

भारत सरकार / Government of India  
पर्यावरण, वन एवं जलवायु परिवर्तन अंत्रालय / Ministry of Environment, Forest & Climate Change  
क्षेत्रीय कार्यालय, भुवनेश्वर / Regional Office, Bhubaneswar  
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No.8-154/FCE

23<sup>rd</sup> April, 2024

To

The Addl. Director General of Forests (FC),  
Ministry of Environment, Forest & Climate Change,  
Indira Paryavaran Bhawan,  
Jor Bagh Road, Aliganj,  
New Delhi - 110 003.

Sub: Proposal for seeking prior approval of the Central Government under Section 2(1)(ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for non-forestry use of balance 41.819 ha of forest land (32.425 ha of DLC forest land for mining and allied activities, safety zone area of 8.568 ha and greenery of 0.826 ha) in addition to already diverted 567.087 ha of forest land in Joda East Iron & Manmora Manganese Mines in favour of M/s Tata Steel Ltd. in Keonjhar Forest Division of Odisha during 3<sup>rd</sup> RML period.

Ref: Ministry's letter No.8-32/1993-FC (Vol-III) dated 04.02.2024.

Sir,

With reference to the subject cited above, I am to inform that the site inspection of above proposal was conducted by the undersigned on 05.04.2024 & 06.04.2024. The site inspection report along with monitoring report of stipulated conditions in the approval granted on 24.09.2007 and 10.10.2017 are attached herewith for favour of kind information and necessary action.

Encl: As state above.

Yours faithfully,

(A.T. Mishra)

Dy. Director General of Forests (C)

**SITE INSPECTION REPORT IN RESPECT OF DIVERSION OF BALANCE 41.819 HA (32.425 HA OF DLC FOREST LAND FOR MINING AND ALLIED ACTIVITIES, SAFETY ZONE OF 8.568 HA AND GREENERY OF 0.826 HA) IN ADDITION TO ALREADY DIVERTED 567.087 HA OF FOREST LAND JODA EAST IRON & MANMORA MANGANESE MINES OF M/S TATA STEEL LTD. IN KEONJHAR FOREST DIVISION OF ODISHA DURING 3<sup>RD</sup> RML PERIOD.**

The site inspection of the above project was carried out by the undersigned on 05.04.2024 & 06.04.2024 along with DFO, Keonjhar and representatives from the user agency.

**1. Legal status of the forest land proposed for diversion:**

As reported by State Govt., legal status of the forest land is as below:

<b>Legal status</b>	<b>Forest Area (in ha)</b>
R.F.	8.110
K.F.	0.927
DLC Forest	32.782
<b>Total</b>	<b>41.819</b>

**2. Wildlife:**

It is informed that faunal species noticed in the area includes Python (*Python mlurus*) Cobra (*Naja naja naja*), Krait (*Bungarus caeruleus*), Viper (*Viper Russel*), Rabbit (*Oryctolagus cuniculus*), Pangolin (*Monis cassicaudata*), Wild boar (*Sus scrofa*). Also movement of wild Elephant is often noticed in the nearby area.

**Whether forest area proposed for diversion is important from wildlife point of view or not:**

The DFO, Keonjhar has reported that the area does not form a part of any National Park/Wildlife Sanctuary/Elephant corridor, but it falls within Elephant Habitat Zone-2 as per ORSAC report.

As such the user agency has to bear the proportionate cost @ Rs.43,000/- per hectare of leasehold area towards implementation of the comprehensive Regional Wildlife Management Plan covering the entire mining belt prepared for Bonai and Keonjhar Division as per revised norm approved by Govt. of Odisha. As reported, the lessee has deposited an amount of Rs.1,34,21,859/- towards proportionate cost of Regional Wildlife Management Plan at pre-revised rate of Rs.20,000/- per ha ha for 671.093 ha out of due amount of Rs.2,88,56,999/-. The lessee has also furnished an undertaking to bear the differential cost of Wildlife Management Plan. Further, the State Govt. has recommended that the user agency also pay towards cost of implementation of Site Specific Wildlife Conservation Plan.

**3. Vegetation:**

The density of vegetation is reported to be 0.2.

**(a) Total number of trees to be felled.**

The tree enumeration in 10 nos. of sample plots 1.00 ha each has been undertaken for virgin forest land of 32.425 ha proposed for mining activities. It has been estimated by the DFO, Keonjhar Forest Division that 443 nos. of trees above 30 cm and 1235 nos. of trees below 30 cm girth have been enumerated in 10 nos. of sample plots of 1.00 ha each. By extrapolating this figure in 32.425 ha, 1436 nos. of trees (above 30 cm girth) and 4005 nos. of trees below 30 cm girth) are assessed to be available in the virgin area which may be

required to felled. Similarly, tree enumeration over the remaining 9.394 ha, that includes safety zone of 8.568 ha and greenery area of 0.826 ha have also been taken up which reveals that 710 nos. of trees above 30 cm girth and 4795 no. of trees below 30 cm girth are existing over the area which are to be preserved. As such, 10,946 no. of trees are available in the whole forest area of 41.891 ha proposed for diversion.

**Effect of removal of trees on the general ecosystem in the area:**

As there are large numbers of trees to be felled, it will affect the general ecosystem of the area. Trees should be felled in a phased manner when absolutely essential to remove to minimize the adverse impact on the eco-system.

**(b) Important species:**

As reported by the State Govt., the tree species available in the applied area is Sal (*Shorea robusta*), Siali (*Bauhinia vahlii*), Dhaura (*Annogeisus latifolia*), Asan (*Terminalia tomentosa*), Kendu (*Diospyros melanoxylon*), Gambhari (*Gmelina arborea*), Char (*Buchnanian lanzan*), Mahul (*Madhuca indica*), Neem (*Azadirachta indica*) etc. Sal is pre-dominant species.

**4. Background note on the proposal:**

The applied mining lease was originally held by the then Maharaja, Keonjhar Estate over an area of 2.59 Sq. Miles. The said lease was granted by Superintendent, Keonjhar State in favour of M/s Tata Iron & Steel Co. Ltd. for a period of 30 years with effect from 01.07.1925 to 30.06.1955. The lease deed was executed and registered on 28.04.1926.

1<sup>st</sup> Renewal of Mining Lease was granted for a period of 30 years w.e.f. 01.07.1955 to 30.06.1985 over the same area of (i.e. 2.59 Sq. Miles) by Mining & Geology Department, Govt. of Odisha vide letter No.III(A)MG-21/57 dated 21.08.1957. The lease deed was executed on 19.07.1965.

2<sup>nd</sup> Renewal of Mining Lease was granted in favour of M/s TISCO Ltd. for a period of 20 years w.e.f. 01.07.1985 to 30.06.2005 by the Mining & Geology Department, Govt. of Odisha vide letter No.III(A)SM-7/97-7533/SM dated 21.08.1997 over a reduced area of 671.093 ha and lease deed was executed and registered on 20.01.1998. During 2<sup>nd</sup> RML period, the user agency has obtained diversion of forest land of 521.622 ha in this lease vide MoEF letter No.8-32/93-FC dated 16.01.1997.

During the year 2005, name of M/s TISCO Ltd. was changed to M/s Tata Steel Ltd. The Steel & Mines Department, Govt. of Odisha vide letter dated 17.11.2006 communicated their acceptance of the change of name of the Company. M/s Tata Steel Ltd. had applied for 3<sup>rd</sup> Renewal of Mining Lease for 20 years over same area of 671.093 ha w.e.f. 01.07.2005 to 30.06.2025 on 19.04.2004 i.e. one year prior to expiry of 2<sup>nd</sup> RML period on 30.06.2005. The applied Mining Lease area is having 671.093 ha which consists of 608.906 ha of forest land (520.727 ha of Baitarani R.F., 0.927 ha of Khesra Forest, 87.252 ha DLC forest) and 62.187 ha of non-forest land. During 3<sup>rd</sup> RML period, out of total forest land of 608.906 ha, the user agency had applied for diversion of 567.087 ha comprising of 133.309 ha of earlier broken forest land, 378.123 ha broken during 2<sup>nd</sup> RML period, 1.185 ha for Magazine house and 54.470 ha of broken up non-forest land included in the DLC report for mining and allied activities leaving the balance 41.819 ha (8.568 ha for safety zone, 0.826 ha Khesra forest for greenery and 32.425 ha of DLC forest land for future exploration). Govt. of India, MoEF had granted Stage-II/Final forest clearance over an area of 567.087 ha of forest land (including 54.470 ha of DLC forest land) vide letter No.8-32/1993-FC (Vol.II) dated 24.09.2007.

As per provisions of Forest (Conservation) Act, 1980, forest land cannot be assigned without obtaining prior permission of MoEF, Govt. of India under Forest (Conservation) Act, 1980. Further, the guidelines of MoEF bearing No.11-362/2012-FC dated 01.02.2013 requires seeking diversion of entire forest land within the lease within a period of two years. In view of this, the 41.891 ha of balance forest land in this lease is required to be diverted during 3<sup>rd</sup> RML period. Meanwhile, the State Govt. in Steel & Mines Department have decided in in-principle to renew the lease during 3<sup>rd</sup> RML and issued the relevant order under Section 8(3) of MMDR Act, 1957 vide No.4072 dated 31.05.2014.

Ministry vide letter No.8-32/1993-FC (Vol.-II) dated 10.10.2017 has granted Stage-I approval for change in land use pattern over already diverted area of 567.087 ha of forest land in Joda East Iron Ore Mine and Manmora Manganese Mines of M/s Tata Steel Ltd.

The present proposal is for diversion of balance 41.819 ha of forest land (32.425 ha of DLC forest land for mining & allied activities, Safety zone area of 8.568 ha and greenery of 0.826 ha) in addition to already diverted 567.087 ha of forest land in Joda East Iron & Manmora Manganese Mines of M/s Tata Steel Ltd. during 3<sup>rd</sup> RML period.

