

FORM-‘A’

Form For seeking prior approval under section 2 of the proposal by the state Government and other authorities.

PART- I

1. Project details:

i) **Short narrative of the proposal and project/scheme for which the forest land is required.**

Government of Odisha issued the Letter of Intent (LoI) vide letter No – IV (MISC) SM-06/2017848/SM, Bhubaneswar dated 27.01.2017 under Rule 18(1) of Mineral Auction Rules 2015 for grant of Composite License (CL) in favor of M/s Thriveni Earthmovers Pvt. Ltd (TEMPL). After complying with the stipulated conditions of LoI, Govt. of Odisha declared M/s Thriveni Earth Movers Pvt. Ltd as the Successful Bidder and Granted the Composite License over 256.304 ha for Manganese vide No.IV (B)SM-100/2007-433/SM, dated 19.01.2019 and the prospecting license deed was executed on 24.01.2019 for 2 years. During the prospecting new minerals (i.e. iron ore) was discovered and it was intimated to Govt. under Rule 11(2) of Minerals (Other than Atomic and Hydro Carbons energy Minerals) Concession Rules, 2016. On due completion of exploration, Mining Lease application over 131.889 ha was submitted and Government of Odisha has awarded the Letter of Intent for grant of mining lease vide No. 7731-IV(B)SM-100/2017/SM dated 21.09.2021 in favour of M/s Thriveni Earthmovers Pvt. Ltd. for Manganese & Iron ore over an area of 131.889 ha situated in Dhanrjayapur-40, Kanrda - 38 & Laserda village under Barbil Tehsil of Keonjhar District, Odisha, copy of the same is enclosed as **Annexure – I**. Subsequently after conduct of DGPS survey by ORSAC, the area now comes to 131.800 ha which has been intimated by Director of Mines vide no. MXIII (b) 80/2015/8031/DM/dated 22.10.2021, Copy of the same is enclosed as **Annexure – I(A)**.

The total area over 131.800 hectare consists of 53.467 ha of Revenue Forest and 40.884 ha of non-forest land recorded as forest as on 25.10.1980 and 37.449 ha of Non-Forest land, copy of Land Schedule authenticated by



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concerned authority with Certificate of Tahasildar in regards to status as on 25.10.1980 of Laserda-Pacheri Manganese & Iron ore block over an area of 131.800 ha authenticated by the Tehsildar, Barbil is enclosed as **Annexure – II and II(A)**.

In the Letter of Intent Govt. of Odisha has advised to M/s Thriveni Earthmovers Pvt. Ltd to obtain all consents, approvals, permits, no-objections and like as may be required under applicable laws for commencement of mining operation.

Therefore, the instant proposal is being submitted for diversion of forest land over 94.351 ha (Revenue Forest – 53.467 ha and 40.884 ha of non-forest land recorded as forest as on 25.10.1980) entire forest land within the granted mining lease area under Section 2(ii) of FC Act, 1980 for diversion, under the same proposal for a period of 50 years as would be coterminous with the lease period under Section 8(A) 2 of MMDR Amendment Act, 2015.

The said area is a fresh allotted area; hence the application of Forest Diversion Proposal is being applied in **Form A** under section 2 (ii) of Forest Conservation Act, 1980.

In addition to above an area of 35.596 ha of non-forest land will also be utilized for mining and ancillary activities related to mining like Admin office, screening and crusher plant, beneficiation plant etc excluding the safety zone over 1.853 ha.

The Mining Plan has been approved for Manganese & Iron ore vide letter No.MP/A/14-ORI/BHU/2021-22, dt 18.11.2021. A copy of approved Mining Plan is enclosed as **Annexure –III & III(A)**. The estimated geological reserve of Iron ore is calculated 6.22 Million tons and 6.47 Million tons of Manganese ore as per present available borehole data, which is likely to increase after detailed exploration is undertaken on execution of mining lease. Considering the 0.2 million ton RoM production of manganese and



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1.545 million ton production of Iron ore per annum the life of the mines 32 years from the of execution of mines. As per the Rule 12 (3) of MCDR,2017 the holder of mining lease shall carry out detail exploration (G-1level) over entire lease area within a period of 5 years from date of opening of the mine.

The lease area has been earmarked in Toposheet No. F45H8 (73 F/8) shown in **Plate No. -I**. The allotted ML area is bounded by latitude 22°04'11.44231" to 22°03'25.92856"N and longitude 85°19'15.99748" to 85°17'53.81761"E. The allotted boundary DGPS co-ordinates are shown in authenticated Lease Map in **Plate No. – II(A)**. The area is near to Bolani Iron ore mines of SAIL, which is situated Northern side of the area.

The adjoining forest area and adjoining mining leases of this mine has also been shown in Topo sheet enclosed as **Plate No. – I**. The forest area involved in this lease does not include any National Park, Sanctuary or Biosphere reserve, Tiger reserve or Elephant reserve. No monument intended to be preserved from archeological point of view lies in the lease area.

