mines Authority informed the following measures:

1. Sarpanch, Zilla Parishad and Panchayat Members will be included in the committee to finalise the peripheral developmental works under CSR in the villages.
2. The villagers engaged in the contract labour will be put under annual contracts. Sarpanch of the Grampanchayat will submit a list of families with no working member to the management for subsequent engagement of contract labour on requirement.
3. Steps will be initiated for permanent employment of the land losers as per rules.

4 In the event of recruitment, to fill up vacancies of BOM natives of the peripheral villages having Matriculation or equivalent qualification will be given preference and consideration .

5. The villagers engaged in contract labour in the mines with Matriculation or equivalent qualification will be given preference and consideration in the recruitment process .

The Mine authority agreed to give priority to those local villagers who are working as contract labourers under job contracts during the recruitment process for permanent employment as per the requirement of the company .

The Mine authority assured the villagers that necessary steps for implementation of the above commitments will be taken within 3 months after discussions with the elected representatives of Gram panchayat .

After discussing all the aspects of the above said diversion proposals including benefits, compensatory and ameliorative measures, the village meeting unanimously endorsed the proposal and resolved in favour of the diversion of total 1732.00 hectares forest land involving 1225.78 hectares forest land in Bolani, Balagoda and Karo RF in one lease and 506.22 hectares forest land in Bolani, Balagoda, Limtur and Karo RF in the other lease of M/s SAIL, Bolani, for carrying out mining, factories and other allied activities on the above forest land and unanimously agreed for grant of Forest Clearance and No Objection Certificate .

At last , the meeting ended with vote of thanks to the chair .


SARPANCH
Balagoda Gram Panchayat
GOURANGA MUNDA
Po. Bolani, Dist-Keonjhar
SARPANCH
BALAGODA GRAMA PANCHAYAT

FORM NO.II
(for projects other than linear projects)
Government of Odisha
Office of the District Collector, Keonjhar

No. _____ Dt. _____

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MoEF), Government of India's letter No.11-9/98-FC(Pt) dt.3rd August, 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers(Recognition of Forest Rights Act), 2006 ('FRA' for short) on the forest land proposed to be diverted for non-forest purposes, it is certified that **505.62** hectares of forest land proposed to be diverted in favour of **Steel Authority of India Ltd.(SAIL)** for the purpose of mining activities in Bolani Ores Mines in Keonjhar District falls within jurisdiction of Bolani(42.08ha.),Balagoda(56.83 ha), Limitur(67.50ha.) villages and Karo R.F(339.21ha.) in Barbil Tahasil.

It is further certified that

- (a) the complete process of identification and settlement of rights under the FRA has been carried out for the entire **505.62** hectares of forest land proposed for diversion. A copy of records of all consultations and meetings of the Forest Rights Committee(s), Gram Sabha(s), Sub-Division Level Committee(s) and the District level Committee are enclosed as annexure -I to annexure -XXV
- (b) the proposal for such diversion (with full details of the project and its implecations, in vernacular/local language) have been placed before each concerned Gram Sabha(s) of forest dwellers who are eligible under the FRA.
- (c) the concerned Gram Sabha has certified that all formalities/processes under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and the details of proposed diversion. A copy of certificate issued by the Gram Sabha of village-Bolani,Balagoda &Nimtur. is enclosed as annexure -VIII, X &XXI
- (d) discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabha present.
- (e) No such facilites managed by the Government as required under 3(2) of the FRA Requiring diversion of forest land exist within the applied area.
- (f) the rights of Primitive Tribal Groups and Pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA.


(Dr.N. Thirumala Naik)
Collector, Keonjhar

N.B:-i) This certificate is issued as per letter No.17446/F&E/Dt.21.8.2013 of Addl. Secretary to Govt. F&E Department, Odisha and D.O.letter No.17593/ CS/ F&E/dt.24.10.2009 and letter No.27799/F&E/dt.30.9.2010 of the Chief Secretary,Odisha

- ii) This certificate is issued subject to fulfillment of all other statutory provisions to operate the mines.

Annexure-XIX

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

Village-Balagoda

Sl. No.	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area Applied for diversion in Ha	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
1	2	96	RAKHITA	ROAD	3.93	0.54	1	Sala Jungle
2	18	38	BOLANI ORES MINES	GHARBARI	2.65	1.07	-	Not Available
3	21	38	BOLANI ORES MINES	ROAD	0.72	0.29	1,2,6	Jungle, Goda III, Goda III
4	24	96	RAKHITA	PATITA	15.53	5.53	1	Sala Jungle
5	25	96	RAKHITA	GHARBARI	0.50	0.18	1	Sala Jungle
6	26	96	RAKHITA	ROAD	0.62	0.24	1	Sala Jungle
7	27	96	RAKHITA	PATITA	2.09	0.84	1	Sala Jungle
8	32	96	RAKHITA	ROAD	0.25	0.09	1	Sala Jungle
9	33	96	RAKHITA	PATITA	2.57	1.04	1	Sala Jungle
10	76	38	BOLANI ORES MINES	ROAD	0.16	0.06	52/2/499	Not Available
11	104	38	BOLANI ORES MINES	KARAKHANA	1.10	0.45	35/494	Not Available
12	105	38	BOLANI ORES MINES	KARAKHANA	1.75	0.71	35/494	Not Available
13	107	38	BOLANI ORES MINES	GHARBARI	0.18	0.07	36/492	Not Available
14	146	96	RAKHITA	ROAD	0.60	0.17	39	Sala Jungle
15	147	96	RAKHITA	PATITA	1.92	0.55	39	Sala Jungle
16	148	96	RAKHITA	GHARBARI	0.16	0.06	39	Sala Jungle
17	153	96	RAKHITA	ROAD	0.11	0.04	39	Sala Jungle
18	154	96	RAKHITA	GHARBARI	0.36	0.13	39	Sala Jungle
19	155	96	RAKHITA	ROAD	0.11	0.04	39	Sala Jungle
20	156	96	RAKHITA	GHARBARI	0.17	0.06	39	Sala Jungle

1

* "Not Available", "Un-surveyed", "Not-mentioned" have been Considered as forest for diversion purpose

** Detailed as per authenticated Land schedule & Certificate of Tahasildar, Barbil

T. K. Roy
T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

Deen
7/11/2017
Forest Range Officer
Barbil Range

Deen
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्योझर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

2
TAHASILDAR
BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

21	157	96	RAKHITA	ROAD	0.32	0.04	39	Sala Jungle
22	158	96	RAKHITA	PATITA	0.91	0.06	39	Sala Jungle
23	159	96	RAKHITA	ROAD	0.17	0.01	39	Sala Jungle
24	160	96	RAKHITA	PATITA	1.62	0.3	39	Sala Jungle
25	161	96	RAKHITA	ROAD	0.92	0.3	39	Sala Jungle
26	162	96	RAKHITA	PATITA	5.48	2.196	39	Sala Jungle
27	163	96	RAKHITA	PATITA	2.40	0.95	39	Sala Jungle
28	164	96	RAKHITA	ROAD	1.20	0.22	39	Sala Jungle
29	165	96	RAKHITA	PATITA	16.14	2.06	40	Sala Jungle
30	170	96	RAKHITA	PATITA	1.92	0.804	30,39	Sabak Patita,Sala Jungle
31	177	96	RAKHITA	NALA	0.52	0.05	23	Sala Jungle
32	184	96	RAKHITA	GOCHAR	0.52	0.22	-	Un surveyed
33	185	96	RAKHITA	GOCHAR	0.88	0.07	-	Un surveyed
34	186	96	RAKHITA	GOCHAR	0.82	0.02	-	Un surveyed
35	188	96	RAKHITA	GOCHAR	0.21	0.09	-	Un surveyed
36	189	96	RAKHITA	GOCHAR	0.19	0.05	-	Un surveyed
37	204	96	RAKHITA	ROAD	0.19	0.02	40	Sala Jungle
38	210	96	RAKHITA	PATITA	0.96	0.39	40	Sala Jungle
39	211	96	RAKHITA	ROAD	0.07	0.02	40	Sala Jungle
40	212	52	PANDU MUNDA	TAILA-I	1.50	0.58	39/1/553	Not Available
41	234	96	RAKHITA	DANDA	0.18	0.05	39	Sala Jungle
42	236	96	RAKHITA	DANDA	0.52	0.15	39	Sala Jungle
43	240	96	RAKHITA	PATITA	0.37	0.15	39	Jungle
44	241	96	RAKHITA	PATITA	0.81	0.33	39	Jungle