#### 5. **Compensatory afforestation:**

The details of non-forest land required for compensatory afforestation is indicated below:

Sl. No.	Description	Area (in ha)
1.	Forest area involved in the applied M.L.	608.906
2.	Forest area already diverted and C.A. undertaken accordingly	567.087
3.	i) Area kept for Safety Zone and Greenery ii) Greenery as per condition by MoEF, GoI approval order No.8-32/1993-FC (Vo.II) dated 23.08.2006	8.568 0.826
4.	Forest land required for diversion for mining & allied activities	32.425
5.	Non-forest land required for compensatory afforestation	32.425

In lieu of 32.425 ha of virgin DLC forest land proposed to be used for mining & allied activities additionally, 32.425 ha of non-forest Govt. land has been identified by State Govt. for the purpose of raising compensatory in Plot No.83(P) & No.97(P), Khata No.87, Kissam Parbat of village Raba under Telkoi Tahsil of Keonjhar district.

Further, the DFO, Keonjhar has reported the above CA land is suitable for planting @ 200 seedlings/ha in total 6485 nos. seedlings can be accommodated. Therefore, to accommodate balance seedlings of 25,940 (32,425 nos. – 6,485 nos.) or 26,000 nos., 26.00 ha of degraded forest land has been identified in Kalimati RF of Ghatagaon Range of Keonjhar Forest Division. The DFO, Keonjhar has furnished land suitability certificate.

As per Para 7.9 (vi) of Chapter 7 of Consolidated Guidelines and Clarification issued under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and Van (Sanrakshan Evam Samvardhan) Rules, 2023 “provision of the raising CA as applicable in the entire forest area proposed for diversion, will be applicable in lieu of forest land located in the safety zone as well”. Hence, the State Govt. should provide equivalent non-forest land for raising C.A. in lieu of forest land earmarked for Safety zone. So, the user agency has to identify additional 8.568 ha of non-forest land for CA in lieu of Safety Zone.



**(a) Whether land for compensatory afforestation is suitable from plantation and management point of view or not:**

The DFO, Keonjhar Forest Division has furnished land suitability certificate. The C.A. site was inspected along with DFO, Keonjhar. The DFO, Keonjhar Division said that as the identified non-forest CA area is large in size i.e. 32.425 Ha, close to Raiduga PF and in one compact block, so there will be no problem from management point of view.

**(b) Whether land for compensatory afforestation is free from encroachment/other encumbrances:**

The Tahasildar, Telkoi has issued non-encroachment and non-encumbrance certificate.

**(c) Whether land for compensatory afforestation is important from Religious/Archaeological point of view:**

It has been reported that the land for CA is not important from Religious/Archaeological point of view.

**(d) Land identified for raising compensatory afforestation is in how many patches, whether patches are compact or not:**

The non-forest land identified in Raba village under Telkoi Tahasil of Keonjhar under Keonjhar Forest Division for raising compensatory afforestation is comprising 32.425 Ha is in one compact block.



**Photographs of CA site.**

**(e) Map with details:**

The DGPS map & SoI Map indicating location of identified non-forest land for C.A. has been submitted by the State Govt.

(f) **Total financial outlay:**

The C.A. Scheme over 32.425 of non-forest land has been technically approved by APCCF (Nodal), Odisha with a financial outlay of Rs.47,87,500/-.

**6. Whether proposal involves violation of Forest (Conservation) Act, 1980 or not. If yes, a detailed report on violation including action taken against the concerned officials:**

The violation committed by the lessee along with the status of compliance have been reported by the PCCF, Odisha which are as follows:

Sl. No.	Violation Committed by the lessee	Observation after inspection
1.	<p>The entire safety area within the lease hold area has not been properly maintained which amounts to the violation of stipulation imposed by the MoEF, Govt. of India while according the 2<sup>nd</sup> Stage approval to the Mines. The safety zone has been totally disturbed due to illegal mining, construction of road and construction of other infrastructures like raising boundary wall etc. There is no fencing to protect the safety zone which violates the stipulation imposed by MoEF, Govt. during final approval. There are six illegal mining pits of following sizes were noticed on the safety zone in between ML pillar No.42 to 43 which violates the stipulations of MoEF, Govt. of India</p> <ol style="list-style-type: none"><li>1. 2.0 m x 12.0 m = 24. Sq.m or 0.0024 ha</li><li>2. 3.5 m x 4.9 m = 17.15 Sq.m or 0.0017 ha</li><li>3. 3.4 m x 4.7 m = 13.40 Sq.m or 0.0014 ha</li><li>4. 3.3 m x 4.0 m = 13.20 Sq.m or 0.0014 ha</li><li>5. 2.5 m x 6.0 m = <u>15.00 Sq.m or 0.0015 ha</u></li></ol> <p style="text-align: center;">94.70 Sq.m or 0.0094 ha</p>	<p>The Safety zone area has been fenced and inside the safety zone plantation has been done. The growth and development of plantation done in the safety zone is satisfactory.</p>
2	<p>As per the approved land use pattern, the over burden dump should in the non-forest land. But the overburden dump was seen in the Baitarani RF near ML pillar No.42 &amp; 43, GPS reading of which N 22<sup>0</sup> 02' 03". E 85<sup>0</sup> 26' 26.7" which violates the land use patter approved by the MoEF, GoI</p>	<p>Ministry vide letter No.8-32/1993-FC (Vol-II) dated 10.10.2017 has accorded in-principle approval for change in land use pattern over already diverted forest land of 567.087 ha of forest land. The area has been included in the re-diversion proposal.</p>
3	<p>One illegal slurry pipeline has been land within Baitarani RF which has not been approved by the MoEF, GoI during the 2<sup>nd</sup> Stage approval. The GPS reading of the above area is (N 22<sup>0</sup> 00' 52.1", E 85<sup>0</sup> 26' 42.8"). The stretch of slurry pipeline is as follows:</p> <ol style="list-style-type: none"><li>i) 3 pipeline 990 m x 7.5 m = 7425 Sq.m</li><li>ii) 1 pipeline 446 m x 1.0 m = <u>446 Sq.m</u></li></ol> <p>Total: 7871 Sq.m or 0.787 ha</p> <p>In the process of laying of slurry pipeline, an area of 7871 Sq.m or 0.787 ha of Baitarani RF has been disturbed by excavation of soil which violates the Orissa Forest Act, 1972</p>	<p>Ministry vide letter NO.8-32/1993-FC (Vol-II) dated 10.10.2017 has accorded in-principle approval for change in land use pattern over already diverted forest land of 567.087 ha of forest land.</p> <p>The pipeline is a part of re-diversion proposal.</p>

4.	<p>One road has been constructed illegally in between ML pillar No.30 to 31 over a length of 80 m x 5 m = 400 m or 0.04 ha. The GPS readings of that area is as follows:</p> <p>ML pillar No.30 : N 22<sup>0</sup> 00' 45.2"/E 85<sup>0</sup> 26' 41.1"  ML pillar No.31 : N 21<sup>0</sup> 00' 52.1"/E 85<sup>0</sup> 26' 42.8"</p> <p>Again another illegal road has been constructed on the safety zone in between pillar No.6 &amp; 7 over a length of 95.3 m x 15 m = 1432.50 Sq.m Or 0.143 ha. the GPS readings of the same is as follows:</p> <p>ML pillar No.6 : N 21<sup>0</sup> 59' 41.9"/E 85<sup>0</sup> 26' 0.0"  ML pillar No.7 : N 21<sup>0</sup> 59' 04.0"/E 85<sup>0</sup> 26' 01.7"</p> <p>Further, another road has been constructed illegally in between pillar No.31 &amp; 32 over a length of 240 m x 3 m = 720 Sq.m OR 0.072 ha on the safety zone. The GPS reading is as follows:</p> <p>ML pillar No.31 : N 22<sup>0</sup> 00' 45.2"/E 85<sup>0</sup> 26' 41.8"  ML pillar No.32 : N 21<sup>0</sup> 00' 52.1"/E 85<sup>0</sup> 26' 42.8"</p>	<p>The Safety zone has been fenced and inside the safety zone plantation has been done. (Photographs attached).</p>
5.	<p>The safety zone has been illegally broken in between pillar No.29 to 30 over a length of 23 m x 3 m = 69 Sq.m or 0.0069 ha.</p>	<p>This area has been fenced and inside the safety zone plantation has been done.</p>
6.	<p>One crusher unit along with mineral stacking yard and some building have been constructed over an area of 4.47 ha violation the land use pattern approved by the MoEF, GoI. The GPS reading of that area is N 21<sup>0</sup> 59' 41.3 “, E 85<sup>0</sup> 26' 03.9”</p>	<p>The user agency has already dismantled the Crusher Unit and the building.</p>
7.	<p>The ML pillar though posted recently, the pillar number chainage and bearing have not been written on that pillar which violates the stipulation of the MoEF, GoI.</p>	<p>All the ML pillars have been serially numbered with chainage and bearing along with the GPS reading inscribed in them.</p>
8.	<p>The user agency has allowed for construction of one “Brudhashram” in between pillar No.42 and 43 over a length of 50 m x 7.5 me = 375 Sq.m or 0.0375 ha. The GPS reading is :</p> <p>ML pillar No.42 : N 22<sup>0</sup> 02' 4.98"/E 85<sup>0</sup> 26' 21.24"  ML pillar No.43 : N 22<sup>0</sup> 01' 58.2"/E 85<sup>0</sup> 26' 30.64"</p>	<p>Brudhashram boundary wall have been realigned excluding the forest area.</p>
9.	<p>Reclamation and Rehabilitation of mined out pits and dump has not been done properly at any places. Steps have not been taken to enrich the unused forest area located within the lease area which violates the stipulations imposed by the MoEF, GoI.</p> <p>Toe walls have not been properly maintained at many places at the foot hill of the dumps which are left dangerously. It may cause soil erosion in that area.</p>	<p>Reclamation and rehabilitation of Manmora Manganese Ore pit has been taken up through embankment and back filling with slime. The stabilization of two Iron Ore OB dump and one Manganese OB dump has been taken up through plantation. (Photographs attached).</p>



The State Govt. vide letter No.10F(Cons)257/2014-18356/F&E dated 15.10.2015 has submitted application for change in land use pattern over already diverted 567.087 ha of forest land in Joda East Iron Ore Mine and Manmora Manganese Mines by M/s Tata Steel Ltd. The user agency has said that State Govt.'s report in respect of the OB dumps and slurry pipeline have been included in the proposal for change in land use pattern over already diverted forest land of 567.087 ha. Ministry vide letter No.8-32/1993-FC (Vol-II) dated 10.10.2017 has accorded in-principle approval for change in land use pattern over already diverted forest land of 567.087 ha of forest land.

