

**OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION**  
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**Memo No. 5992 /Mining**  
**Dated, Keonjhar, the 03/12 Aug, 2016**

To

The Regional Chief Conservator of Forests,  
Rourkela Circle, Rourkela

Sub:

**Proposal for diversion of 124.313 ha Non-Forest Land recorded as Forest as on/after 25th October 1980 excluding 14.748 ha forest land located in the Safety Zone, located in the Mining Lease hold area over 1586.36 ha of Bolani Ores Mines (6.90 sq miles ML) of M/s SAIL, under the jurisdiction of Keonjhar Forest Division in village Balagoda, Bolani and Limtur etc. under Barbil Tahasil of Keonjhar District, Odisha.**

Ref:

Proposal No FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016 dated 22.06.2016.

The proposal for diversion of 124.313 ha Non-Forest Land recorded as Forest as on/after 25th October 1980 excluding 14.748 ha forest land located in the Safety Zone, located in the Mining Lease hold area over 1586.36 ha of Bolani Ores Mines(6.90 Sq Miles ML) of M/s SAIL, has been received through online from the Addl. Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act. O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar vide Proposal No. FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016. on dated 22.06.2016. The said proposal, submitted over 124.313 ha Non-Forest land recorded as Forest as on 25.10.1980 excluding 14.748 ha forest land located in the Safety Zone, in 5 sets, is sent herewith for approval under section - 2(ii) of FC Act 1980 after due scrutinization 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.

**A. Brief description of the Project Proposal**

**A1 - Brief description of the Project**

Bolani Ores Mines, under Raw Materials Division of M/s Steel Authority of India Limited (SAIL), is situated in villages Balagoda, Bolani and Limtur under Barbil, Tahasil of Keonjhar district under the jurisdiction of Barbil Forest Range of Keonjhar Forest Division . The original Mining Lease, granted over 1786.74 ha (6.90 Sq. Miles) for Manganese Ore in favour of M/s Bolani Ores Limited, has been executed on dated 14.11.1962 for a period of 20 years with validity from 14.11.1962 to 13.11.1982. The copy of the executed lease deed is enclosed as **Annexure 1** . The said mining lease, subsequently, has been transferred in favour of M/s Steel Authority of India Limited in the year 1978. Nonetheless, supplementary Lease deed has been executed for inclusion of Iron Ore in the said Mining Lease. The copy of the supplementary lease deed executed for inclusion of Iron Ore in the granted Mining Lease is enclosed as **Annexure 1A** . 1<sup>st</sup> RML application has been submitted, on dated 12.11.1981, one year prior to the expiry of the validity of the original Mining Lease and the 1<sup>st</sup> RML has been granted over 1786.74 ha vide Proceedings No. 6040/SM dated 29.05.1984 of Steel & Mines Department, Govt. of Odisha for the period 14.11.1982 to 13.11.2002. The copy of said proceeding is enclosed as **Annexure 1B** . 2<sup>nd</sup> RML application has been submitted on reduced area over 1586.36 ha, on dated 26.03.2002, within one year of the expiry of the validity of the 1<sup>st</sup> RML and the 2<sup>nd</sup> RML is not yet granted and executed.

Bolani Ores Mines (6.90 Sq. Miles) of M/s SAIL is located within the latitude 22<sup>o</sup>5'12"N to 22<sup>o</sup>7'42"N and longitude 85<sup>o</sup> 19'04" E to 85<sup>o</sup> 23'08"E of Survey of India Topo sheet No. 73 F/8. The mining lease, granted during 1<sup>st</sup> RML over 1786.74 ha, involves 706.52 ha forest land

(Karo RF - 339.21 ha, Uliburu RF- 174.44 ha and Revenue Forest- 192.87 ha) and 1080.220 ha Non-Forest Land. The 2<sup>nd</sup> RML application, submitted on reduced area over 1586.36 ha, involves 506.140 ha forest land (Karo RF – 339.210 ha and Revenue Forest- 166.930 ha) and 1080.220 ha Non-Forest Land.