2

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** Detailed as per authenticated Land schedule & Certificate of Tahasildar, Barbil

Shankar Prasad
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्यॉज़र, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

Forest Range Officer
Barbil Range

Tahasildar
BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

45	265	96	RAKHITA	GHARBARI	1.71	0.69	76	Sala Jangala
46	284	96	RAKHITA	PATITA	0.24	0.1	199	Jungle
47	337	96	RAKHITA	PATITA	2.25	0.76	199	Jungle
48	347	96	RAKHITA	ROAD	0.61	0.22	199	Jungle
49	348	96	RAKHITA	PATITA	2.08	0.66	199	Jungle
50	349	96	RAKHITA	PATITA	4.29	1.74	199,201	Jungle
51	353	96	RAKHITA	PATITA	1.71	0.68	199	Jungle
52	354	96	RAKHITA	ROAD	0.25	0.08	199	Jungle
53	355	96	RAKHITA	PATITA	2.32	0.93	199	Jungle
54	360	96	RAKHITA	PATITA	0.29	0.11	199	Jungle
55	361	96	RAKHITA	PATITA	0.94	0.37	199	Jungle
56	362	96	RAKHITA	PATITA	0.24	0.08	199	Jungle
57	363	96	RAKHITA	PATITA	0.76	0.31	199	Jungle
58	364	96	RAKHITA	ROAD	0.27	0.08	199	Jungle
59	365	96	RAKHITA	PATITA	0.98	0.4	199	Jungle
60	366	96	RAKHITA	ROAD	0.54	0.21	199	Jungle
61	367	38	BOLANI ORES MINES	GHARBARI	0.21	0.07	200/467	Not Available
62	368	96	RAKHITA	PATITA	0.43	0.08	199	Jungle
63	369	96	RAKHITA	ROAD	0.13	0.04	199	Jungle
64	370	96	RAKHITA	GHARBARI	0.41	0.16	199	Jungle
65	371	96	RAKHITA	PATITA	0.16	0.06	199	Jungle
66	372	96	RAKHITA	PATITA	0.14	0.05	199	Jungle
67	373	96	RAKHITA	PATITA	1.34	0.52	199	Jungle
68	374	38	BOLANI ORES MINES	GHARBARI	0.99	0.38	224/1/482	Not Available

3

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** Detailed as per authenticated Land schedule & Certificate of Tahasildar, Barbil

Healy
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्यॉंझर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

Deep
7/XI/2017
Forest Range Officer
Barbil Range

2
TAHASILDAR
BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

69	376	96	RAKHITA	GHARBARI	0.85	0.34	199	Jungle
70	419	96	RAKHITA	ROAD	0.21	0.08	39	Jungle
71	501	96	RAKHITA	GHARBARI	1.10	0.09	201	Jungle
72	502	96	RAKHITA	ROAD	0.31	0.03	201	Jungle
73	503	96	RAKHITA	GHARBARI	0.12	0.01	201	Jungle
74	504	96	RAKHITA	PATITA	0.53	0.02	201	Jungle
75	505	96	RAKHITA	GHARBARI	0.03	0.01	201	Jungle
76	506	96	RAKHITA	PATITA	1.81	0.04	201	Jungle
77	507	96	RAKHITA	ROAD	0.40	0.02	201	Jungle
78	508	96	RAKHITA	GHARBARI	5.86	0.09	201	Jungle
79	525	75	RAMCHANDRA MUNDA	TAILA-II	0.72	0.29	240/6/564	Not Available
80	531	97	SARBA SADHRANA	DANDA	0.50	0.18	174	Jungle
81	617	38	BOLANI ORES MINES	ROAD	0.12	0.02	253/1/504	Not Available
82	682	86	SUKUTU MOHANTA	TAILA-I	1.29	0.02	277/464, 275/465	Not Available
83	702	8	SANA KANDA MUNDA	TAILA-I	1.80	0.12	295/557	Not Available
84	728	96	RAKHITA	GOCHAR	0.30	0.12	170	Jungle
85	729	96	RAKHITA	GOCHAR	0.41	0.16	170	Jungle
86	751	90/42	BOLANI ORES MINES	KARKHANA	0.30	0.12	951	Not Available
87	755	96	RAKHITA	GOCHAR	0.27	0.1	170	Jungle
88	756	96	RAKHITA	GOCHAR	0.75	0.3	170	Jungle
89	757	96	RAKHITA	GOCHAR	0.15	0.05	170	Jungle
90	759	98	ABADA JOGYA ANABADI	SARADA-I	0.87	0.33	170	Jungle
91	760	96	RAKHITA	GOCHAR	0.13	0.05	170	Jungle
92	770	96	RAKHITA	GOCHAR	0.20	0.07	170	Jungle

4

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T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

Devi
Range Officer
Forest Range

Devi
Plat
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्योजर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

Devi
TAHASILDAR
BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

93	771	96	RAKHITA	GOCHAR	0.12	0.04	170	Jungle
94	772	96	RAKHITA	GOCHAR	0.44	0.14	170	Jungle
95	863	96	RAKHITA	PATITA	2.55	0.15	361	Jungle
96	864	96	RAKHITA	ROAD	1.38	0.22	361	Jungle
97	897	38	BOLANI ORES MINES	KARKHANA	1.22	0.49	364/1/537	Not Available
98	346/905	96	RAKHITA	PATITA	5.05	2	199	Jungle
99	346/906	96	RAKHITA	PATITA	3.42	1.29	199	Jungle
100	348/907	96	RAKHITA	ROAD	1.52	0.21	201	Jungle
101	349/908	96	RAKHITA	ROAD	0.21	0.08	201	Jungle
102	349/909	96	RAKHITA	ROAD	0.33	0.12	201	Jungle
103	349/910	96	RAKHITA	PATITA	0.73	0.28	201	Jungle
104	506/912	96	RAKHITA	ROAD	0.19	0.01	201	Jungle
105	506/920	96	RAKHITA	RENGALIPAL I SCHOOL GARDEN	0.51	0.16	201	Jungle
106	506/921	96	RAKHITA	RENGALIPAL I SCHOOL GARDEN	0.31	0.1	201	Jungle
107	506/922	96	RAKHITA	NAYANAJORI	0.96	0.34	201	Jungle
108	349/923	96	RAKHITA	PATITA	0.53	0.21	201	Jungle
109	77/938	38	BOLANI ORES MINES	GHARBARI	0.26	0.1	52/1/491	Not Available
110	225/965	90	SELAI MUNDA & OTHERS	Sarada-III	0.28	0.11	156	Jungle
111	262/971	100	S.E. RAILWAYS	PATITA	0.28	0.11	91/521	Not Available
112	282/985	96	RAKHITA	ROAD	0.16	0.06	78,196	Patita,Jungle
113	366/989	38	BOLANI ORES MINES	ROAD	0.79	0.29	200/487	Not Available
114	376/990	100	S.E. RAILWAYS	GHARBARI	0.76	0.31	193/541, 190, 191, 224/374	NA, Goda-I, Ghara

5

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Asah
Alay
SUPERVISOR
SAIL, R.M.D.
BOLANI ORES MINES

T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
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[Signature]
Forest Range Officer
Barbil Range