Regarding, status of the OR Case No.63CH of 2011-12 in JMFC Court, Barbil, the State Govt. vide letter No.24838/FE&CC dated 30.11.2023 has informed that one OR Case vide OR No.63CH of 2011-12 was booked & Prosecution Report vide PR No.20 of 2011-12 has been sanctioned and submitted to the Hon'ble JMFC, Barbil vide letter No.1846 dated 12.03.2012 of DFO, Keonjhar for taking necessary legal action against the offenders. Further, as reported by the DFO, Keonjhar Division, in the meantime the cognizance has been taken by the learned Court JMFC, Barbil. The Asst. Public Prosecutor has been requested to finalize the case at the earliest by taking efforts for speedy trial.



**Photographs of Safety zone and boundary pillars**

**7. Whether proposal involves rehabilitation of displaced persons. If yes, whether rehabilitation plan has been prepared by the State Government or not:**

The State Govt. has reported that there is no displacement of any human habitation. Hence, rehabilitation and resettlement plan is not required.

**8. Reclamation plan:**

The State Govt. has reported that the Phased Reclamation Plan and Afforestation Programme has been submitted. This plan includes reclamation of exhausted pits by back filling with mine waste materials, take up block plantation over the stabilized dumps as well as vacant areas. The user agency has furnished an undertaking to execute this work.

**9. Details on catchment and command area under the project:**

Not reported.

**10. Cost benefit ratio:**

As reported, the total benefit of due to the proposed project comes to Rs.63 Crores. The loss on forest including environmental loss, NPV cost and other mandatory payments comes to Rs.2,67 Crores. Hence, the Cost-Benefit Ratio is reported to be 1 : 23.55.

**11. Recommendations of the Principal Chief Conservator of Forests/State Government:**

The forest area proposed for diversion has been duly recommended by PCCF.

**12. Utility of the project:**

As reported by State Govt., the project has direct employment for 800 persons which will increase gradually.

**Numbers of Scheduled Caste/Scheduled Tribes to be benefited by the project:**

Not reported.

**13. (a) Whether land being diverted has any socio-cultural/ religious value:**

Not reported.

**(b) Whether any sacred grove or very old growth trees/forests exist in the areas proposed for diversion:**

Not reported.

**(c) Whether the land under diversion forms part of any unique eco-system:**

No such report available.

**14. Situation with respect to any Protected Area:**

The nearest Protected Area is Similipal National Park, which is about 70 Km away from the project.

**15. Any other information relating to the project:**

Not reported.



**16. Recommendations of Dy. Director General of Forests (Central) along with detailed reasons:**

1. The Mining Scheme of Joda East Iron Ore Mines including Progressive Mines Closure Plan for the period from 2010-11 to 2014-15 was approved by the Controller of Mines (Central Zone) vide letter No.314(3)2009-MCCM(CZ)/MS-46 dated 02.07.2010. The Review of Mining Plan in respect of Joda East Iron Ore Mines of M/s Tata Steel Limited for the period 2020-21 to 2024-25 has been approved by the Regional Controller of Mines, IBM, Bhubaneswar vide letter No.RMP/A/43-ORI/BHU/2019-20/2373 dated 21.02.2020.
2. As reported by the State Govt. there is no displacement of people due to this project. Hence, rehabilitation and resettlement plan is not required.
3. **Compensatory Afforestation:** In lieu of 32.425 ha of virgin DLC forest land proposed to be used for mining & allied activities additionally, 32.425 ha of non-forest Govt. land has been identified by State Govt. for the purpose of raising compensatory in village Raba under Telkoi Tahsil of Keonjhar district. Further, to accommodate balance seedlings of 25,940 (32,425 nos. – 6,485 nos.) or 26,000 nos., 26.00 ha of degraded forest land has been identified in Kalimati RF of Ghatagaon Range of Keonjhar Forest Division. However, as per Para 7.9 (vi) of Chapter 7 of Consolidated Guidelines and Clarification issued under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and Van (Sanrakshan Evam Samvardhan) Rules, 2023, the State Govt. State Govt. should also provide equivalent non-forest land for raising C.A. in lieu of forest land earmarked for Safety zone. **So, the user agency has to identify additional 8.568 ha of non-forest land for CA in lieu of Safety Zone.**
4. **Effectiveness of measures taken against Encroachment/violation :** The Safety zone has been fenced and inside the safety zone, plantation has been done. The Brudhashram boundary wall have been realigned leaving the forest area. The Crusher Unit and Buildings has been dismantled. The OB dump area and slurry pipeline inside the mining lease area and for the forest land involved, re-diversion proposal has been approved by MoEF vide letter No.8-32/1993-FC (Vol-II) dated 10.10.2017
5. During site inspection, it was observed that there is a difference between KML of proposed 41.819 ha forest land and the physically demarcated area with boundary pillar. The user agency has furnished revised KML file of the proposed forest land for diversion which is being sent along with the report.
6. As the area is coming under Elephant Habitat Zone-2 as per ORSAC and there is movement of elephant often noticed in this area, Wildlife Conservation Plan with special emphasis to mitigate the adverse impact on elephant movement as well as conservation and protection of other wildlife found in and around the proposed area is required. To address the issue of wildlife conservation, the State Govt. has recommended for Site Specific Wildlife Conservation Plan duly approved by CWLW, Odisha. Besides, State Govt. has also recommended that the user agency shall pay towards cost of Regional Wildlife Management Plan for the entire ML area.
7. The number of trees to be felled is large. To minimize the adverse ecological impact, trees should be felled in a phased manner and when become absolutely necessary. The user agency shall explore the possibility of successful transplantation of maximum number of trees identified to be felled under strict supervision of the State Forest Department.

With above facts and observation made during field inspection, diversion of 41.819 ha of forest land (32.425 ha of DLC forest land for mining & allied activities, Safety zone area of 8.568 ha and greenery of 0.826 ha) is recommended with standard condition and additional non-forest land of 8.568 ha for C.A. in lieu of Safety zone.



(A.T. MISHRA)

**DY. DIRECTOR GENERAL OF FORESTS (C)**

**MONITORING OF THE STIPULATED CONDITIONS IN DIVERSION OF 567.087 HA OF FOREST LAND (INCLUDING 54.470 HA OF DLC FOREST LAND) IN KEONJHAR FOREST DIVISION FOR RENEWAL OF MINING LEASE FOR IRON AND MANGANESE ORE MINING IN JODA EAST IRON AND MANMORA MINES OF M/S TATS IRON & STEEL COMPANY LTD. (TISCO), APPROVED BY THE GOVT. OF INDIA UNDER SECTION 2 OF THE FOREST (CONSERVATION) ACT, 1980.**

The status of compliance on stipulated conditions was monitored by the undersigned on 10.02.2024 along with the Forest officials of Keonjhar Forest Division and representatives from M/s Tata Steel Ltd.

**PART-I**  
**(GENERAL PARTICULARS)**

1. Name/purpose of the proposal : Diversion of 567.087 ha of forest land (including 54.470 ha of DLC forest land) in Keonjhar Forest Division for renewal of mining lease for Iron & Manganese Ore mining in Joda East Iron Ore Mine and Manmora Manganese Mine of M/s Tata Iron & Steel Company Ltd. (TISCO), Orissa.
2. No. and date of Govt. of India's letter according permission : 8-32/1993-FC (Vol.II) dated 24.09.2007
3. Area permitted to be diverted (In ha) : 567.087 ha
4. District and Forest Division : Keonjhar & Keonjhar Forest Division.
5. Area actually diverted(in ha) : 567.087 ha

**PART-II**  
**(DETAILS OF COMPENSATORY AFFORESTATION)**

The DFO, Keonjhar reported that the user agency has deposited Rs.3,84,000/- towards cost of compensatory afforestation over 13.48 ha of non forest land in Tala-Baitarani under Telkoi Tahasil of Keonjhar District. Preliminary operation has been done during theyear 2020-21 and plantation has been done in the year 2022-23 over 13.48 ha.

Name of site	:	Tala-Baitarani
Name of Block	:	Telkoi
Name of Range	:	Telkoi
Name of Division	:	Keonjhar
District	:	Keonjhar
Area of the plantation	:	13.48 ha
Year of plantation	:	2022-23.
No. of seedlings planted	:	16,895
Species grown	:	Mahua ( <i>Madhuca indica</i> ), Amla ( <i>Emblica officinalis</i> ), Bamboo ( <i>Dendrocalamus strictes</i> ), Karanja ( <i>Pongamia pinnata</i> ), Teak ( <i>Tectona grandis</i> ), Sissoo ( <i>Dalbergia sisoo</i> ), Gambhar ( <i>Gmelina arobrea</i> ), Neem ( <i>Azadirachta indica</i> ) etc.
Observation	:	Plantation growth was found satisfactory.

**PART III**  
**(PLANTING OF DWARF TREES IN CASE OF TRANSMISSION LINE)**

Not applicable

**PART-IV**  
**(RECLAMATION OF THE AREA WORKED UNDER MINING/QUARRYING)**

The reclamation has not yet been started as the mining activities has yet not completed in the iron ore mines. However, the Manmora manganese mine has been completely exhausted and physical reclamation work has been completed by filling it with the slime of iron ore beneficiation. When this slime will settle down then as reported by the user agency, plantation will be taken up on this void for biological reclamation.