Pursuant to letter No. 8-230/FCE dated 07.10.2014 of Govt. of India, MoEF&CC, ERO, Bhubaneswar read with letter No. 22350/F&E dated 05.12.2014 of F&E Department, Govt. of Odisha, DGPS Survey has been carried out in respect of Bolani Ore Mines (6.90 Sq. Miles) of M/s SAIL over mining lease area of 1586.36 ha, submitted for grant during 2<sup>nd</sup> RML, in the year 2015. The scheduled area of the Revenue Forest plots, involved in the mining lease, has been arrived, following DGPS Survey of the Mining Lease, at 146.009 ha as per RoR against the scheduled area over 166.93 ha mentioned in the 2<sup>nd</sup> RML application submitted for grant under MMDR Act, 1957. The major discrepancy in Revenue Forest is due to presence of some plots within the lease but not reflected in the land schedule over 71.707 ha and also due to absence of some plots within the lease but included in the land schedule over 95.748 ha. The details of inclusion and exclusion of plots in respect of Revenue Forest, involved in the mining lease, is enclosed vide **Annexure 22**. In the aforesaid scenario, the effective area of Revenue Forest, involved in the mining lease and as per RoR of the said plots, is 146.009 ha. The extent of Reserved Forest has been arrived at 340.006 ha as against 339.21 ha mentioned in the 2<sup>nd</sup> RML application submitted for grant under MMDR Act, 1957.

In the above context, it is nevertheless, mentioned that the extent of Non-Forest land, involved in the mining lease over 1080.22 ha as per RoR schedule, submitted for grant during 2<sup>nd</sup> RML, has been arrived at 701.122 ha as per schedule in village Bolani, Balagoda & Limtur following surrender of 399.223 ha in village Matkambada, Kolha-Barapada, Sundara, Santabhal and Serenda. The copy of the letter of surrender of Non –Forest Land is enclosed as **Annexure- 21**. In addition, an area over 238.093 ha Non-Forest land, out of total non-forest land of 701.122 ha as aforementioned and involved in the mining lease, has been certified by the Tahasildar, Barbil to be forest land as on 25.10.1980 as per Govt. record pursuant to 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. The certificate furnished by the Tahasildar, Barbil in this regard is enclosed as **Annexure - 2**.

The Mining Lease in 2<sup>nd</sup> RML, submitted over reduced area of 1586.36 ha for grant under MMDR Act, 1957, thus in effect, involves 339.210 ha Karo RF, 146.009 ha Revenue Forest, 238.093 ha Non-forest land recorded as forest as on 25.10.1980 and 463.029 ha Non-forest land as per schedule of RoR. In the light of above fact, the effective strength of mining lease, stands at 1186.341 ha. The DGPS Surveyed area of Reserved Forest is 340.006 ha and that of Revenue Forest and Non-forest land recorded as forest as on 25.10.1980 is 144.038 ha and 240.973 ha respectively.

In-principle (Stage-I) approval has been accorded under sec- 2 of FC Act, 1980 over 465.62 ha forest land vide letter F.No.8-87/96-FC dated 24.02.1999 of MoEF, GoI based on the schedule of land submitted in the diversion proposal in the then time . In this context, it is mentioned that the extent of area as mentioned in the diversion proposal as regards Reserved Forest, Revenue Forest, Forest land broken prior to 1980 and Non-Forest land involved in the mining lease alongwith forest land located within the safety zone differs substantially with the present schedule of land included in the mining lease as stated herein above. **This discrepancy needs to be addressed at appropriate level before grant of final approval under Section-2 of FC Act, 1980.**

Nevertheless, it is mentioned that the total forest land, as aforementioned, involved in the Mining Lease over 723.312 ha, stands diverted under Sec 2(iii) in pursuance of the general approval accorded under FC Act, 1980 dated 01.04.2015 on realization of NPV over the entire forest land.

The instant diversion proposal has been submitted over 124.313 ha Non-Forest Land recorded as Forest as on 25.10.1980, excluding the forest land located in the safety zone of the applied plots over 14.748 ha, for approval under Section 2(ii) of Forest (Conservation) Act, 1980. The Non-Forest Land recorded as Forest as on 25.10.1980 over 124.313 ha included in the instant diversion proposal includes 109.813 ha broken up land and 14.50 ha virgin/unbroken land. It is mentioned that the forest land located in the safety zone over 14.748 ha, excluded from the instant diversion proposal, includes 3.68 ha broken up land and 11.061 ha virgin land. The broken up Non-forest land recorded as forest as on 25.10.1980 over 109.813 ha is reportedly used for mining activities including Mining Pits, OB Dump, Road, Conveyor, Pipeline, HT Power Line, Slime Pond, Reject Dump, Township, Plant, Office, Workshop and so on.