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TAHASILDAR
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115	506/994	96	RAKHITA	RAILWAY ROAD	0.16	0.06	199	Jungle
116	506/996	96	RAKHITA	RAILWAY ROAD	0.07	0.03	199	Jungle
117	263/998	96	RAKHITA	NAYANAJORI	0.31	0.03	201	Jungle
118	263/999	96	RAKHITA	NAYANAJORI	0.14	0.04	199	Jungle
119	506/1008	96	RAKHITA	NAYANAJORI	0.09	0.02	199	Jungle
120	162/1009	96	RAKHITA	PATITA	1.00	0.13	201	Jungle
121	377/1012	96	RAKHITA	ROAD	0.20	0.01	201	Jungle
122	378/1013	96	RAKHITA	PATITA	0.78	0.09	201	Jungle
123	494/1024	96	RAKHITA	GHARBARI	2.15	0.87	201,202	Jungle
124	525/1035	47	NUGU MUNDA	GHARBARI	0.58	0.06	240/8/569	Not Available
125	525/1036	40	DALA MUNDA	GHARABARI	0.12	0.05	236/2/559	Not Available
126	525/1037	40	DALA MUNDA	TAILA-I	1.48	0.37	240/1/558	Not Available
127	525/1040	76	RUPA MUNDA	TAILA-II	1.00	0.27	240/3/562	Not Available
128	529/1043	96	RAKHITA	HUDI	0.29	0.12	240/9/563	Not Available
129	530/1045	42	TABGA MUNDA	TAILA-II	1.65	0.38	240/4/560/1	Not Available
130	542/1048	90/42	BOLANI ORES MINES	KARKHANA	1.95	0.79	302/1/452	Not Available
131	619/1075	83	SIBA NAIKA	TAILA-I	0.26	0.01	286/548	Not Available
132	703/1101	51	PATU MUNDA	GHARABARI	0.52	0.02	347/1/555	Not Available
133	836/1153	96	RAKHITA	ROAD	0.28	0.11	361	Jungle
134	862/1155	96	RAKHITA	ROAD	0.22	0.07	361	Jungle
135	862/1156	96	RAKHITA	PATITA	0.66	0.27	361	Jungle
136	863/1157	90/3	RADHAKANTA MOHANTA	TAILA-II	0.15	0.01	402	Not Available
137	346/1171	96	RAKHITA	PATITA	0.70	0.23	199	Jungle
138	348/1172	96	RAKHITA	ROAD	0.68	0.26	199	Jungle

6

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Asahy Ghant
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
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Bolani-758 037, Keonjhar, Odisha

Devi
7/11/2012
Forest Range Officer
Barbil Range

2
TAHASILDAR
BARBIL

SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON 25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980

139	283/1186	96	RAKHITA	GHARBARI	0.17	0.07	196,199	Jungle
140	346/1191	96	RAKHITA	PATITA	2.01	0.66	199	Jungle
141	380/1233	96	RAKHITA	PATITA	0.37	0.15	231	Jungle
142	355/1236	89	SUNIA MUNDA	PATITA	0.56	0.23	200	Jungle
143	385/1266	89	SUNIA MUNDA & OTHERS	Taila-I	0.32	0.02	-	Not Available
144	463/1270	45	DANU MUNDA & OTHERS	SARADA-II	0.32	0.04	432	-
145	542/1271	88	SUNA RAMA MUNDA	TAILA-I	0.63	0.022	240/6/566	Not Available
Total Non-forest land of Balagoda Village, recorded as forest as on 25.10.1980, applied for diversion under Section-2(ii) of FC Act							45.042	

Village-Bolani

Sl	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for Diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
1	24	149	RAKHITA	PATITA	23.98	9.704	-	Not Available
2	25	149	RAKHITA	RAILROAD	0.3	0.121	17	Sala Jungle
3	26	149	RAKHITA	NAYANAJORI	1.42	0.575	18	Sala Jungle
4	27	149	RAKHITA	RAILROAD	0.29	0.117	18	Sala Jungle
5	38	149	RAKHITA	ROAD	0.15	0.061	18,169	Sala Jungle
6	39	149	RAKHITA	PATITA	45.23	18.304	-	
7	42	149	RAKHITA	PATITA	28	7.478	24,172	Sala Jungle
8	43	149	RAKHITA	TAILA-II	3.71	1.317	8	Sala Jungle
9	44	149	RAKHITA	PATITA	6.5	2.100	18,24	Sala Jungle
10	45	149	RAKHITA	TAILA-II	2.79	0.063	24	Sala Jungle
11	47	149	RAKHITA	DANDA	0.8	0.026	24	Sala Jungle
12	70	149	RAKHITA	TAILA-I	0.39	0.156	172	Sala Jungle

7

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S. K. Roy
 SURVEYOR
 SAIL, R.M.D.
 BOLANI ORES MINES

T. K. Roy
 Mines Manager
 Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
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 Bolani-758 037, Keonjhar, Odisha

[Signature]
 Forest Range Officer
 Barbil Range

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 TAHASILDAR
 BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for Diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
13	71	149	RAKHITA	PATITA	1	0.206	172	Sala Jungle
14	77	149	RAKHITA	TAILA-I	0.36	0.005	172	Sala Jungle
15	172	149	RAKHITA	PATITA	0.42	0.009	257	Sala Jungle
16	181	38	JOGANADRA NAIK	SARADA-I	2.16	0.084	-	-
17	250	149	RAKHITA	PATITA	1.1	0.025	312,369	Sala Jungle
18	257	149	RAKHITA	NALA	2.02	0.002	325	Sala Jungle
19	671	149	RAKHITA	PATITA	8.29	2.056	275	Sala Jungle
20	673	149	RAKHITA	PATITA	8.24	0.498	275	Sala Jungle
21	676	149	RAKHITA	PATITA	3.34	0.332	275	Sala Jungle
22	682	149	RAKHITA	PATHARA BANI	6.82	0.048	260,262	Sala Jungle
23	686	149	RAKHITA	NAYANAJORI	1.62	0.142	261,262	Sala Jungle
24	687	149	RAKHITA	PATITA	0.33	0.029	250	Sala Jungle
25	688	149	RAKHITA	TAILA-I	1.83	0.105	250	Sala Jungle
26	691	149	RAKHITA	NAYANAJORI	3.72	1.505	250	Sala Jungle
27	700	149	RAKHITA	NAYANAJORI	5.5	1.254	260,262	Sala Jungle
28	715	63	PAFAGU NAIK	TAILA-I	0.98	0.059	252/829	Not Available
29	716	149	RAKHITA	DANDA	1.94	0.011	262,252	Sala Jungle
30	717	149	RAKHITA	TAILA-I	0.16	0.006	252	Sala Jungle
31	718	149	RAKHITA	TAILA-I	0.16	0.060	252	Sala Jungle
32	720	31	JADUMANI BARIK	TAILA-I	0.6	0.044	256/16/872 256/15/873	Not Available
33	721	149	RAKHITA	PATITA	0.6	0.039	252	Sala Jungle

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Devi Prasad
SURVEYOR
SAIL, P.M.D.
BOLANI ORES MINES

T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
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Devi Prasad
Forest Range Officer
Barbil Range

2
TAHASILDAR
BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for Diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
34	723	149	RAKHITA	PATITA	4.83	1.541	252	Sala Jungle
35	727	149	RAKHITA	GHRABARI	0.2	0.013	256	Sala Jungle
36	729	149	RAKHITA	TAILA-I	1	0.085	256	Sala Jungle
37	737	149	RAKHITA	TAILA-I	0.62	0.049	256	Sala Jungle
38	738	149	RAKHITA	TAILA-I	1.68	0.086	256	Sala Jungle
39	739	83	Bhunda Naik	Taila-I	0.4	0.160	256/12/840 256/13/841	Not Available
40	740	149	RAKHITA	TAILA-I	0.22	0.024	256	Sala Jungle
41	765	149	RAKHITA	ROAD	0.62	0.102	160	Sala Jungle
42	769	149	RAKHITA	NAYANAJORI	1.82	0.029	17,190	Sala Jungle
43	772	149	RAKHITA	NAYANAJORI	0.23	0.031	18	Sala Jungle
44	773	149	RAKHITA	ROAD	0.23	0.026	17	Sala Jungle
45	775	149	RAKHITA	RAILROAD	0.25	0.022	17	Sala Jungle
46	776	149	RAKHITA	NAYANAJORI	0.71	0.218	17	Sala Jungle
47	777	149	RAKHITA	RAILROAD	0.27	0.106	17	Sala Jungle
48	778	149	RAKHITA	NAYANAJORI	2.06	0.830	17	Jungle
49	779	149	RAKHITA	ROAD	0.2	0.067	17	Sala Jungle
50	780	149	RAKHITA	ROAD	0.1	0.040	17	Jungle
51	781	149	RAKHITA	GHRABARI	0.05	0.015	17	Jungle
52	782	149	RAKHITA	PATITA	1	0.382	17	Jungle
53	783	149	RAKHITA	PATITA	0.28	0.108	17	Jungle
54	784	149	RAKHITA	PATITA	0.32	0.129	17	Jungle
55	785	149	RAKHITA	PATITA	0.13	0.050	17	Jungle