**PART-V**  
**(CONDITIONS STIPULATED BY THE GOVT. OF INDIA OTHER THAN MENTIONED ABOVE)**

Sl. No.	Condition	Compliance
1	Legal status of the forest land shall remain unchanged.	Complied.
2 (i)	Compensatory Afforestation shall be raised and maintained by the State Forest Department at the project cost.	As reported in Part-II above.
(ii)	Fencing, protection and generation of the safety zone area (7.5 metres strip all along the outer boundary of the mining lease area) shall be done at the project cost. Besides this, afforestation on degraded forest land, to be selected elsewhere measuring one and half times the area under safety zone, shall also be done at the project cost.	The user agency has deposited Rs.3,42,800/- towards cost of fencing, protection and re-generation of Safety zone over 8.568 ha and Rs.4,90,600/- has been deposited towards the cost of afforestation over one and half times of safety zone area of 13.00 ha degraded forest land identified in Narayanpur RF. Safety zone of 7.5 meter width all along the mining lease boundary have been maintained. The Safety zone plantation over 8.568 ha has been done during the year 2011-12 and 1.5 times safety zone area done during 2011-12.
(iii)	Wherever possible and technically feasible, the User Agency shall undertake afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost.	As reported by the DFO, Keonjhar a scheme for afforestation measures in the blanks within the lease area as well as along the roads outside the lease area has been prepared and technically approved by RCCF, Rourkela with a financial outlay of Rs.16,17,000/-. Subsequently, the revised scheme has been approved by RCCF, Rourkela on 21.12.2021 with a financial outlay of Rs.18,85,800/- at wage rate pf Rs.315/- per MD. The plantation scheme will be done by the user agency in the blanks within the lease area in consultation with the DFO, Keonjhar.



3 Following activities shall be undertaken by the State Forest Department at the project cost:

(i) Proper mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented. As reported by DFO, Keonjhar a scheme for proper mitigative measures to minimize soil erosion and choking of streams has been prepared and technically approved by RCCF, Rourkela on 01.09.2020 with a financial outlay of Rs.48,22,730/-. Subsequently the revised scheme has been approved by RCCF, Rourkela on 21.12.2021 with a financial outlay of Rs.49,78,000/- at wage rate of Rs.315/- per MD. The mitigative measures will be done by the user agency in consultation with DFO, Keonjhar.

(ii) Planting of adequate drought hardy plant species and sowing of seeds to arrest soil erosion. As reported by the DFO, Keonjhar a scheme for planting of adequate drought hardy plant species and sowing of seeds to arrest soil erosion has been prepared and technically approved by RCCF, Rourkela on 01.09.2020 with a financial outlay of Rs.16,38,700/-. Subsequently, the revised scheme has been approved by the RCCF, Rourkela on 21.12.2021 with a financial outlay of Rs.23,22,300/- at wage rate of Rs.315/- per MD. The scheme will be done by the user agency in consultation with the DFO, Keonjhar.

(iii) Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour. Four nos. of Check dams have been constructed near pillar No.21,52, 30 & 54. Toe walls have been constructed on the toe of the dump slopes of all-along the overburden dump yard near pillar No.17 to 27 & 31 to arrest sliding down of OB and check the run off during rainy season. Garland drains have also been maintained 2 meter away all along the toe wall.

4 The period of diversion under this approval shall be twenty (20) years subject to possession of valid lease by the User Agency under the MMDR Act, 1957. The DFO, Keonjhar reported that the user agency has applied for 3<sup>rd</sup> renewal of mining lease on 27.04.2004 as provided under Rule 24A(I) of the Mineral Concession Rules, 1960. In the meanwhile State Govt. conveyed order No.III(MN)SM(RML)-01/2008/3273/SM dated 18.04.2015 for Manmora for extension of the lease period upto 31.03.2030 under Section 8A(5) of MMDR Act, 1957 as amended by MMDR Act, 2015. Accordingly, the Supplementary Lease deed was executed on 05.05.2015 and the lease is valid upto 31.03.2030 under MMDR Act, 1957.

5 (i) The User Agency shall take up planting work on the static dumps during the advance mining operation. Being complied.

(ii) All the dumps shall be fully reclaimed by afforestation immediately after closure of the mine in the shortest possible period under supervision of the State Forest Department. As reported by the user agency all the mined out pits and dumps will be reclaimed by afforestation immediately after closure of the mine in the shortest possible period under the supervision of

State Forest Department and as per the final Mine Closure Plan duly approved by IBM.

- 6 Any tree felling shall be done only when it is absolutely necessary and unavoidable, and that too under strict supervision of the State Forest Department. As reported by the DFO, Keonjhar tree felling has been allowed over the diverted virgin forest land within the mining lease as per approved mining plan by IMB and as per requirement in phased manner.
- 7 No damage to the flora and fauna of the area shall be caused. Being complied.
- 8 Reclamation Plan shall be strictly implemented which shall be monitored regularly by the State Forest Department. As reported in Part-IV above.
- 9 It shall be ensure that no labour camps are set up inside the forest area. Reported to be complied.
- 10 The mining lease area shall be demarcated on ground at the project cost, using four feet high RCC pillars, with each pillar inscribed with th serial number, forward and backward bearings and distance between two adjacent pillars. Complied.
- 11 The forest land shall not be used for any purpose other than that specified in the proposal. Being complied.
- 12 Any other condition that CCF (Central), Regional Office, Bhubaneswar may impose from time to time for protection and improvement of flora and fauna in the forest area, shall also be applicable.

The following additional conditional conditions have been imposed by Regional Office, MoEF&CC, Bhubaneswar vide letter No.8-154/FCE dated 18.10.2007 and the compliance is as follows:

- 1 User Agency shall submit an undertaking to contribute proportionately towards Elephant Depredation Scheme as required and to be prepared by the State Forest Department. As reported by the DFO, Keonjhar the user agency has deposited Rs.2,88,56,999/- @ Rs.43,000/- towards the cost of Regional Wildlife Management Plan and Rs.7,01,91,000/- towards Site Specific Wildlife Conservation Plan. The user agency has furnished an undertaking to contribute proportionately towards Elephant Depredation Scheme as required and to be prepared by the State Forest Department.
2. An undertaking from the user agency shall also be obtained to the effect that the required fund or proportionate contribution of Biodiversity Conservation Plan of the district/zone shall be provided by the project authority to the Forest Department as per the requirement and as may be asked by the forest department. As reported by the DFO, Keonjhar the user agency has furnished an undertaking to the effect that the required fund or proportionate contribution of Biodiversity Conservation Plan of the district/zone shall be provided by the project authority to the Forest Department as per the requirement and as may be asked by the forest department.

3. The user agency shall submit a land use map every year using the latest imagery of highest resolution within a buffer zone of 5 Km around the project site, prepared by ORSAC. The first reference land use map from ORSAC shall be furnished by the user agency to this office within 6 (six) months or before carrying out any mining operation whichever is earlier.
- The user agency has furnished Satellite Imagery Map of 2020 prepared by ORSAC as Annexure-I.

**PART - VI**

**CONDITIONS IMPOSED BY THE STATE GOVT. IN ADDITION TO THE GOVT. OF INDIA'S CONDITIONS AND OTHER STEPS TAKEN TO PRESERVE FOREST, WILDLIFE AND PREVENT SOIL EROSION ETC.)**

Nil


**PART-VII**

**(MONITORING)**

1. Whether any committee has been formed for : No.  
monitoring of the action on conditions stipulated.
2. If no, give reasons. If yes, give details of the : Not known.  
committee.
3. Reports of the Monitoring Committee, if any. : Nil.

**PART-VIII**

1. Abstract reports of inspection of Forest Officers, if :  
any.
2. Remarks of the inspecting officer in regard to :  
progress of the action on stipulated conditions.  
Effect of the project on forest and wildlife.



**(A. T. Mishra)**

**Dy. Director General of Forests (Central)**

**MONITORING OF COMPLIANCE TO THE CONDITIONS STIPULATED IN THE STAGE-I (IN-PRINCIPLE) APPROVAL GRANTED BY MINISTRY VIDE LETTER NO.8-32/1993-FC (VOL.II) DATED 10.10.2017 FOR CHANGE IN LAND USE PATTERN OVER ALREADY DIVERTED AREA OF 567.087 HA OF FOREST LAND IN JODA EAST IRON & MANMORA MANGANESE MINES IN KEONJHAR FOREST DIVISION OF KEONJHAR DISTRICT BY M/S TATA STEEL LTD.**

- i. **The State Govt. shall ensure the compliance of all the conditions stipulated in final approval/Stage-II clearance order dated 24.09.2007 for diversion of 567.087 ha of forest land in Joda East Iron Ore Mine & Manmora Manganese Mine in Keonjhar Forest Division in Keonjhar District in the State of Odisha by M/s Tata Iron & Steel Company (TISCO) renamed as Tata Steel Ltd.**

The compliance report of the conditions stipulated in final approval/Stage-II clearance order dated 24.09.2007 as submitted by the DFO, Keonjhar is enclosed as **Annexure-I**.

- ii. **The user agency shall pay the NPV as per approval granted under FC Act if not paid earlier.**

The DFO, Keonjhar has reported that the user agency has already deposited **Rs.37,50,01,316/-** towards NPV for entire forest land involved in the mining lease. The details of deposit as reported by DFO, Keonjhar is given below:

Sl. No.	Forest Area (in ha)	Amount deposited (in Rs.)	Particulars of deposit.
1	511.432	29,66,30,560.00	Deposited vide DD No.062978 dt. 03.12.2005 to DFO, Keonjhar.
2	55.656	3,22,79,900.00	Deposited vide DD No.008392 dt.05.10.2006
3	41.819	3,05,27,870.00	Deposited vide Banker's Cheque No.46905 dt.02.07.2010.
4	16.574	1,55,62,986.00	Deposited vided UTR No.CNRBR520116062100656502 dt.21.06.2016.
<b>Total</b>		<b>37,50,01,316.00</b>	

- iii. **The user agency shall abide by all the conditions on which the forest land was leased to the original user agency.**

The user agency has furnished an undertaking to this effect which is enclosed as **Annexure-II**.