The Mining Lease contains total mineable reserve of 0.28608 million tonnes of Manganese Ore. The annual production capacity is 15000 tons Manganese Ore. The mineable reserve of Iron Ore is 0.443784 million tonnes. No mining is in operation but the non-forest land recorded as forest as on 25.10.1980, used for ancillary mining activities railway siding and loading plant, tailing and fines disposal facilities, water intake points etc., has generated direct and indirect employment for about 1000 people.

### **A.2. Physiography and Geological formation**

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.

### **A.3. Floristic- Faunal Composition**

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*, *Treema orientalis*, *Embllica 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 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. 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.

Karo Reserved Forest is the dwelling habitat for leopard, bear, barking deer, hyena, porcupine and etc. Frequent visit of wild elephants from the neighbouring state Jharkhand in the past has resulted in delineation of Karo-Karampada Elephant Corridor in Karo Reserved Forest. This falls under elephant habitat zone- 2 as mentioned by ORSAC, Bhubaneswar.

### **Documents and Undertakings as regards Forest Diversion Proposal**

#### **B.1. Maps**

The user agency has furnished the required maps as depicted in the following table-

Sl.No	List of authenticated maps and documents	Scale	Reference
1	Authenticated Land Schedule in respect of applied forest land		
2	S.O.I Toposheet showing forest land required for diversion and adjoining forest land	1:50000	Plate No. I
3	Lease Plan showing total forest and non-forest land	1:3960	Plate No. II
4	Present Land Use plan in respect of applied forest land	1:8000	Plate No. III
5	Proposed Land use Plan in respect of applied forest land	1:8000	Plate No. IV
6	Safety zone area Plan in respect of applied forest land	1:8000	Plate No. V
7	Geological plan in respect of applied forest land	1:8000	Plate No. VI
8	Reclamation & Rehabilitation Plan along with in respect of applied forest land	1:8000	Plate No. VII
9	Compensatory Afforestation Map showing Degraded Forest land along with Treatment Plan.	1:10000	Plate No. VIII(A) & VIII(B)
10	Authenticated DGPS Map	1:6000	Plate No. IX
11	Tree enumeration map	1:8000	Plate No- X
12	Authenticated Land use plan of total lease area showing non forestry activity in each patch of forest land	1:8000	Plate No- XI

#### **B.2 Forest Land.**

Bolani Ores Mines (6.90 Sq Miles ML) of M/s SAIL, applied during 2<sup>nd</sup> RML over 1586.36 ha, with effective strength of 1186.341 ha, involves 339.210 ha Karo RF, 146.009 ha Revenue Forest, 238.093 ha Non-forest land recorded as forest as on 25.10.1980 and 463.029 ha Non-forest

land as per schedule of RoR. The purpose wise break-up of 124.313 ha of Non-Forest Land recorded as Forest as on 25.10.1980, submitted for diversion, is produced hereunder-

**Purpose wise breakup of the 124.313 ha Non-Forest Land recorded as Forest as on 25.10.1980**

**Table – 1**

**Existing land use in respect of 124.313 ha Non-Forest Land recorded as Forest as on 25.10.1980 along with Non-Forest land involved in the project**

Sl. No	Pattern of Utilization	Broken up non-forest land recorded as forest as on 25.10.1980 (in ha)	Broken up non-forest land recorded as forest as on 25.10.1980 located in S.Z (in ha)	Total Broken up non-forest land recorded as forest as on 25.10.1980 (in ha)	Total Broken up non-forest land recorded as non-forest as on 25.10.1980	Grand Total (in ha)
1	Old Mining Areas (Pits & OB Dumps)	14.55	0.36	14.91	3.222	18.132
2	Roads, Conveyors, Pipe lines & HT / Power Line	12.051	0.104	12.155	14.623	26.778
3	Reject Dumps & Slime pond	23.027	0.414	23.441	40.683	64.124
4	Plants, Offices & Workshops	39.39	0.913	40.303	7.528	47.831
5	Township	20.795	1.896	22.691	72.805	95.496
	<b>Total Area in Ha.</b>	<b>109.813</b>	<b>3.687</b>	<b>113.5</b>	<b>138.861</b>	<b>252.361</b>