9

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Shah Alay
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
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Devi
7/11/2012
Forest Range Officer
Barbil Range

2
TAHASILDAR
BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for Diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
56	786	149	RAKHITA	PATITA	0.06	0.020	17	Jungle
57	787	149	RAKHITA	NAYANAJORI	0.5	0.030	17	Jungle
58	788	149	RAKHITA	RAILROAD	0.04	0.016	17	Sala Jungle
59	789	149	RAKHITA	NAYANAJORI	0.1	0.040	17	Sala Jungle
60	790	149	RAKHITA	RAILROAD	0.06	0.013	17	Sala Jungle
61	791	149	RAKHITA	NAYANAJORI	0.5	0.048	17	Sala Jungle
62	792	149	RAKHITA	NAYANAJORI	0.12	0.025	17	Sala Jungle
63	793	149	RAKHITA	ROAD	0.02	0.008	17	Sala Jungle
64	794	149	RAKHITA	PATITA	0.69	0.104	17	Sala Jungle
65	835	149	RAKHITA	SARADA-III	0.26	0.105	252	Sala Jungle
66	876	129	BOLANI ORES MINES	GHARABARI	2.87	1.160	245,247	-
67	877	149	RAKHITA	PATITA	3.52	0.209	250	Sala Jungle
68	878	149	RAKHITA	RIVER	6	0.138	263,250,246	Kalua Nadi, sala jungle, sala jungle
69	879	149	RAKHITA	RIVER	7.3	0.026	264,262,270	Kalua Nadi, sala jungle, sala jungle
70	24/1007	149	RAKHITA	NAYANAJORI	5.1	2.060	-	Not Available
71	39/1008	149	RAKHITA	NAYANAJORI	3.67	1.485	-	Not Available
72	23/1015	149	RAKHITA	GHARABARI	0.85	0.343	-	Not Available
73	23/1016	149	RAKHITA	GHARABARI	0.42	0.003	17	Sala Jungle
74	39/1019	149	RAKHITA	PATITA	0.52	0.149	16,17	Sala Jungle

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Surveys Dept
SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

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Bolani-758 037, Keonjhar, Odisha

Devesh
7/11/2017
Forest Range Officer
Barbil Range

2
TAHASILDAR
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**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
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							Plot No	Kisam as on 25.10.1980
75	39/1020	149	RAKHITA	PATITA	4.4	0.641	15	Sala Jungle
76	39/1023	149	RAKHITA	PATITA	2.59	0.573	1,15	Sala Jungle
77	144/1052	149	RAKHITA	PATITA	0.18	0.006	312	Sala Jungle
78	189/1072	149	RAKHITA	SARADA-II	0.12	0.008	257	Sala Jungle
79	258/1087	149	RAKHITA	TAILA-I	0.66	0.044	367	Sala Jungle
80	42/1090	149	RAKHITA	PATITA	5.5	1.587	8	Sala Jungle
81	42/1091	149	RAKHITA	PATITA	30.37	12.290	10,24,172	Goda-ii, Jungle, jungle
82	296/1099	149	RAKHITA	ROAD	0.67	0.135	312,367,368	Sala Jungle
83	682/1275	149	RAKHITA	PATITA	2.84	1.149	260	Sala Jungle
84	686/1278	149	RAKHITA	NAYANAJORI	0.54	0.007	250	Sala Jungle
85	706/1282	149	RAKHITA	TAILA-I	0.08	0.030	252	Sala Jungle
86	708/1283	63	PAFAGU NAIK	SARADA-III	0.18	0.028	252/828	Not Available
87	723/1287	63	PAFAGU NAIK	TAILA-I	0.27	0.008	252/829	Not Available
88	723/1289	135	Sunia Munda	Taila-I	0.66	0.267	257/11/823	Not Available
89	723/1291	149	RAKHITA	DANDA	1.04	0.043	252	Sala Jungle
90	726/1294	149	RAKHITA	PATITA	0.28	0.025	256	Sala Jungle
91	737/1302	12	KANHU NAIK	TAILA-I	0.52	0.058	256/14/845	Not Available
92	824/1321	149	RAKHITA	SARADA-II	0.1	0.017	190	Sala Jungle
93	874/1331	149	RAKHITA	ROAD	0.2	0.076	250	Sala Jungle
94	874/1332	149	RAKHITA	ROAD	0.15	0.057	250	Sala Jungle

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SURVEYOR
SAIL, R.M.D.
BOLANI ORES MINES

[Signature]
T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
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7/11/2012
Forest Range Officer
Barbil Range

[Signature]
TAHASILDAR
BARBIL

SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON 25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for Diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
95	876/1337	149	RAKHITA	GHRABARI	0.73	0.267	250	Sala Jungle
96	28/1363	149	RAKHITA	NAYANAJORI	0.4	0.007	190	Sala Jungle
97	102/1366	149	RAKHITA	NAYANAJORI	1	0.170	256,257	Sala Jungle
98	172/1367	149	RAKHITA	NAYANAJORI	1.15	0.079	256,257	Sala Jungle
99	692/1376	149	RAKHITA	RAILROAD	1.12	0.013	250,260,262	Sala Jungle
100	686/1378	149	RAKHITA	NAYANAJORI	0.7	0.023	257	Sala Jungle
101	780/1384	149	RAKHITA	ROAD	0.03	0.009	17	Sala Jungle
102	694/1395	149	RAKHITA	ROAD	0.15	0.005	250	Sala Jungle
103	69/1406	100	RAYA MAHAKUDU & OTHERS	TAILA-I	0.01	0.004	-	-
104	876/1428	61	PADMANAVA NAIK	GHRABARI	0.48	0.190	-	Not Available
Total Non-forest land of Bolani Village, recorded as forest as on 25.10.1980, applied for diversion under Section-2(ii) of FC Act						74.452		

Village-Limtur

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
1	32	18	LACMAN MUNDA	TAILA-I	1.91	0.096	73	-
2	52	25	RAKHITA	GOCHARA	0.22	0.032	2	Jungle
3	62	27	ABADA JOGYA ANABADI	PATITA	0.3	0.137	1	Jungle
4	63	25	RAKHITA	BASTI JOGYA	2.68	0.327	1	Jungle

* "Not Available", "Un-surveyed", "Not-mentioned" have been Considered as forest for diversion purpose
 ** Detailed as per authenticated Land schedule & Certificate of Tahasildar, Barbil

[Signature]
 7/11/2012
 Forest Range Officer
 Barbil Range

[Signature]
 SAIL, R.M.D.
 BOLANI ORES MINES

[Signature]
T. K. Roy
 Mines Manager
 Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
 सेल - आर एम डी - बोलानी-अयक्स खदान
 SAIL-RMD-Bolani Ores Mines
 बोलानी-758 037, ब्यौड़ार, ओड़ीसा
 Bolani-758 037, Keonjhar, Odisha

[Signature]
TAHASILDAR
 BARBIL

**SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON
25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980**

SI	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
5	64	26	SARBASADHARANA	ROAD	0.6	0.073	2	Jungle
6	67	26	SARBASADHARANA	ROAD	0.14	0.019	2	Jungle
7	68	25	RAKHITA	UNNATA YOJANA	1.68	0.221	1	Jungle
8	74	25	RAKHITA	GOCHARA	14.84	2.738	1,2	Jungle
9	76	25	RAKHITA	SARBASAD HARANA	0.72	0.008	1,2	Jungle
10	77	5	JAYARAM MUNDA	TAILA-II	1.00	0.002	100	Not available
11	79	2	ANANTA / DHANUARA ORAM	TAILA-I	1.50	0.006	46/4/106	Not available
12	80	16	MOHAN ORAM	TAILA-II	2.06	0.072	47/1/120	Not available
13	81	24/4	JAGDISH CHANDRA TAMASHYA	TAILA-I	2.42	0.135	47/66	
14	84	20	SAMU CHARAN MUNDA & OTHERS	TAILA-I	4.60	0.415	46/2/99	Not available
15	92	23	SINGA MUNDA	TAILA-I	0.80	0.029	101	Not available
16	93	27	ABADA JOGYA ANABADI	TAILA-I	0.4	0.093	1	Jhati jungle
17	95	27	ABADA JOGYA ANABADI	TAILA-II	0.24	0.052	2	Jungle
18	97	27	ABADA JOGYA ANABADI	GHARABAR I	0.09	0.022	2	Jungle
19	112	27	ABADA JOGYA ANABADI	GHARABAR I	0.15	0.025	2	Jungle
20	115	26	SARBASADHARANA	ROAD	0.32	0.011	11	Jungle