- iv. **The user agency shall pay NPV at the rate 20 percent for the area under violation (5.01 ha) for each year since the violation of Forest (Conservation) Act, 180 has commenced.**

As reported by the DFO, Keonjhar the user agency has deposited an amount of Rs.89,21,744/- through RTGS vide UTR No. HDFCR52018041173638207 dated 11.04.2018 out of which a sum of **Rs.70,76,144/-** deposited towards Penal NPV over 5.01 ha forest land utilized for the period from 07.02.2008 to 10.10.2017 i.e. date of Stage-I approval = 9.674 years for non-forestry activity without prior approval from Central Govt. (**Annexure-III**).

- v. **User agency shall raise Penal CA on degraded forest land equivalent to the land utilized in violation of the provision of Forest (Conservation) Act, 1980 (5.01 ha).**

The DFO, Keonjhar has reported that the user agency has deposited an amount of Rs.89,21,744/- through RTGS vide UTR No.HDFCR52018041173638207 dated 11.04.2018 out of which a sum of **Rs.18,45,600/-** deposited towards Penal CA over 5.01 ha degraded forest land identified in Baitarani East-A PRF. (**Annexure-III**).

The differential amount of Rs.3,07,900/- has been deposited towards additional cost for Penal CA due to revision of wage rate of Rs.280/- per MD through RTGS vide UTR No.N119190811249466 dated 29.04.2019 (**Annexure-III A**).

Further an amount of Rs.7,25,500/- has been deposited towards differential cost of Penal CA due to revision of wage rate @ 315/- per MD through RTGS vide UTR No.SBIN322082817986 dated 23.03.2022 (**Annexure-III B**).

- vi. **User agency shall submit undertaking to the additional penalty if so recommended by the Ministry.**

The user agency has submitted an undertaking to this effect which is enclosed as **Annexure-II**.

- vii. **The user agency shall obtain the approval granted under Forest (Conservation) Act, 1980 revalidated on each revision mining plan/scheme.**

The user agency has submitted an undertaking to this effect which is enclosed as **Annexure-II**.

- viii. **The user agency shall abide by any other condition that may be stipulated by Central Govt./Regional Office/State Govt. in future in the interest of conservation, protection and development of forests & wildlife.**

The user agency has submitted an undertaking to this effect which is enclosed as **Annexure-II**.

- ix. **The user agency shall submit the Annual Self Compliance Report in respect of above conditions and also to the conditions stipulated in Stage-II clearance order dated 24.09.2007 to the concerned State Govt. concerned Regional Office and this Ministry by the end of March every year regularly.**

The user agency has submitted an undertaking to this effect which is enclosed as **Annexure-II**.

- x. **Any other condition that the concern Regional Office of this Ministry, may stipulate, from time to time, in the interest of conservation, protection and development of forests & wildlife.**

The user agency has submitted an undertaking to this effect which is enclosed as **Annexure-II**.

- xi. **The State Govt. and User Agency shall comply the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and National Green Tribunal (NGT) Order (s) pertaining to this projects, if any, for the time being in force, as applicable to the project.**

The user agency has submitted an undertaking to this effect which is enclosed as **Annexure-II**.

  
(A. T. Mishra)

**Dy. Director General of Forests (Central)**

Compliance to the conditions stipulated in the Stage-I (in-principle) approval vide F. No. 8-32/1993-FC (Vol-II) dated 10.10.2017 of MoEF&CC, Govt. of India for Change in Land Use Pattern over already diverted area of 567.087 ha. of forest land in Joda East Iron & Manmora Manganese Mine in Keonjhar Forest Division of Keonjhar District in the State of Odisha by M/s Tata Iron & Steel Company Limited (TISCO) renamed as Tata Steel Ltd.

3.

- i. The State Govt. shall ensure the compliance of all the conditions stipulated in final approval/stage-II clearance order dated 24.09.2007 for diversion of 567.087 ha. of forest land in Joda East Iron Ore Mine & Manmora Manganese Mine in Keonjhar Forest Division in Keonjhar District in the state of Odisha by M/s Tata Iron & Steel Company (TISCO) renamed as Tata Steel Ltd.

The compliance report of the conditions stipulated in final approval/ Stage-II clearance order dated 24.09.2007 is enclosed as **Annexure-I**.

- ii. The user agency shall pay the NPV as per approval granted under FC Act if not paid earlier.

The user agency has already deposited Rs. **37,50,01,316.00** (Rupees thirty-seven crore fifty lakh one thousand three hundred sixteen) only towards Net Present Value (NPV) for entire forest land involved in the mining lease. The details of deposit is given below-

Sl. No.	Forest Area (in ha)	Amount Deposited (in Rs.)	Particulars of Deposit
1	511.432	296630560.00	Rs. 296630560.00 deposited vide DD no. 062978 dated 03.12.2005 to DFO, Keonjhar for 511.432 ha.
2	55.656	32279900.00	Rs. 32279900.00 vide SBI DD no. 008392 dated 05.10.2006 for 55.656 ha.
3	41.819	30527870.00	Rs. 30527870.00 vide Banker's Cheque no. 46905 dt. 02/07/2010 for 41.819 ha.
4	16.574	15562986.00	Rs. 15562986.00 through RTGS vide UTR No. CNRBR52016062100656502 dt. 21.06.2016 for 16.574 ha.
	<b>Total</b>	<b>37,50,01,316.00</b>	

- iii. The user agency shall abide by all the conditions on which the forest land was leased to the original User Agency.

The user agency shall abide by all the conditions on which the forest land was leased to the Tata Steel Limited i.e. original user agency. An undertaking to this effect is enclosed as **Annexure-II**.

- iv. **The user agency shall pay NPV at the rate 20 percent for the area under violation (5.01 ha.), for each year since the violation of Forest (Conservation) Act 1980 has commenced.**

The user agency has deposited an amount of Rs. 89,21,744/- through RTGS vide UTR No. HDFCR52018041173638207 dated 11.04.2018 out of which a sum of Rs. 70,76,144/- deposited towards Penal NPV over 5.01 ha forest land utilized for the period from 07.02.2008 to 10.10.2017 i.e. date of Stage- I approval = 9.674 years for non-forestry activity without prior approval from Central Govt. (Copy enclosed as **Annexure-III**).

- v. **User agency shall raise penal CA on de-graded forest land equivalent to the land utilized in violation of the provision of Forest (Conservation) Act, 1980 (5.01 ha.)**

The user agency has deposited an amount of Rs. 8921744.00 (Rupees Eighty Nine lakhs Twenty One Thousand Seven Hundred and Forty Four) only out of which Rs. 1845600.00 (Rupees Eighteen Lakhs Forty Five Thousand and Six Hundred) only towards Penal Compensatory Afforestation over 5.01 ha. de-graded forest land identified in Baitarani East- A PRF has been deposited through RTGS vide UTR No. HDFCR52018041173638207 dated 11.04.2018 through HDFC Bank (**Annexure- III**).

The differential amount of Rs. 3,07,900.00 (Rupees Three Lakhs Seven Thousands Nine Hundred) only has been deposited towards additional cost for Penal Compensatory Afforestation due to revision of wage rate of Rs. 280.00 per man days through RTGS vide UTR No. N119190811249466 dated 29.04.2019 of HDFC Bank (**Annexure-III A**).

Further an amount of Rs. 7,25,500.00 (Rupees Seven lakhs Twenty Five Thousands Five Hundred) only has been deposited towards differential cost for Penal Compensatory Afforestation due to revision of wage rate @ Rs. 315.00 per man days through TRGS vide UTR No. SBIN322082817986 dated 23.03.2022 of State Bank of India (**Annexure-III B**).

- vi. **User agency shall submit undertaking to pay the additional penalty if so recommended by the Ministry.**

An undertaking submitted by user agency to this effect is enclosed as **Annexure-II**.

- vii. **The User agency shall obtain the approval granted under Forest (Conservation) Act, 1980 revalidated on each revision mining plan/scheme.**

An undertaking submitted by user agency to this effect is enclosed as **Annexure-II**.

- viii. **The User agency shall abide by any other condition that may be stipulated by Central Govt./Regional Offices/State Govt. in future in the interest of conservation, protection and development of forests & wildlife.**

The User agency shall abide by any other condition that may be stipulated by the Central Govt./Regional Offices/State Govt. in future in the interest of conservation,

protection and development of forests & wildlife and an undertaking submitted by user agency to this effect is enclosed as **Annexure-II**.

- ix. **The User agency shall submit the Annual Self Compliance Report in respect of above conditions and also to the conditions stipulated in Stage-II clearance order dated 24.09.2007 to the State Govt. concerned Regional Office and this Ministry by the end of march every year regularly.**

The User agency shall submit the Annual self-compliance report in respect of the above conditions and also the conditions stipulated in Stage-II clearance order F. No. 8-31/1993-FC (Vol- II) dated 24.09.2007 to the State Government concerned and Regional Office of this Ministry by the end of March every year regularly and an undertaking submitted by user agency to this effect is enclosed as **Annexure-II**.

- x. **Any other condition that the concern Regional Office of this Ministry, may stipulate, from time to time, in the interest of conservation, protection and development of forests & wildlife.**

The User agency shall abide by any other condition that may be stipulated from time to time by the concerned Regional Office of the Ministry in future in the interest of conservation, protection and development of forests & wildlife and an undertaking submitted by user agency to this effect is enclosed as **Annexure-II**.

- xi. **The State Govt. and User Agency shall comply the provisions of the all Acts, Rules, Regulations, Guideline, Hon'ble Court Order (s) and National Green Tribunal (NGT) Order(s) pertaining to this projects, if any, for the time being in force, as applicable to the projects.**

The User agency shall comply the provisions of all Acts, Rules, Regulations, Guide Lines, Hon'ble Court Order (s) and National Green Tribunal (NGT) Order(s) pertaining to this projects, if any, required to be complied by us, for the time being in force, as applicable to the project and an undertaking submitted by user agency to this effect has been given in **Annexure-II**.

  
Divisional Forest Officer,  
Keonjhar Division.