**Table -2**

**Proposed Land use of virgin non-forest land recorded as forest as on 25.10.1980 along with Non-Forest land involved in the project**

Sl. No.	Pattern of Utilization	Virgin non-forest land recorded as forest as on 25.10.1980 (in ha)	Virgin non-forest land recorded as forest as on 25.10.1980 located in the Safety Zone (in ha)	Total virgin non-forest land recorded as forest as on 25.10.1980 (in ha)	Virgin Non-forest land recorded as non-forest as on 25.10.1980 (in ha)	Virgin Non-forest land recorded as non-forest as on 25.10.1980 located in the Safety Zone (in ha)	Grand Total (in ha)
1	Old Mining Area (Pits & OB Dumps)	0	-	0	0	-	0
2	Roads, Conveyors, Pipe line & HT/ Power Line	1.4	-	1.4	3.55	-	4.95
3	Reject Dumps & Slime pond	0	-	0	0	-	0
4	Plants, Offices & Workshops	13.1	-	13.1	0.5	-	13.6
5	Township	0	-	0	0	-	0
	<b>Total Area in Ha.</b>	<b>14.5</b>	<b>-</b>	<b>14.5</b>	<b>4.05</b>	<b>-</b>	<b>18.55</b>

**Table- 3**

**Abstract of Existing and Proposed Land use of non-forest land recorded as forest as on/ after 25.10.1980 along with Non-Forest land involved in the project**

Sl. No	Pattern of Utilization	Broken up non-forest land recorded as forest as on 25.10.1980 (in ha)	Virgin non-forest land recorded as forest as on 25.10.1980 (in ha)	Total non-forest land recorded as forest as on 25.10.1980 (in ha)	Broken Non-forest land recorded as non-forest as on 25.10.1980 (in ha)	Virgin Non-forest land recorded as non-forest as on 25.10.1980 (in ha)	Total Non-forest land recorded as non-forest as on 25.10.1980 (in ha)	Grand Total (in ha)
1	Old Mining Area (Pits & OB Dumps)	14.55	0	14.55	3.202	0	3.202	17.752
2	Roads, Conveyors, Pipe line & HT/ Power Line	12.051	1.4	13.451	14.623	3.55	18.173	31.624
3	Reject Dumps & Slime pond	23.027	0	23.027	40.683	0	40.683	63.71
4	Plants, Offices & Workshops	39.39	13.1	52.49	7.478	0.5	7.978	60.468
5	Township	20.795	0	20.795	71.978	0	71.978	92.773
	<b>Total</b>	<b>109.813</b>	<b>14.5</b>	<b>124.313</b>	<b>137.964</b>	<b>4.05</b>	<b>142.014</b>	<b>266.327</b>
	Safety Zone	3.687	11.061	14.748	0.897	21.7	22.597	37.345

**B.3. Tree Enumeration.**

There are 1164 Nos. of sound trees, 195 Nos. of unsound trees and 1080 nos. of poles below 30 cm girth enumerated inside the proposed diversion area of 124.313 ha. Species wise and diameter class wise abstract of trees enumerated in respect of applied forest land (virgin/unbroken + broken) is enclosed as **Annexure- 3**.

**B.4 Cost benefit analysis.**

The Cost Benefit analysis has been worked out as per the guidelines of Forest (Conservation) Act, 1980 and enclosed in the proposal as **Annexure- 4**. The Cost Benefit ratio is 1:11.09.

**B.5 Re-settlement and Rehabilitation.**

The project does not involve displacement of any human habitation.