13

* "Not Available", "Un-surveyed", "Not-mentioned" have been Considered as forest for diversion purposes

** Detailed as per authenticated Land schedule & Certificate of Tahasildar, Barbil

[Signature]
Forest Range Officer
Barbil Range

[Signature]
SAIL, BARBIL
BOLANI ORES MINES

[Signature]
T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्यॉंझर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

[Signature]
TAHASILDAR
BARBIL

SCHEDULE OF 124.313 HECTARES NON-FOREST LAND RECORDED AS FOREST, AS ON 25.10.1980, APPLIED FOR DIVERSION UNDER SECTION-2(II) OF F C ACT 1980

Sl	HAL PLOT NO	HAL KHATA NO	Name of Tenant	HAL Kisam	Area in ML in Ac	Area applied for diversion in Ha.	Status as on 25.10.1980	
							Plot No	Kisam as on 25.10.1980
21	128	28	ABADA AJOGYA ANABADI	NALA	0.20	0.009	16	Jungle
22	134	27	ABADA JOGYA ANABADI	TAILA-I	0.48	0.072	27	Patita jungle
23	158	27	ABADA JOGYA ANABADI	TAILA-I	0.34	0.000	27	Patita jungle
24	159	27	ABADA JOGYA ANABADI	TAILA-I	1.2	0.108	27	Patita jungle
25	161	9	DHANUAR ORAM	TAILA-I	1.12	0.065	102	
26	162	27	ABADA JOGYA ANABADI	TAILA-I	0.85	0.052	27	Patita jungle
Total Non-forest land of Limtur Village, recorded as forest as on 25.10.1980, applied for diversion under Section-2(ii) of FC Act						4.819		

Abstract of 124.313 ha non-forest land recorded As forest as on 25.10.1980 Applied for diversion under section- 2(ii) of F C Act

Sl No	Name of Village	Area in Ha
1	Balagoda	45.042
2	Bolani	74.452
3	Limtur	4.819
4	Total	124.313

[Signature]
SUPERVISOR
SAIL, R.M.D.
BOLANI ORES MINES

[Signature]
T. K. Roy
Mines Manager
Bolani Ores Mines, SAIL

[Signature]
7/11/2012
Forest Range Officer
Barbil Range

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्यॉंझर, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

[Signature]
TAHASILDAR
BARBIL

Annexure-XX

Annexure-XXI

**ABSTRACT OF TREES STANDING OVER 99.032 HECTARES UNDIVERTED LAND RECORDED AS FOREST AS ON/AFTER
25.10.1980 WITHIN 6.90 SQ MILES ML OF BOLANI ORES MINES, M/S SAIL**

Sl. No.	Species	30 cm - 59 cm		60 cm - 89 cm		90 cm - 119 cm		120 cm - 149 cm		150 cm - 179 cm		180 above		Total		Grand Total	
		D	N	D	N	D	N	D	N	D	N	D	N	D	N		
1	Achu	22		2		1								0	25	0	25
2	Akashi			1				1						0	1	1	2
3	Ambeda	1	7	9	1	11	1	1	1	1	1	1	1	1	24	9	33
4	Angara	80		47		4								0	131	0	131
5	Ankula	20	2	31	1	13		1	1	1	1	1	1	1	66	3	69
6	Anla			1				0	1	1	1	1	1	0	3	0	3
7	Asana	30		52	4	13	6	19	2	1	1	1	2	1	99	14	113
8	Ate			3		1		1	1	1	1	1	1	0	5	0	5
9	Bahada							0						0	2	0	2
10	Banachakunda	13		1		3		3	1	1	1	1	1	0	18	0	18
11	Bara	1				1		1						0	12	0	12
12	Barakoli	1	1	2	9	4	4	9	4	2	1	1	1	1	17	1	18
13	Bela	2		4	2	6	1	7	1	1	1	1	1	0	14	3	17
14	Bhalia	5		2		2		0	1	1	1	1	1	0	9	0	9
15	Bhurkhunda			1		1		0						0	1	0	1
16	Bija			2	1	3	1	3	1	1	1	1	1	0	3	3	6
17	Chahar					0		0						0	0	1	1
18	Chakunda			2		1		1		2	2	2	0	0	5	0	5
19	Champu	1				0		0		0	0	0	0	0	1	0	1
20	Chanchan			0		1		1		0	0	1	1	1	2	0	2

महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एम डी - बोलानी-अयक्स खदान
SAIL MID-Bolani Ores Mines
General Manager (Mines)
बोलानी-798 087, अयक्स, अंडरस्ट्रीट
Bolani Ores Mines, Midar, Soliha

K. ROY
DGM (Mines) / Mining Manager
Bolani Ores Mines, SAIL

Jagdish Singh
Asst. Manager (Survey)
SAIL MID-BOLANI ORES MINES

Devi
Forest Range Officer
Barbil

Devi
Forester
Barbil

Malaya Ku Jena F.19
Forest Guard
Bolani

COUNTERSIGNED
Sankar
Divisional Forest Officer,
Keonjhar Division

Forest Range Officer
Barbil Range

Forest Section Officer
BARBIL SECTION

**ABSTRACT OF TREES STANDING OVER 99.032 HECTARES UNDIVERTED LAND RECORDED AS FOREST AS ON/AFTER
25.10.1980 WITHIN 6.90 SQ MILES ML OF BOLANI ORES MINES, M/S SAIL**

43	Kanta	3	3	1	1	2	0	0	0	0	0	0	0	4	1	5
44	Karanja	4	4	6	2	8	8	5	5	0	5	5	5	28	2	30
45	Kendu	2	2	2	2	2	2	4	4	2	0	1	1	12	1	13
46	Khadakala	96	96	6	6	2	1	3	1	1	0	1	1	106	1	107
47	Koli		0		0	0	0	1	1	1	0	0	0	1	0	1
48	Krushnachuda		0	1	1	1	0	0	0	0	1	1	1	2	0	2
49	Kuluchi		0	1	1	1	0	0	0	0	0	0	0	1	0	1
50	Kumbha		0	1	1	1	1	1	1	1	0	1	1	4	0	4
51	Kurehi	81	81	3	3	3	0	0	0	0	0	0	0	84	0	84
52	Kuruchi	2	2	6	6	1	1	1	1	1	0	0	0	9	0	9
53	Kusuma	2	2	3	3	6	6	3	3	6	6	3	39	56	3	59
54	Mahanima		0	2	2	2	0	2	2	2	0	1	1	5	0	5
55	Mahua		0		0	0	0	0	0	0	0	0	0	0	1	1
56	Mahula		0	0	0	0	1	2	2	2	5	1	6	13	4	17
57	Mai		0		0	0	1	1	0	0	0	0	0	1	0	1
58	Mangeda	1	1	11	11	13	13	5	5	5	0	1	1	31	0	31
59	Mango	2	2	24	24	38	2	40	35	2	37	14	2	138	7	145
60	Mankadkendu	295	7	302	77	4	81	25	1	26	9	2	11	409	14	423
61	Nima	8	3	11	21	5	26	17	1	18	9	1	10	63	11	74
62	Osta	3	3	2	2	2	0	1	1	1	0	3	3	9	0	9
63	Panasa	1	1	8	8	14	14	19	19	2	1	3	12	56	1	57
64	Pentala		0		0	2	2	0	0	0	0	0	0	2	0	2

Jagdish Sahoo
Asst. Manager (Survey)
Bolan Ores Mines, M/S SAIL

T. K. Roy
Mines Manager
Bolan Ores Mines, M/S SAIL

R. K. Singh
General Manager (Mines)
SAIL-RMD-Bolani Ores Mines
Bolan Ores Mines, M/S SAIL

Malaya Ku Jina F. G
Bolani Beconf
Forest Guard
Bolani

[Signature]
Forester
Barbil

[Signature]
Forest Range Officer
Barbil

Forest Section Officer
BARBIL SECTION

Forest Range Officer
Barbil Range

COUNTERSIGNED
[Signature]
Divisional Forest Officer,
Keonjhar Division

OFFICE OF THE FOREST RANGE OFFICER, BARBIL RANGE, BARBIL

Memo No- 192

Date.- 22-03-2018

To

The Divisional Forest Officer,
Keonjhar Division, Keonjhar

Sub: Proposal for diversion of 124.313 ha of Sabik Kisam Forest Land as on 25.10.1980 (treated as non- forest land in hal record) out of Total forest land of 723.312 ha (including sabik kisam forest land of 238.093 ha) located within the ML hold area over 1586.36 ha of Bolani Ores Mines (6.90 sq. mile ML) of M/S SAIL in village Bolani, Balagoda, Limtur etc. and Karo Reserved Forest under Barbil Tahasil of Keonjhar District, Odisha during 2nd RML period.