*File*  
27/2



**ANNEXURE - II**

**UNDERTAKINGS**

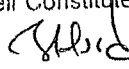
We hereby undertake:

1. To abide by all the conditions of the Supplementary Lease Deed vide e-Registration No. 11031500223 dated 06.05.2015 and 11031500226 dated 07.05.2015 extending the validity of lease of Joda East Iron & Manmora Manganese Mine up to 31.03.2030 as per the MMDR Act (Amendment) 2015 wherein the forest land has also been leased to Tata Steel Ltd.
2. To pay the additional penalty if so recommended by the Ministry.
3. To obtain the approval granted under Forest (Conservation) Act, 1980, revalidated on each revision, of mining plan of the scheme.
4. To abide by any other condition may be stipulated by Central Govt. / Regional Offices/State Govt. in future in the interest of conservation, protection and development of forests and wildlife.
5. To submit the annual Self-Compliance Report in respect of the conditions stipulated in the Stage-I approval of Change of Land Use Pattern of Joda East Iron & Manmora Manganese Mines approved vide F. No. 8-31/1993-FC (Vol II) dated 10.10.2017 and also to the conditions stipulated in Stage-II clearance vide order F. No. 8-31/1993-FC (Vol. II) dated 24.09.2007 to the State Govt., concerned Regional Office and the MoEF & CC of Govt. of India by the end of March every year regularly.
6. To abide by the other conditions that the Regional Office, Bhubaneswar of this Ministry, may stipulate from time to time in the interest of Conservation, Protection and development of forests & wildlife.
7. To comply the provisions of all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and National Green Tribunal (NGT) Order(s) pertaining to Joda East Iron & Manmora Manganese Mines, if any, for the implementing in force as applicable in the project.

**COUNTERSIGNED**

  
Divisional Forest Officer,  
Keonjhar Division

FOR TATA STEEL LTD.  
By their Constituted Attorney

  
(GANESH PRASAD SAHU)  
Head (Ferro Alloys Production)  
Ferro Alloys & Minerals Division  
**LESSEE**

**HDFC BANK**

HDFC Bank Ltd.  
C/o. Ruchit Honda Building  
1st Floor, Clearing Dept  
105, SNP Area, Sakchi,  
Jamshedpur - 831 001  
Phone : (0657) 2234432  
Fax : (0657) 2235396

Dt. 11/04/2018

HDFC/CM/TS/2017-18/01

To whom it may concern

This is to certify that an amount of Rs. 8,92,17,44.00 (Eighty Nine lacs Twenty one thousand Seven hundred and forty four only) has been debited from A/C number 00870310000747 of TATA STEEL LTD. Through RTGS vide UTR no HDFCR52018041173638207 dated 11.04.2018.

Beneficiary Customer	ORISSA CAMPA
Bene Customer Ac/No	150825814860177
IFSC code	CORP0000633
UTR no	HDFCR52018041173638207

For HDFC Bank LTD.



(Authorized Signatory)

Vishal Sinha

Manager

0657-6555515

AGENCY COPY	
NEFT / RTGS CHALLAN for Ad-HOC CAMPA	
Date : 15-03-2018	
Agency Name.	TATA STEEL LIMITED KHONDBOND IRON AND MN MINES
Application No.	5814860177
Location.	ORRISA
Address.	Tata Steel Limited, Khondbond Iron & Mn. Mines, P.Keonjhar
Amount(In Rs)	8921744/-
Amount in Words :Eighty-Nine Lakh Twenty-One Thousand Seven Hundred and Forty-Four Rupees Only	
<b>NEFT/RTGS to be made as per following details;</b>	
Beneficiary Name:	ORRISA CAMPA
IFSC Code:	CORP0000633
Pay to Account No.	150825814860177
Bank Name & Address:	Corporation Bank FCS Bangalore, * Note : The proceeds of the payment will be credited to the respective CAMPA State Account.
<ul style="list-style-type: none"> <li>This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only</li> </ul>	

BANK COPY	
NEFT / RTGS CHALLAN for Ad-HOC CAMPA	
Date : 15-03-2018	
Agency Name.	TATA STEEL LIMITED KHONDBOND IRON AND MN MINES
Application No.	5814860177
Location.	ORRISA
Address:	Tata Steel Limited, Khondbond Iron & Mn. Mines, P. Keonjhar
Amount(In Rs)	8921744/-
Amount in Words :Eighty-Nine Lakh Twenty-One Thousand Seven Hundred and Forty-Four Rupees Only	
<b>NEFT/RTGS to be made as per following details;</b>	
Beneficiary Name:	ORRISA CAMPA
IFSC Code:	CORP0000633
Pay to Account No.	150825814860177
Bank Name & Address:	Corporation Bank FCS Bangalore, * Note : The proceeds of the payment will be credited to the respective CAMPA State Account.
<ul style="list-style-type: none"> <li>This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only</li> </ul>	

After making successful payment, User Agencies may send a line of confirmation through  
Email: [helpdeskcampa@corpbank.co.in](mailto:helpdeskcampa@corpbank.co.in)



ANNEXURE - 10-A

HDFC Bank Ltd.  
C/o. Ruchi Honda Building  
1st Floor, Clearing Dept.  
105, SNP Area, Sakchi,  
Jamshedpur - 831 001  
Phone : (0657) 2234432  
Fax : (0657) 2235396

Dt. 29.04.2019

HDFC/CM/TS/2019-20/01

To whom it may concern

This is to certify that an amount of Rs. 3,07,900.00 (Rs. Three Lacs Seven Thousand Nine Hundred only) has been debited from A/C number 00870310000747 of TATA STEEL LTD. Through NEFT vide UTR NO N119190811249466 dated 29.04.2019.

Bene Customer	ORISSA CAMPA
Bene Customer Ac/No	150825814860326
IFSC code	CORP0000371
UTR NO	N119190811249466

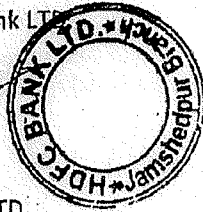
For HDFC Bank LTD

Vishal Sinha

HDFC Bank LTD

WBO Jamshedpur

0657-6555515



Regd. Office : HDFC Bank House, Senapati Bapat Marg, Lower Parel, Mumbai 400 013, www.hdfcbank.com  
CIN-L65920MH1994PLC080618

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AGENCY COPY	
NEFT / RTGS CHALLAN for Ad-HOC CAMPA	
Date : 24-04-2019	
Agency Name.	TATA STEEL LIMITED KHONDBOND IRON AND MN MINES
Application No.	5814860326
MoEF/SG File No.	NA
Location.	ORRISA
Address.	Tata Steel Limited, Khondbond Iron & Mn. Mines, P.Keonjhar
Amount(in Rs)	307900/-
Amount in Words :Three Lakh Seven Thousand Nine Hundred Rupees Only	
NEFT/RTGS to be made as per following details;	
Beneficiary Name:	ORRISA CAMPA
IFSC Code:	CORP0000371
Pay to Account No.	150825814860326 Valid only for this challan amount.
Bank Name & Address:	Corporation Bank Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003
<ul style="list-style-type: none"> <li>- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only</li> <li>- This challan is valid only for seven days.</li> </ul>	

BANK COPY	
NEFT / RTGS CHALLAN for Ad-HOC CAMPA	
Date : 24-04-2019	
Agency Name.	TATA STEEL LIMITED KHONDBOND IRON AND MN MINES
Application No.	5814860326
MoEF/SG File No.	NA
Location.	ORRISA
Address:	Tata Steel Limited, Khondbond Iron & Mn. Mines, P. Keonjhar
Amount(in Rs)	307900/-
Amount in Words :Three Lakh Seven Thousand Nine Hundred Rupees Only	
NEFT/RTGS to be made as per following details;	
Beneficiary Name:	ORRISA CAMPA
IFSC Code:	CORP0000371
Pay to Account No.	150825814860326 Valid only for this challan amount.
Bank Name & Address:	Corporation Bank Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003
<ul style="list-style-type: none"> <li>- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only</li> <li>- This challan is valid only for seven days.</li> </ul>	

After making successful payment, User Agencies may send a line of confirmation through  
Email: [helpdeskcampa@corpbank.co.in](mailto:helpdeskcampa@corpbank.co.in)

ANNEXURE-10B

**NEFT: Message Details**

UTR Number SBIN322082817986  
Transaction Branch 12635  
Value Date 23/03/2022  
Amount 725500 INR  
Commission 0

**Beneficiary Details**

Beneficiary Account 150825814860828  
Beneficiary Name ORRISA CAMPA  
Beneficiary Address UNION BANK OF INDIA

**IFSC Code**

UBIN0903710

**Remitting Customer Details**

Account Number 00000040080025794  
Remitter's Name TATA STEEL LTD  
Remitter's Address NOAMUNDI

**Sender's To Receiver Information**

LT309D12022

**Details of Payment**

## AGENCY COPY



## NEFT / RTGS CHALLAN for CAMPA Funds

Date : 21-03-2022

Agency Name.	TATA STEEL LIMITED KHONDBOND IRON AND MN MINES
Application No.	5814860828
MoEF/SG File No.	NA
Location.	ORRISA
Address.	Tata Steel Limited, Khondbond Iron & Mn. Mines, P.O./P.S.-Joda, Distt.- Keonjhar, Odisha.Keonjhar
Amount(in Rs)	725500/-

Amount in Words :Seven Lakh Twenty-Five Thousand Five  
Hundred Rupees Only

NEFT/RTGS to be made as per following  
details;

Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0903710
Pay to Account No.	150825814860828 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003

- This Challan is strictly to be used for making  
payment to CAMPA by NEFT/RTGS only

## BANK COPY



## NEFT / RTGS CHALLAN for CAMPA Funds

Date : 21-03-2022

Agency Name.	TATA STEEL LIMITED KHONDBOND IRON AND MN MINES
Application No.	5814860828
MoEF/SG File No.	NA
Location.	ORRISA
Address:	Tata Steel Limited, Khondbond Iron & Mn. Mines, P.O./P.S.-Joda, Distt.- Keonjhar, Odisha. Keonjhar
Amount(in Rs)	725500/-

Amount in Words :Seven Lakh Twenty-Five Thousand Five  
Hundred Rupees Only

NEFT/RTGS to be made as per following  
details;

Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0903710
Pay to Account No.	150825814860828 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003

- This Challan is strictly to be used for making  
payment to CAMPA by NEFT/RTGS only

After making successful payment, User Agencies may send a line of confirmation through  
Email: [helpdeskcampa@corpbank.co.in](mailto:helpdeskcampa@corpbank.co.in)

Note:After making the required payment through challan, if the payment status has not been updated  
even after 7 working days, then kindly mail a copy of your challan with transaction date to  
Email: [cb0371@unionbankofindia.com](mailto:cb0371@unionbankofindia.com)

**ANNEXURE-I**

**Compliance to the Conditions stipulated in the Stage-II clearance approved vide letter no. 8-32/1993-FC (Vol-II) dated 24.09.2007 of Govt. of India, MoEF against Joda East Iron and Manmora Mn. Mines of M/s TATA Steel LTD.**

Condition No.	Stipulation	Compliance
1	Legal status of the diverted forest land shall remain unchanged.	The legal status of forest land remain unchanged. In this regards the user agency has submitted an undertaking vide <b>Annexure-I</b>
2 (i)	Compensatory Afforestation shall be raised and maintained by State forest department at the project cost.	An area of 13.48 ha non-forest Govt. land has been identified in village Talabaitarani under Banspal Tahasil for CA. The user agency has deposited Rs. 3,84,000/- vide DD nos. 281723 to 281731 all dated 19.12.2006. Also the User Agency has deposited Rs. 5,88,42,336/- for 388.3144 ha preliminary operation has been done during the year 2021-22 & plantation has been done in the year 2022-23 over 13.48 ha.
(ii)	Fencing, protection and regeneration of the Safety Zone area (7.5 meters strips all along the outer boundary of the mining lease area) shall be done at the project cost. Besides this, afforestation on degraded forest land, to be selected elsewhere, measuring one and half times the area under safety zone, shall also be done at the project cost.	The user agency have deposited Rs.3,42,800.00 towards cost of fencing, protection and re-generation of Safety Zone over 8.568 ha. and Rs.4,90,600.00 have been deposited by the user agency towards the cost of afforestation over one and half time safety zone area of 13.00 ha degraded forest area identified in Narayanpur Reserve Forest. Safety Zone of 7.5 meter width all-along the mining lease boundary have been maintained. The safety zone plantation over 8.568 ha has been done during year 2011-12 & 1.5 times safety zone area done during the year 2011-12. The Safety Zone plantation has been verified in the field by the undersigned during field visit on dated 03.06.2022.
(iii)	Whenever possible and technically feasible, the user agency shall undertake afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost.	A scheme for afforestation measures in the blanks within the lease area as well as along the roads outside the lease area has been prepared and technically approved by RCCF, Rourkela vide memo No. 3312 dated 01.09.2020 with a financial outlay of Rs. 16.17,000.00 (Rupees Sixteen Lakhs Seventeen Thousand) only. Subsequently, the revised scheme has been approved by RCCF, Rourkela vide memo No.3813 dated 21.12.2021 with a financial outlay of Rs.18,85,800.00 (Rupees Eighteen Lakhs Eighty Five Thousand Eight Hundred) only at wage rate of Rs.315/- per man days (Revised scheme enclosed). The plantation will be done by the user agency in the blanks within the lease area in consultation with DFO, Keonjhar.
3	Following activities shall be undertaken by the State Forest Department at the project cost.	
(i)	Proper mitigative measures to minimise soil erosion and choking of streams shall be prepared and implemented.	A scheme for proper mitigative measures to minimise soil erosion and choking of streams has been prepared and technically approved by RCCF, Rourkela vide memo No. 3312 dated 01.09.2020 with a financial



		<p>outlay of Rs. 48,22,730.00 (Rupees Forty Eight Lakhs Twenty Two Seven Hundred Thirty) only. Subsequently, the revised scheme has been approved by RCCF, Rourkela vide memo No.3813 dated 21.12.2021 with a financial outlay of Rs. 49,78,000.00 (Rupees Forty Nine Lakhs Seventy Eight Thousand) only at wage rate of Rs.315/- per man days (Revised scheme enclosed). The mitigative measures will be done by the user agency in consultation with DFO, Keonjhar.</p>
(ii)	<p>Planting of adequate drought hardy plant species and sowing of seeds to arrest erosion.</p>	<p>A scheme for planting of adequate drought hardy plant species and sowing of seeds to arrest soil erosion has been prepared and technically approved by RCCF, Rourkela vide memo No. 3312 dated 01.09.2020 with a financial outlay of Rs. 16,38,700.00 (Rupees Sixteen Lakhs Thirty Eight Thousand Seven Hundred) only. Subsequently, the revised scheme has been approved by RCCF, Rourkela vide memo No.3813 dated 21.12.2021 with a financial outlay of Rs. 23,22,300.00 (Rupees Twenty Three Lakhs Twenty Two Thousand Three Hundred) only at wage rate of Rs.315/- per man days (Revised scheme enclosed). The planting of adequate drought hardy plant species and sowing of seeds to arrest soil erosion will be done by the user agency in consultation with DFO, Keonjhar.</p>
(iii)	<p>Construction of check dams, retention / toe walls to arrest sliding down of the excavated material along the contour.</p>	<p>4 nos. Check dams have been constructed near pillar No. 21, 52, 30 &amp; 54. Toe walls have been constructed on the toe of the dump slopes of all-along the over burden dump yards near pillar No. 17 to 27 &amp; 31 to arrest sliding down of OB &amp; check the run off during rainy season. Garland drains have also been maintained 2 meters away all-along the toe wall. The above work has been verified by the undersigned in the field during field visit dated 03.06.2022</p> <p>A scheme for construction of check dams retention/toe wall to arrest sliding down of the excavated material along the contour has been prepared and technically approved by RCCF, Rourkela vide memo No. 3312 dated 01.09.2020 with a financial outlay of Rs. 56,81,000.00 (Rupees Fifty Six Lakhs Eight One Thousand) only. Subsequently, the revised scheme has been approved by RCCF, Rourkela vide memo No.3813 dated 21.12.2021 with a financial outlay of Rs. 58,77,200.00 (Rupees Fifty Eight Lakhs Seventy Seven Thousand Two Hundred) only at wage rate of Rs.315/- per man days (Revised scheme enclosed). The construction of check dams retention/toe wall to arrest sliding down of the excavated material along the contour will be done by the user agency in consultation with DFO, Keonjhar.</p>

4	The period of diversion under this approval shall be twenty (20) years subject to possession of valid lease by User Agency under the MMDR Act, 1957 and the lease is valid till 31.03.2030 under MMDR Act, 1957.	M/s Tata Steel Ltd. has applied for 3rd renewal of mining lease on 27.04.2004 as provided under Rule 24A(I) of Mineral Concession Rules, 1960. In the meanwhile Special Secretary to Govt., GoO conveyed order No. III(A)SM-13/2012/3283/SM, Bhubaneswar dated 18.04.2015 for Joda East and order No. III(MN)SM(RML)-01/2008/3273/SM, Bhubaneswar dated 18.04.2015 for Manmora for extension of the lease period upto 31.03.2030 under Section 8A(5) of the M&M(D&R) Act, 1957 as amended by the MMDR Act, 2015. Accordingly, Supplementary Lease Deed was executed on 05.05.2015. And the lease is valid up to 31.03.2030 under MMDR Act, 1957.						
5 (i)	The user agency shall take up planting work on the static dumps during the advance mining operations.	Details of Plantation done on the dump slopes enclosed as <b>ANNEXURE-IA</b> . Dump slopping plantation has been verified by the undersigned on dated 03.06.2022.						
(ii)	All the dumps shall be fully reclaimed by afforestation immediately after closure of the mine in the shortest possible period under supervision of State Forest Department.	All the mined out pits and dumps will be reclaimed by afforestation immediately after closure of the mine in the shortest possible period under the supervision of State Forest Department and as per the final Mine closure plan duly approved by IBM. An undertaking to this effect is annexed as <b>ANNEXURE-IB</b> to reclaim the dumps and mined out pits by afforestation after closure of the mine. The details of the reclamation after closure of the mine has been furnished in the mine closure plan duly approved by the IBM and annexed herewith.						
6	Any tree felling shall be done only when it is absolutely necessary and unavoidable, and that too under strict supervision of the State Forest Department.	Tree felling has been allowed over the diverted virgin forest land within the mining lease as per approved mining plan by IBM & as per requirement in phased manner.						
		<table border="1"> <thead> <tr> <th>Year</th> <th>Area (in ha.)</th> </tr> </thead> <tbody> <tr> <td>1999</td> <td>55.00</td> </tr> <tr> <td>2002</td> <td>323.123</td> </tr> </tbody> </table>	Year	Area (in ha.)	1999	55.00	2002	323.123
Year	Area (in ha.)							
1999	55.00							
2002	323.123							
7	No damage to the flora and fauna of the area shall be caused.	An undertaking to this effect is annexed as <b>ANNEXURE-IB</b> stating that no damage to the Flora and Fauna of the area shall be caused.						
8	Reclamation plan shall be strictly implemented which shall be monitored regularly by the State Forest Department.	Reclamation done as per Reclamation Plan. The details shown in <b>ANNEXURE-IA</b> . Reclamation work has been verified by the undersigned on dated 03.06.2022.						
9	It shall be ensured that no labour camps are set up inside the forest area.	No labour camps are existing in forest land. An undertaking provided by the user agency to this effect is annexed as <b>ANNEXURE-IB</b> .						
10	The mining lease area shall be demarcated on ground at project cost, using four feet high RCC pillars, with each pillar inscribed with the serial number, forward and backward bearing and distance between two adjacent pillars.	4 feet RCC pillars as per IBM specification have been posted all along the lease boundary with serially numbered indicating forward & backward bearing and distance between two pillars. The work has been verified by the undersigned on dated 03.06.2022.						