**B.6. Safety Zone**

Bolani Ores Mines (6.90 Sq Miles ML) of M/s SAIL, applied during 2<sup>nd</sup> RML over 1586.36 ha, with effective strength of 1186.341 ha, involves 339.210 ha Karo RF, 146.009 ha Revenue Forest, 238.093 ha 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. The submitted proposal over 124.313 ha Non-forest land recorded as forest as on 25.10.1980 involves 14.748 ha forest land located in the safety zone and that of the Non-Forest land, involved in the applied plots and located in the safety zone is 22.597 ha. The

details of forest and Non-Forest land located in the safety zone of the applied plots involved in the mining lease is furnished hereunder-

**DETAILS OF SAFETY ZONE AREA**

SL. No	ITEM	Non-Forest recorded as forest as on 25.10.1980 (In Ha.)	Non-Forest Area (In Ha.)	Grand Total (In Ha.)
1	7.5 mtrs width all along the Mining lease Boundary	2.338	3.067	<b>5.405</b>
2	50 mtr width along the left bank of Karo River within the lease	11.2	16.67	<b>27.87</b>
3	30 mtr width along both sides of Limtur nallah within the lease	1.21	2.86	<b>4.07</b>
<b>TOTAL</b>		<b>14.748</b>	<b>22.597</b>	<b>37.345</b>

Nonetheless, it is mentioned that the proposed diversion proposal submitted over 139.061 ha non forest land recorded as forest as on 25.10.1980 includes 3.687 ha broken up land located in the safety zone.

**B.7. Concurrent Reclamation Plan.**

Bolani Ore Mines (6.90 Sq. Miles) is a non-working mines. Ancillary mining activities as depicted in the land use plan is restricted to the non-forest land recorded as forest as on 25.10.1980 in pursuance of recommendation of the CEC in IA No. 2746-2748 of 2009 communicated dated 07.07.2011. In this backdrop, the User Agency has undertaken vide **Annexure 5** to abide the condition to be stipulated as regards reclamation of broken up areas in respect of submitted diversion proposal.

**B.8. Lease Profile**

The User Agency has furnished the lease profile vide **Annexure-6** in the Diversion Proposal.

**B.9. District Profile**

The district profile in the prescribed proforma vide Annexure- VII of FC Act guideline is annexed herewith as **Annexure - 7**

**B.10. Compliance of the conditions stipulated in the Earlier Approvals (Stage-I and Stage-II) under FC Act,1980-**

In-principle (Stage-I) approval has been accorded under sec- 2 of FC Act, 1980 over 465.62 ha forest land vide letter F.No.8-87/96-FC dated 24.02.1999 of MoEF, GoI. This forest land includes 160.73 ha forest land broken prior to 1980 and 304.89 ha virgin forest land. Compliance of the aforesaid approval accorded under FC Act, 1980 is not yet submitted.

**B.11. Compliance to Statute(s), circular & directives issued by Govt. of India, MoEF as applicable to the project which came in to force after grant of earlier approval.**

The desired compliance is enclosed as Annexure - 8.

**B.12. Certificate under FRA, 2006**

The User Agency has applied for issue of certificate under Forest Right Act, 2006 in respect of the submitted diversion proposal over 238.093 ha Non-Forest land recorded as Forest as on 25.10.1980, inclusive of the area submitted for approval over 124.313 ha, vide their letter No-236(B), dt. 23.06.2016 addressed to the Collector, Keonjhar. The copy of the letter is enclosed herewith as Annexure 15. The Collector, Keonjhar will furnish the said certificate along with his findings on settlement of rights under FRA and consent of the Gramsabha in respect of the aforesaid proposal to the Regional Chief Conservator of Forests as enshrined in the FC Amendment Rule, 2014.

**B.13. Site Inspection Report of DCF**

Site Inspection report of the Deputy Conservator of Forests, Keonjhar Division is furnished as Annexure-

**B.14. DGPS maps**

DGPS map has been prepared by the empanelled consultant M/s Natural Resource Management and Techno Consultancy Services Limited and vetted by ORSAC, Bhubaneswar. The said map broadly depicts different category of forest land involved in the mining lease with plot wise statement of area in respect of Revenue Forest and Non-Forest land recorded as Forest as on 25.10.1980. The DGPS coordinates of different patches of Forest land (Reserved Forest, Revenue Forest and Non-Forest land recorded as Forest as on 25.10.1980) has been depicted in the prepared map.