X-Sub: Submission of 100% Enumeration list of tree growth over un-diverted 99.032 ha Non-forest land found recorded/considered as forest as on 25.10.1980

Ref: Your Memo No-7139 Dated. 16.11.2017

Sir,

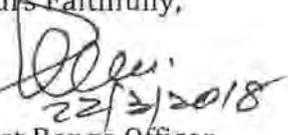
On the captioned subject with reference to your memo cited above in enclosing herewith the enumeration list for un-diverted forest land in 06 (Six) copies. I am to report your good self that, during 100% enumeration over 99.032 ha un-diverted forest land, 2654 Nos. of trees have been enumerated out of which 2413 Nos of trees are defect & balance 241 Nos of trees are normal.

Further I am to report your good self that, we have also enumerated the poles U/30 cm and found 178 Nos standing on un-diverted Forest land.

This is favour of your information & necessary action.

Encl. Enumeration List for un-diverted forest land-06 copies

Yours Faithfully,


22/3/2018
Forest Range Officer

Barbil Range

*Forest Range Officer
Barbil Range*

**ENUMERATION LIST
OF
TREES STANDING OVER
99.032 HECTARE
UN-DIVERTED LAND
RECODED AS FOREST
AS
ON/AFTER 25.10.1980
WITHIN
6.90 SQ MILE ML
OF
BOLANI ORES MINES, M/S SAIL**

CERTIFICATE

Certified that I have enumerated 2654 Nos. of trees and 178 Nos poles U/30 cm standing over 99,032 ha of un-diverted forest land inside the lease hold area of Bolani Ores Mines (6.90 sq. mile ML) of M/s SAIL, Bolani

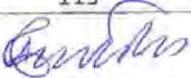


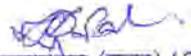
Forester
Barbil
Forest Section Officer
BARBIL SECTION

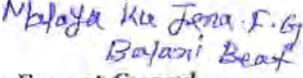
**ENUMERATION LIST OF TREES STANDING OVER 99.032 HECTARES
UN-DIVERTED LAND RECODED AS FOREST AS ON/AFTER 25.10.1980 WITHIN 6.90
SQ MILES ML OF BOLANI ORES MINES, M/S SAIL**

2644	Bela	150	1.0	D
2645	Karanja	102	1.0	D
2646	Mango	150	2.0	D
2647	Kusuma	272	1.0	D
2648	Mango	103	1.5	D
2649	Mango	164	2.0	D
2650	Mango	212	1.5	D
2651	Mango	280	1.0	D
2652	Pithala	140	1.5	D
2653	Dimiri	93	1.0	D
2654	Asana	115	1.5	D


Jagannath Sahoo
 Asst. Manager (Survey)
 Bolani Ores Mines, M/S SAIL


T. K. Roy
 Mines Manager
 Bolani Ores Mines, M/S SAIL


 महाप्रबन्धक (खनन) / General Manager (Mines)
 सेल - आर एम डी - बोलाणी - अयस्क खदान
 Bolani Ores Mines, M/S SAIL
 Bolani-758 037, Keonjhar, Odisha


Malaya K. Jena F.G.
 Forest Guard
 Bolani


Forester
 Barbil
 Forest Section Officer
 BARBIL SECTION


Forest Range Officer
 Barbil
 Forest Range Officer
 Barbil Range

Annexure-XXII (A)

27

SUMMARY OF LAND SCHEDULE
6.90 Sq.Miles Manganese Lease of Bolani Ores Ltd.

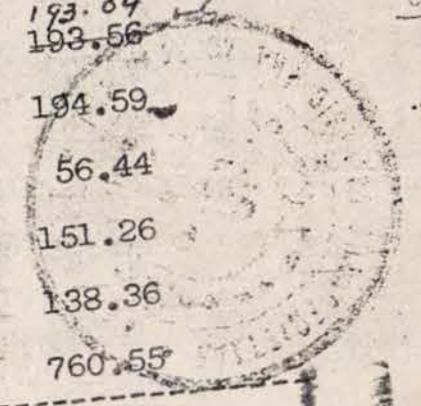
Village :	Government Land			Tenants Land.			Total (Acres)
	Area as per plan (Acres)	Area Excluded. (Acres)	Balance (Acres)	Area as per plan. (Acres)	Area Excluded (Acres)	Balance (Acres)	
Bolani	276.62	00.00	276.62	315.86	00.00	315.86	592.48
Balagoda	929.24	107.04	822.20	556.77	19.51	537.26	1359.46
Mat Kambada	563.26	431.79	131.47	257.72	196.15	61.57	193.04
Kol-Barpada	90.65	00.00	90.65	103.94	195.63	62.69	193.56
Seremda	25.21	00.00	25.21	31.23	00.00	31.23	194.59
Sant-Bahal	110.77	42.78	67.99	83.27	00.00	83.27	56.44
Sundra	466.98	426.89	40.09	110.42	12.15	98.27	151.26
Limtur	668.42	00.00	668.42	92.13	00.00	92.13	138.36
TOTAL:-	3131.15	1008.50	2122.65	1551.34	227.81	1323.53	3446.70
					227.29	1324.65	18
					Reserve forest.	1065.00	
					Less excluded	238.69	
					Land for S.E.Rly.		826.31
					Total lease area		140.80
					or 6.90		
					or 1786		4413.81 acres
							Sq.Miles
							Hectares.

R. Mohan.
Hd. Surveyor.
25.10.62.

BOLANI ORES LIMITED
BARBIL, (Keonjhar) CRISSA.

D. An au
Mining Officer, 4.11.62
BARBIL CIRCLE,
BARBIL.

Manda
4/11/62



Handwritten signature and date
27

Annexure-XXII (B)

35-10
P dt 16-9-66 A 15 30.00
196 2.00
32.00
KOLHAR
SUPPLEMENTARY LEASE DEED

Asst. Registrar
Officer.

THIS INDENTURE made this 12th day of Novr 1981 BETWEEN THE GOVERNOR OF ORISSA (here-in-after referred to as the "STATE GOVERNMENT" which expression shall where the context so admits be deemed to include the successors and assigns) of the one part AND Steel Authority of India Ltd., Bolani Ores Mines (name of Company), a company registered under the Companies Act, 1956 (Act under which incorporated) and having its registered office at Ispat Bhaban, Lodi Road, New Delhi, (herein-after referred to as the lessee which expression shall where the context so admits be deemed to include its successors and permitted assigns) of the other part - Represented by Shri Asit Kumar Mitra, S/O Shri Ram Mohan Mitra, aged about 54 years occupation : Chief Superintendent (Mines Development); Address: Durgapur Steel Plant, At/PO- Durgapur, Dist: Burdwan, (WB).

WHEREAS this deed is supplemental to the deed of lease made on the 14th November 1962 between the same parties and in the same order and registered at Book No.I and Volume No.30 pages 1 to 58 in the Sub-Registrar/Registrar office at Keonjhar hereinafter referred to as principal deed.