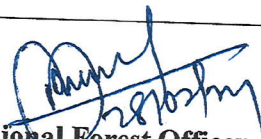
11	The forest land shall not be used for any purpose other than that specified in the proposal.	The forest land is used as per the land use pattern as specified in the approved Forest Diversion Proposal and an undertaking provided by the user agency to this effect is annexed as ANNEXURE-IB.  In-Principal approval (Stage-I) has been obtained vide No. 8-32/1993-FC(vol-II) dated 10.10.2017 for Change of Land Use Plan in the diverted Forest Land.
12	Any other condition that the CCF (Central), Regional Office, Bhubaneswar, may impose from time to time for protection and improvement of Flora and fauna in the forest area, shall also be applicable.	The Government of India, MoEF (Regional Office, BBSR) have imposed three other conditions vide letter no. 8-154/FCE dated 18.10.2007. Compliance submitted in separate sheet.

**Compliance to the additional Conditions imposed by the Government of India, MoEF (Regional Office, BBSR.) vide letter no. 8-154/FCE dated 18.10.2007 against Joda East Iron and Manmora Mn. Mines of M/s TATA Steel Ltd.**

Condition No.	Stipulation	Compliance
13	User Agency shall submit an undertaking to contribute proportionately towards Elephant Depredation scheme as required and to be prepared by the State Forest Department.	M/s Tata Steel Ltd has deposited Rs. 2,88,56,999/- @ Rs. 43,000.00 per Hectare over (671.093 ha. x Rs. 43,000.00) towards the cost of Regional Wildlife Management Plan in 3 instalments 1st- Rs. 26,26,880.00 vide DD No. 104151 dated 23.09.2006 and balance amount of Rs. 7439515.00 vide DD Nos. 281723 to 281731 all dated 19.12.2006, 2nd- Rs. 33,55,464/- vide UTR No. CNRBH13190563972 dated 09.07.2013 and Rs. 1,54,35,140/- vide RTGS vide UTR No. CNRBR52016012200695114 dated 22.01.2016 and Rs. 7,01,91,000/- towards Site Specific Wildlife Conservation Plan.  An undertaking is annexed as ANNEXURE-IB to contribute proportionately towards Elephant depredation scheme as required and to be prepared by the State Forest Deptt.
14	An undertaking from the User Agency shall also be obtained to the effect that the required fund or proportionate contribution of Biodiversity Conservation Plan of the district / zone shall be provided by the project authority to the forest department as per the requirement and as may be asked by the forest department.	An undertaking is annexed as ANNEXURE-IB to the effect that the required fund or proportionate contribution of Bio-diversity conservation plan of the District/Zone shall be provided by the project authority to the Forest Deptt. as per the requirement and as may be asked by the Forest Deptt.



15	The User agency shall submit a land use map every year using the latest satellite imagery of highest resolution within a buffer of 5 KM around the project site, prepared from ORSAC. The first reference land use map from ORSAC shall be furnished by the user agency to this office within 6 (six) months or before carrying out any mining operation whichever is earlier.	Satellite Imagery Map of 2020 prepared by ORSAC is annexed as ANNEXURE-IC.
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Divisional Forest Officer,  
Keonjhar Division.  
27/2



ANNEXURE -I.

Annexure-II

## UNDERTAKING

We undertake that the legal status of the diverted forest land shall remain unchanged.

FOR AND ON BEHALF OF  
TATA STEEL LIMITED  
BY THEIR CONSTITUTED ATTORNEY

  
ATUL KUMAR BHATNAGAR

LESSEE

### **TATA STEEL LIMITED**

Mines Division Joda Keonjhar Odisha 758 034 India  
Tel 91 7440037036

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001  
Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website [www.tatasteel.com](http://www.tatasteel.com)



**Afforestation Measures:-**



**Annexure- IA**

**Dump Management**



**Dump Management**













*Handwritten signature in blue ink.*

Designation: Chief (Mine Planning & Projects), OMQ

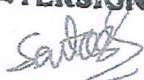
**ANNEXURE - IB**

**UNDERTAKINGS**

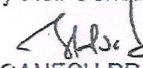
We hereby undertake:

- 1) To reclaim the dumps and mined out pits by afforestation after closure of the mine.
- 2) That no damage to the flora and fauna of the area shall be caused.
- 3) That no labour camps are existing in forest land.
- 4) That the forest land is used as per the land use pattern as specified in the approved Forest Diversion Proposal.
- 5) To contribute proportionately towards elephant depredation scheme as required and to be prepared by the State Forest Department to the GoI, MoEF.
- 6) That the required fund or proportionate contribution of Biodiversity Conservation Plan of the district / zone shall be provided by the project authority to the forest department as per the requirement and as may be asked by the forest department.

**COUNTERSIGNED**

  
**Divisional Forest Officer,  
Keonjhar Division**

**TATA STEEL LTD.**  
By their Constituted Attorney

  
**(GANESH PRASAD SAHU)**  
Head (Ferro Alloys Production)  
Ferro Alloys & Minerals **LESSEE**



**LANDUSE / LANDCOVER MAP AROUND 5 KM BUFFER AREA OF JODA EAST IRON & MANMORA MANGANESE MINES OF TATA STEEL LIMITED**

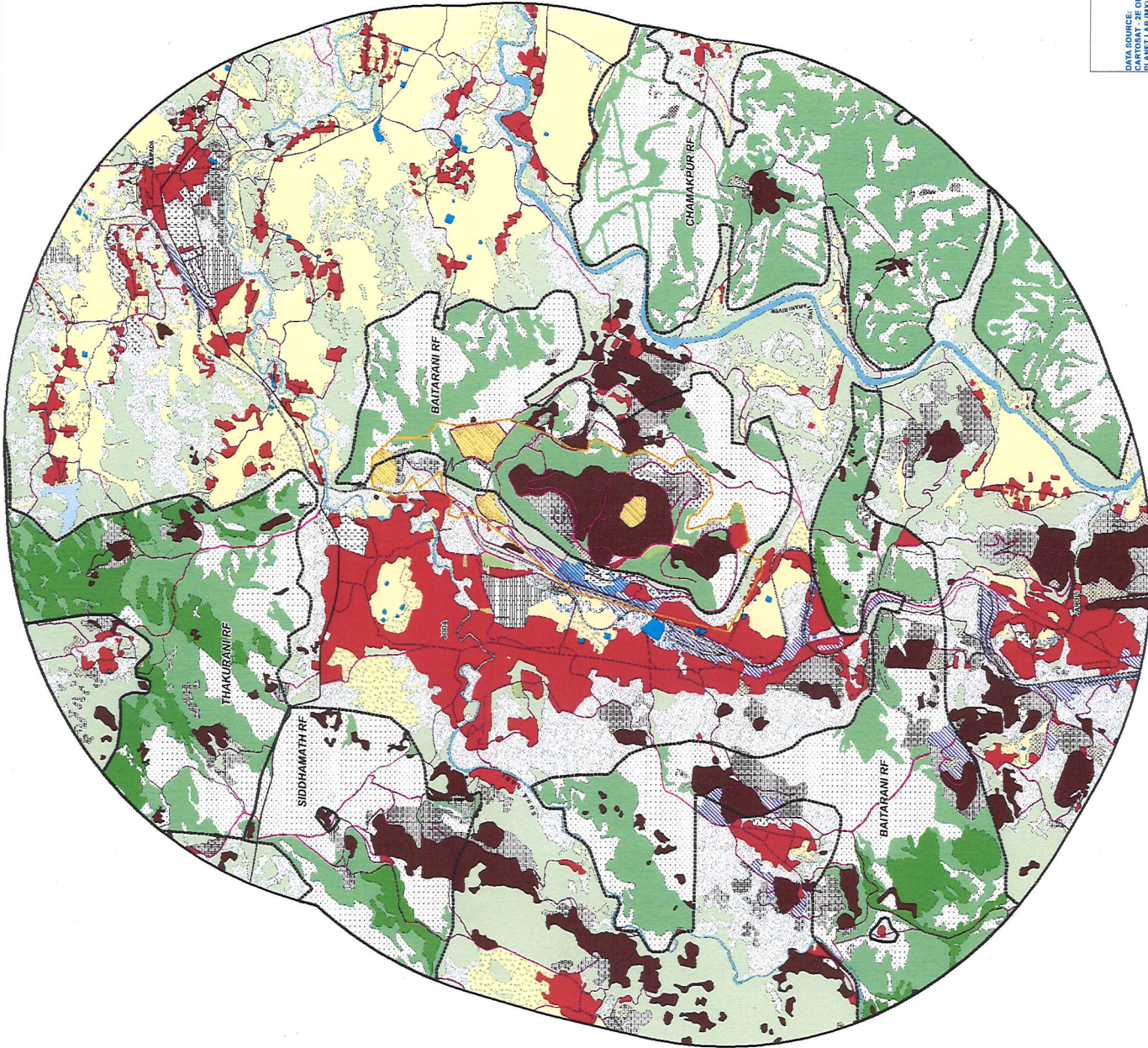
YEAR - 2020



ANNEXURE - 1 c

0 0.75 1.5 3 4.5 6 kilometers

(SCALE: 1:20,000)



**LEGEND**

- HABITATION
- AGRICULTURAL LAND
- DENSE FOREST
- OPEN FOREST
- DEGRADED FOREST
- FOREST PLANTATION
- TREELAD AREA
- LAND WITH SCRUB
- LAND WITHOUT SCRUB
- WATER LOGGING / MARSHY / SWAMPY LAND
- SHIFTING / TERRACE CULTIVATION
- BARREN ROCKY / STONEY WASTE
- MINING QUARRY AREA
- MINING DUMP
- CRUSHER UNIT
- CONVEYOR BELT
- TRUCK / BUS TERMINAL
- PARK / GARDEN / ZOO
- STOCK YARD / GODOWN
- TAILING POND / SETTLING POND
- TANK / POND
- RIVER / STREAM
- RESERVOIR / CHECKDAM / W.H.S.
- CANAL
- NATIONAL HIGHWAY
- OTHER ROAD
- BRIDGE / CULVERT
- RAILWAY LINE
- INDUSTRY
- MAGAZINE
- SAFETY ZONE
- MINES BOUNDARY
- FOREST BOUNDARY