The DGPS map signed by all concerned officials of Revenue, Mining and Forest Dept., validated by ORSAC and duly countersigned by the undersigned based on the prevailing Field Position is enclosed as Plate - IX. The area of Forest land as per land schedule and that of DGPS map involved in the Mining Lease is produced below-

Sl No.	Category of Forest Land	Area as per land schedule (in ha)	Area as per DGPS Map (in ha)	Difference	Remarks
1	Reserved Forest	339.210	340.006	0.796	0.235%↑
2	Revenue Forest	166.930	144.038	22.892	13.714%↓
3	Non-Forest land recorded as Forest as on 25.10.1980	238.093	240.973	2.88	1.21%↑
	<b>Total</b>	<b>744.233</b>	<b>725.017</b>	<b>19.216</b>	<b>2.582%↓</b>

**N.B:-** Revenue Forest, as per authenticated abstract of land schedule, is 166.93 ha whereas the actual sum of area of Revenue Forest plots, reflected in the village wise land schedule, is 170.05 ha. Revenue Forest plots included in the DGPS surveyed mining lease, as per scheduled RoR, is 146.009 ha. The differential Revenue Forest area over 24.041 ha is due to inclusion and exclusion of some plots i.e. plots, not reflected in the land schedule, has been included in the mining lease and plots, reflected in the land schedule, fall outside the Mining Lease boundary. The details of aforementioned Revenue Forest plots is enclosed vide Annexure- 22.

In addition, it is also mentioned that the applied Non-Forest land recorded as Forest as on 25.10.1980 over 124.313 ha has not been delineated in the DGPS map, instead, the total Non-Forest land recorded as Forest as on 25.10.1980 over 238.093 ha has been delineated in the DGPS map and the land scheduled area has been mentioned to be 238.103 ha. The above discrepancy is attributable to plot wise conversion of "Acre" into "Hectare". The applied area over 124.313 ha has been delineated in the proposed land use plan with DGPS coordinates reflected therein.

**C. Compensatory Levies**

**C.1. Compensatory Afforestation**

I. Total Mining Lease area	-	1586.36 ha
Effective Strength of Mining Lease	-	1186.341 ha
Forest area involved in the ML	-	723.312 ha
Forest land diverted under F C Act 1980	-	Nil
Non-Forest land recorded as Forest as on 25.10.1980 submitted for diversion under section-2(ii) of F C Act 1980	-	124.313 ha
Forest land located in the safety zone of the plots involved in the instant proposal	-	14.748 ha
Land Required for Compensatory Afforestation (degraded forest land twice the extent of area applied for diversion)	-	248.626 Ha

Degraded Forest land, double the extent the forest land submitted for diversion over 124.313 ha under Sec-2(ii) of FC Act, 1980 (i.e 124.313 ha x 2 = 248.626 Ha) have been identified and allotted in 3 patches in Laxmiposi RF under Champua Forest Range of Keonjhar Forest Division . Compensatory Afforestation scheme in respect of the aforementioned degraded-forest land is enclosed herewith as **Annexure - 1 O**

**C2. Net Present Value.**

Bolani Ores Mines (6.90 Sq Miles ML) of M/s SAIL, applied during 2<sup>nd</sup> RML over 1586.36 ha, with effective strength of 1186.341 ha, involves 339.210 ha Karo RF, 146.009 ha Revenue Forest, 238.093 ha Non-forest land recorded as forest as on 25.10.1980. The total forest land involved in the mining lease is 723.312 ha. NPV has been deposited in respect of entire forest land included in the mining lease as depicted hereunder -

Sl No.	Forest Area in ha	Eco Value Class	Canopy Density	The then Applicable Rate (in Rs.)	NPV Deposited (in Rs.)	Details of deposits
1	506.14 Hects ( 339.21 Ha RF and 166.93 Ha Revenue Forest)	I	0.1	7,30,000/-	36,94,82,200/-	Cheque No. 597662 dt.29.05.2010 and Cheque No. 597673 dt.03.07.2010 in favour of CAMPA A/c 1585
2	238.093 ha (Non-Forest land recorded as Forest as on 25.10.1980)	I	0.3	7,30,000/-	17,38,07,890/-	RTGS UTR No SBINR52016071332114863 dt.13.07.2016 in CAF A/c No 344902010105428 of Union Bank of India SunderNagar, New Delhi

The aforesaid amount realised towards NPV has been deposited in Ad-hoc CAMPA.