AND WHEREAS the lessee has applied to the State Government in accordance with the Mineral Concession Rule, 1960 (hereinafter referred to as "the said rules") for grant of Mining Lease for iron ore in respect of the lands described in part I of the schedule of the principal deed for Manganese ore over 6.90 sq. miles in village Bolani, Balagoda, Matkambada, Kolha Barpada, Serenda, Sant-Bahal, Sandra and Limtur

(executed a Mining Lease on 14th day of November, 1962) and
Annex-1

Registered 100 Registrars ...
the hours of ... 10 A.M. to 1 P.M.
on the ... 11th day of Nov 1918.

at the Keonjhar Sub-Registry Office

By *Asit Kumar Mishra*

Son of *Ram Mohan Mishra*

Chief Superintendent (Finance & Development)

Bandapat *Durgapur* Block plant

P.S. ... Dist. Keonjhar. *Blindness (C.I. 1918)*

By Caste ... By Profession

Asit Kumar

Registering Officer, Keonjhar



Executed in presence of

Asit Kumar Mishra

S. C. Das

Byan Uthra on 11th Nov 1918

of the same name and profession

Execution by *S. C. Das* who is exempt from personal appearance

in this office, under section 31 Act XVI of 1908, is, proved by his seal or signature.

Asit Kumar
Registering Officer,
KEONJHAR.

7
6641

Asit Kumar

12-11-18

7
Asit Kumar

12-11-18

6642

for a period of 20 years with effect from 14.11.1962) and the State Government have been pleased to allow the lessee to include Iron Ore in their subsisting mining lease for Manganese over 6.90 sq. miles in village Bolani etc., as per the terms and conditions contained in the principal deed. (It is agreed between the parties)

NOW THIS DEED WITNESSES and the parties hereto hereby agree as follows:

1. That the lessee shall operate the mine within the lease hold area on same terms and conditions as contained in the principal mining Lease Deed and this Supplementary Lease deed do form part of the principal Mining lease deed for inclusion of the iron ores till 13.11.82.
2. That as veried aforesaid the principal deed shall be fully binding between the parties and shall have full force and effect.

IN WITNESS WHEREOF these presents have been executed in the manner hereunder appearing the day and year first above written.
3. For the purpose of stamp duty the anticipated royalty for the demised land is Rs.20,000/- per year. The present rate of Dead Rent:

Contd....(3)

[Handwritten signature]

1st year : Nil
 2nd year to 5th year : @ Rs.12.50 per hecter per annum
 6th year to 10th year : @ Rs.25.00 per hecter per annum
 11th year onward : @ Rs.37.50 per hecter per annum

Total dead rent Rs 66975.00 per annum.
 The duplicate is the exact reproduction of original one.

Signed by the Collector, Keonjhar.

For and on behalf of the Governor of Orissa
 In the presence of witness:

1.

2. *Bi Gaurind Chandra Das*
in charge of mining circle
office Keonjhar
 Collector, Keonjhar
12-11-87

Signed by for and on behalf of
 the Lessee

In the presence of witness:

1. *Ajit K. Palibudhi*
General Manager
Bolani ores mines
12/11/87

2. *S.C. Sahoo*
Asst. Survey Officer
Bolani ores mines
12/11/87

STEEL AUTHORITY OF INDIA LIMITED,

CONSULTING ENGINEER

CHIEF SUPERVISOR

(SPECIAL DEVELOPMENT)

EUROPEAN STEEL PLANTS

For and on behalf of Steel
 Authority of India Limited,
 Bolani Ores Mines.

Distt - Keonjhar
 SR - Champna
 P.S. - Barbil

SUMMARY OF LAND SCHEDULE

6.90 Sq. Miles Manganese Lease of Bolani Ores Ltd.

Village	Government Land			Tenants Land			Total (Acres)
	Area as per plan (Acres)	Area Excluded (Acres)	Balance (Acres)	Area as per plan (Acres)	Area Excluded (Acres)	Balance (Acres)	
Bolani	276.62	00.00	276.62	315.86	00.00	315.86	592.48
Balagoda	929.24	107.04	822.20	556.77	19.51	537.26	1359.46
Matkambada	563.26	431.75	131.47	257.72	196.15	61.57	193.04
Kol-Barpada	90.65	00.00	90.65	103.94	00.00	103.94	194.59
Bermada	25.21	00.00	25.21	31.23	00.00	31.23	56.44
Sant-Bahal	110.77	42.78	67.99	83.27	00.00	83.27	151.26
Sundra	466.98	426.89	40.09	110.42	12.15	98.27	138.36
Amtur	668.42	00.00	668.42	92.13	00.00	92.13	760.55
TOTAL:-	3131.15	1009.50	2122.65	1551.34	227.81	1323.53	3446.18

Reserve forest: 1065.00
 Less excluded: 238.69 826.31
 Land for S.E.Rly. 140.80
 Total lease area:- 4413.29

or 6.90 sq. miles
 or 1786 Hectares.

Sd/- P K Moitra,
 Head Surveyor, 25.10.62
 Bolani Ores Ltd.

Sd/- x x x
 Mining Officer.
 4.11.62
 Barbil Circle

Sd/- x x x
 Government Surveyor,
 Barbil Circle, Barbil.

Signature
 12/11/89
Signature
 12/11/89
 Collector.
 BARBIL.

Annexure-XXII (C)

GOVERNMENT OF ORISSA
MINING AND GEOLOGY DEPARTMENT.

NO.

6040

MR. Dhubaneswar the

27.5.84

PROCEEDINGS.

SUBJ: Grant of Mining lease in the district of Keonjhar .

FACTS: Application presented on 12.11.81 by M/s Steel Authority of India Ltd. for grant of renewal Mining lease for Iron and Manganese over an area of 6.90 sq.miles in Bolani area in the district of Keonjhar .

DIVER :

Whereas M/s Steel Authority of India Ltd. have applied to the State Government for grant of Mining lease by their application read above ;

Whereas the mineral in the land in respect of which the mining lease has been applied for belongs to Government and the land is at their disposal ;

Whereas the applicant holds a valid Certificate of Approval from the State Government ;

Whereas the applicant being a limited company is incorporated in India ;

Whereas the Govt. of India in their letter No.5(51)/83-MV dt.29.12.83 have conveyed their approval in relaxation of the provision of Section 6(1) (b) of the M & M(R & D) Act, 1957 to hold the area in excess of the prescribed limit of 10 sq.kms. in the interest of mineral development in the State ;

Whereas the Government of India have conveyed their approval to the grant of 1st renewal of Mining lease under section 44 of the Mines and Minerals (Regulation and Development) Act, 1957 and also in exercise of the powers conferred by section 30 of the said Act, directed the State Government to take into consideration this application and pass orders thereon;

Whereas the part was asked in Mining and Geology Department letter No.1997/MG dt.15.2.84 to accept the terms and conditions under which the renewal of mining lease was proposed to be considered for grant and the party in his letter No.111 dated 12.3.84 accepted these conditions ;

Therefore, the State Government are hereby pleased to order that renewal of Mining lease in respect of the land over 6.90 sq.miles be granted to Messrs Steel Authority of India Limited for a further period of 20 years with effect from 14.11.82 subject to the conditions laid down in the State Govt. letter No.1997/MG dt.15.2.84. The party should comply with all the terms and conditions including furnishing of a surveyed map and description within 3 months from the date of this order to the Collector, Keonjhar .

BY ORDER OF THE GOVERNOR.
P. C. HAYAK

ADDITIONAL SECRETARY TO GOVERNMENT .

MR. Dhubaneswar the

File No.

Copy forwarded to Messrs Steel Authority of India Limited, Bolani Area Mine, Ispat Bhandar, Lachi Road, New Delhi .

Sd/-

ADDITIONAL SECRETARY TO GOVERNMENT .

P.T.O.

Memo No .

MG.Bhubaneswar the
Copy forwarded to the Collector , Keonjhar .

On receipt of all documents in full compliance of the terms and conditions laid down in Government letter No.1997/MG dated 15.2.84 he will please forward the same to Government with a report about the security deposit and any other matter which the Collector might consider necessary to bring to the notice of Government.

Self
ADDITIONAL SECRETARY TO GOVERNMENT.

Memo No.

6043

MG.Bhubaneswar the

Copy forwarded to the Director of Mining and Geology, Orissa for information.

ADDITIONAL SECRETARY TO GOVERNMENT.

Memo No.

MG.Bhubaneswar the

Copy forwarded to the Deputy Secretary to Government of India, Ministry of Steel and Mines, Department of Mines, New Delhi with reference to his letter No.5(51)/83 MV dt.29.12.83 for information .

ADDITIONAL SECRETARY TO GOVERNMENT .

Meher/

Annexure-XXII (D)

FORM 'D'

No. 806 /Mines, Dt. 26.3.02

RECEIPT OF APPLICATION FOR MINING LEASE.
(See Rule 10(4) and 23(4))
GOVERNMENT OF ORISSA.

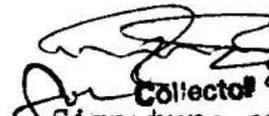
Sl. No. 782

Dt. 26.3.02.

Received the application alongwith following enclosures for renewal of M.L. of Steel Authority of India Ltd., Raw Materials Division, Bolani Ores Mines. over an area of 1586.36 hecets. or 3918.33 acres or 6.13 Sq. Miles in village Bolani, Balagoda, Limtur etc. under ~~Sadar~~ Champua Subdivision of Keonjhar district for Manganese and Iron ore.

Enclosures:-

1. Application in form 'J' for RML. -
 2. Boundary description. -
 3. Abstract of land Schedule -
 4. Plan in 1" = 330 ft scale -
 5. Affidavit regarding genuineness of signature. -
 6. Special power of attorney -
 7. ITCC. -
 8. List of Board of Director-s as on 15.11.2001 -
 9. T.C. (Bank Seroll No. 18 dt. 15.12.01) for Rs. 500/- towards appln. fee- -
- } SIX COPIES.


Collector 26.3.02
Signed ~~REON SHAN~~ the
receiving officer.

Annexure-XXII (E)

(2) राज्य सरकार, सरकारी कंपनी या निगम द्वारा खनन पट्टे की समाप्ति से कम से कम बारह मास पूर्व इस निमित्त इसे दिए गए आवेदन पर, कारणों को लेखबद्ध करते हुए, खनन पट्टे की अवधि को बीस वर्ष की और अवधि के लिए एक ही बार विस्तारित कर सकेगी।

(3) उपनियम (1) के अध्याधीन, किसी सरकारी कंपनी या निगम द्वारा खनन पट्टों के नवीकरण के लिए किए गए सभी आवेदन और जो खान और खनिज (विकास और विनियमन) संशोधन अधिनियम, 2015 (2015 का 10) के प्रारंभ की तारीख को लंबित थे, खनन पट्टे की अवधि के विस्तारण के लिए आवेदन समझे जाएंगे और उपनियम (2) के उपबंधों के अनुसार निपटाए जाएंगे।

4. 12 जनवरी, 2015 को या उसके पश्चात् सरकारी कंपनियों या निगमों को प्रदत्त खनन पट्टे की अवधि.—

- (1) किसी सरकारी कंपनी या निगम को खनिजों के लिए प्रदत्त सभी खनन पट्टे पचास वर्ष की अवधि के लिए होंगे।
- (2) किसी सरकारी कंपनी या निगम को अधिनियम की धारा 10ख और धारा 11 के उपबंधों के अनुसार प्रदत्त कोई खनन पट्टा पचास वर्ष की अवधि की समाप्ति पर समाप्त हो जाएगा और विस्तारित नहीं किया जाएगा।
- (3) राज्य सरकार जिसने सरकारी कंपनी या निगम द्वारा इस निमित्त आवेदन पर अधिनियम की धारा 17क की उपधारा (2क) और उपधारा (2ख) के उपबंधों के अनुसार खनन पट्टा प्रदान किया था, कम से कम बारह मास पूर्व कारणों को लेखबद्ध करते हुए, खनन पट्टे की अवधि को बीस वर्ष की और अवधि के लिए एक ही बार विस्तारित कर सकेगी।

5. अधिनियम की धारा 17क की उपधारा (2ग) के अधीन किसी सरकारी कंपनी या निगम द्वारा संदाय.—

- (1) कोई सरकारी कंपनी या निगम या कोई संयुक्त उपक्रम जिसे अधिनियम की धारा 17क की उपधारा (2क) और (2ख) के उपबंधों के अनुसार खनन पट्टा प्रदत्त किया गया है, प्रत्येक मामले में केंद्रीय सरकार द्वारा यथा अधिसूचित अधिनियम की दूसरी अनुसूची के संबंध में, संदत्त रायल्टी की प्रतिशतता के समान रकम संदत्त करेगा।
- (2) सरकारी कंपनी या निगम राज्य सरकार को उपनियम (1) के अधीन यथाविनिर्दिष्ट संदाय करेगा।
- (3) सरकारी कंपनी या निगम ऐसी अन्य रकम का संदाय भी संबंधित प्राधिकारियों को करेगा, जो तत्समय प्रवृत्त किसी विधि के अधीन अपेक्षित हो, जिसके अंतर्गत,-

- (i) राज्य सरकार को रायल्टी या अनिवार्य भाटक ;
- (ii) राष्ट्रीय खनिज खोज न्यास को संदाय ; और
- (iii) जिला खनिज फाउंडेशन को संदाय, है।

[फा. सं. 1/13/2015-एम.VI]

आर. श्रीधरन, अपर सचिव

MINISTRY OF MINES

NOTIFICATION

New Delhi, the 3rd December, 2015

G.S.R. 927(E).—In exercise of the powers conferred by section 13 of the Mines and Minerals (Development and Regulation) Act, 1957 (67 of 1957), the Central Government hereby makes the following rules, namely:-

1. Short title and commencement.— (1) These rules may be called the Mineral (Mining by Government Company) Rules, 2015.

(2) These rules shall come into force on the date of their publication in the Official Gazette.

2. Definitions.—(1) In these rules, unless the context otherwise requires, -

- (a) “Act” means the Mines and Minerals (Development and Regulation) Act, 1957 (67 of 1957);

- (b) “Government company” means a company as defined in sub-section (45) of section 2 of the Companies Act, 2013 (18 of 2013); and
- (c) “minerals” means minerals other than those defined as minor minerals under clause (e) of section 3 and minerals specified in Part A and Part B of the First Schedule to the Act.

(2) Words and expressions used and not defined in these rules, but defined in the Act shall have the same meanings as assigned to them in the Act.

3. Period of mining lease granted to Government companies or corporations before 12th January, 2015.—(1) All mining leases for minerals granted to a Government company or corporation before the date of commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 (10 of 2015), namely, the 12th January, 2015 shall be deemed to have been granted for a period of fifty years.

(2) The State Government, upon an application made to it in this behalf by the Government company or corporation at least twelve months prior to the expiry of the mining lease, may, for reasons to be recorded in writing, extend the period of the mining lease for further periods of upto twenty years at a time.

(3) Subject to sub-rule (1), all applications made by a Government company or corporation for renewal of mining leases and which were pending as on the date of commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 (10 of 2015) shall be deemed to be applications for extension of the period of the mining lease and shall be disposed of in accordance with the provisions of sub-rule (2).

4. Period of mining lease granted to Government companies or corporations on or after 12th January, 2015.—

(1) All mining leases granted to a Government company or corporation for minerals shall be for a period of fifty years.

(2) A mining lease granted to a Government company or corporation in accordance with the provisions of section 10B and section 11 of the Act shall expire at the end of the period of fifty years and shall not be extended.

(3) The State Government, upon an application made to it in this behalf by the Government company or corporation granted a mining lease in accordance with the provisions of sub-sections (2A) and (2B) of section 17A of the Act, at least twelve months prior to the expiry of the mining lease, may, for reasons to be recorded in writing, extend the period of the mining lease for further periods of up to twenty years at a time.

5. Payments by a Government company or corporation under sub-section (2C) of section 17A of the Act.—(1) A Government company or corporation or a joint venture, granted a mining lease in accordance with the provisions of sub-sections (2A) and (2B) of section 17A of the Act, shall pay an amount equivalent to a percentage of the royalty paid in terms of the Second Schedule to the Act, as notified by the Central Government in each case.

(2) A Government company or corporation shall make payments to the State Government as specified under sub-rule (1).

(3) A Government company or corporation shall also pay such other amounts as may be required under any law for the time being in force to the concerned authorities, including,-

- (i) royalty or dead rent to the State Government;
- (ii) payment to the National Mineral Exploration Trust; and
- (iii) payment to the District Mineral Foundation.

[F. No. 1/13/2015-M.VI]

R. SRIDHARAN, Addl. Secy.