**C3. Wild Life Management- Site Specific Wildlife Conservation Plan and Regional Wildlife Management Plan.**

Site Specific Wildlife Conservation Plan is not prepared in respect of Bolani Ore Mines (6.90 Sq. Miles) of M/s SAIL. The User Agency has undertaken to prepare Site Specific Wildlife Conservation Plan as per the guideline in compliance with the condition to be stipulated under FC Act, 1980 in respect of the submitted diversion proposal. The said undertaking is enclosed herewith as **Annexure- 17**. In addition, it is mentioned that M/s SAIL has deposited Rs 6,82,13,480/- towards the cost of implementation of Regional Wildlife Management Plan at the prevailing rate of Rs. 43,000/- ha.

**D. Statutory Clearances**

**D.1. Forest Clearance**

In principle approval under Section 2(ii) of Forest (Conservation) Act, 1980 has been accorded over 465.62 ha forest land vide F. No. 8-87/96-FC dtd. 24.02.1999 of MoEF, Govt. of India.

**D.2. Mining Plan/ Mining Scheme**

The Mining Plan along with Progressive Mine Closure Plan has been approved by IBM vide No. MP/OTF.MECH/08-ORI/BHU/201-11 dated 06.08.2010 with validity up to 31.03.2030. The copy of the approved Plan is enclosed as **Annexure- 12**.

**D.3. Environmental Clearance**

The User Agency has obtained Environmental Clearance for production of 15,000 Tonnes /annum of Manganese ore vide letter No. J-11015/396 /2008-IA.II (M) dt. 21.12.2012 of MoEF, Govt. of India. The copy of the approved Environmental Clearance is enclosed as **Annexure- 13**

**D.4. Consent to Operate from SPCB, Odisha**

The State Pollution Control Board, Odisha has issued Consent to Establish vide order no 23403-Ind-II-NOC-5374 dt 21.12.2013 which is enclosed as **Annexure - 14**. Consent to Operate will be obtained before commencement of Mining Operation. The undertaking submitted to this effect by M/s SAIL is enclosed as **Annexure - 18**.

**E. Miscellaneous Information**

**E.1. Violation committed in the mining lease and Action Taken thereof.**

No action in violation of FC Act, 1980 is committed in respect of the applied Non-Forest land recorded as Forest as on 25.10.1980. In addition, it is mentioned that Non-Forest land recorded as Forest as on 25.10.1980, as depicted in the existing land use plan, has been used/ broken as Non-Forest land.

**E.2. Pending Court Matters.**

M/s SAIL has furnished an undertaking as regards pending court matter in respect of Bolani Ore Mines (6.90 Sq. Miles) which is enclosed vide **Annexure - 16** for kind perusal.

**E.3. Compliance of the order dated 01.09.2014 of the Hon'ble Supreme Court in I.A No. 204 and 219, 223 in I.A. No. 204 and I.A No. 224 in I.A. No. 215 in W.P.(C) 562/2009 read with I.A No. 212 in W. P (C) 562/2009.- Timeline details.**

Proposal for diversion of 124.313 ha of Non-Forest land recorded as Forest as on 25.10.1980 within the Mining Lease of 1586.36 ha of Bolani Ore Mines of M/s SAIL (6.90 Sq. Miles) has been received through online from the Addl. Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act. O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar vide No. FP/OR/MIN/20126/2016, St. Sl. No.OR-051/2016 dated 22.06.2016. Essential Details in connection with the said proposal was sought for from the User Agency on dated 27.06.2016. In compliance with the Essential Details Sought for, the compliance submitted by the User Agency has been received on dated 01.08.2016. The aforesaid proposal is forwarded to the RCCF, Rourkela Circle through Online portal dated 03.08.2016 within the time period fixed at the level of the Divisional Forest Officer at the expense of 07 days spent towards examination of factual details and feasibility of the proposal, map certification, site inspection and tree enumeration.

**Enclosure- Diversion proposal along with requisite documents.**

  
Divisional Forest Officer,  
Keonjhar Division.

Memo No. 5993 /Dated 03-08-2016

Copy forwarded to the Additional Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information.

  
Divisional Forest Officer,  
Keonjhar Division.