About 335 no of persons with different skill sets are likely to be employed in this mine. In addition there will be large number of local people, who will get indirect employment in ancillary services including transportation of product.

ii) **MAP SHOWING THE REQUIRED FOREST LAND, BOUNDARY OF ADJOINING FOREST ON A 1:50,000 SCALE MAP,**

The following maps have been submitted.

Sl. No	Particulars	Scale	Reference
01	Location Map of Projected Area and adjoining leases shown in Topo Sheet	1: 50,000	Plate-I
02	Lease Map Showing Forest & Non-Forest	1: 4000	Plate – II
03	DGPS Map showing Allotted Mining Lease Block	16"=1Mile / 1:3960	Plate – II(A)
04	DGPS Map showing Forest land vetted by ORSAC	1:3960	Plate – II(B)
05	Existing Land use Map	1: 4000	Plate-III
06	Approved Geological Plan	1:2000	Plate - IV
07	Safety Zone Map	1: 4000	Plate-V



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08	Proposed Land use Map	1: 4000	Plate-VI
09	Phase Reclamation Plan	1: 4000	Plate-VII
10	Map Showing Non-Forest Land identified/Allotted for Compensatory Afforestation	1:3960	Plate-VIII
11	Topo-sheet indicating Non-Forest identified for Compensatory Afforestation	1:50000	Plate-IX
12	Map Showing Additional Land in Degraded Forest Land	1 : 4000	Plate-X

iii) **COST OF THE PROJECT**

iv) The estimated cost of the project is Rs. 96.00 Crore, which includes all statutory payments. Broad areas of Capex are,

A.	Cost of Infrastructure	:	8.00 crore
	Cost of Plant & Machineries	:	10.00 crore
	Cost on Establishment	:	5.00 crore
	Pre Operation Cost	:	44.50 crore
	Closure Cost	:	15.50 crore
	Total	:	Rs 83.00 Crore

B .	Statutory payments to be <u>made to the Forest Dept.</u>		
	Cost of NPV (Approx)	:	Rs. 8,87,00,000.00
	Cost on Comp. affn. Over 91.00 ha @ 236000/- per ha.	:	Rs. 1,82,00,000.00
	Cost of Maintenance of Safety Zone over 4.261 @ 40000/- per ha	:	Rs 1,70,440.00
	Cost on affn. over 1.5 times safety zone i.e. 6.392 ha in degraded forest land @ 40000/- per ha	:	Rs. 2,55,660.00
	Cost of Bio-diversity study	:	Rs 15,00,000.00

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Cost on Regional Wildlife Management	:	Rs 60,62,800.00
Cost of Site specific wildlife conservation plan	:	Rs. 1,50,00,000.00
Total	:	Rs. 12,98,88,900.00 say 13.00 Crore
G. Total		96.00 Crore

iv. Justification for locating the project in Forest area.

Out of total area over 131.800 ha 72% of land is coming under forest land and 100% of Mineralized area both Iron and Manganese is coming under forest area, the final prospecting report was certified by the Director of Geology, Bhubaneswar. Considering the demand of the minerals by the growing Industries and also our captive use for Steel Industries, the exploitation of such mineral from the area is very essential to cater own industry. Since the occurrence of the above mineral is site specific, which happens to fall in forest land, the area is required for diversion to win these mineral.

The Mining Plan of the said area has been approved by Regional Controller of Mines, Indian Bureau of Mines, Bhubaneswar where the cutoff grade of Manganese is considered +10% Mn. and for Iron ore it is +45 Fe.

Hence to carry out the mining and ancillary activities in forest land proposal is being given for diversion. However, the mining and ancillary activities have been proposed in a conservative way to meet the minimum requirement only which is to be located in forest land as no alternative is there and at the end of the mining, the entire utilized area will be reclaimed & rehabilitated with plantation as per Mine Closure Plan & Reclamation Plan. The said area was granted through Auction, therefore, the exploitation of such mineral from the area would definitely enhance the financial resources of the State as well as Centre in shape of revenue sharing, royalty and other taxes etc. Moreover, the project is site specific as mineral deposits do occur in the appropriate site.

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The reason of item wise requirements of forest land is as mentioned below.

Mining: To cater the requirement of the mineral based industries, mining is the only way for extraction of ore from the mineral deposit. As, the deposit of mineral is site specific, based on the geological studies of mineral reserve in the area to excavate the ore from the deposit by carrying out a safe and scientific mining operation. As per the present exploration 76.948 ha (Forest 64.406 ha & Non-forest 12.542 ha) of area is being considered for Mining and Mine Road it may change after the detailed exploration.

Exploration: The said area was granted for composite licence, therefore G2 category of exploration has already been carried out during the period of Prospecting. But it is mandatory to carry out G1 category of exploration of the entire area within 5 years of the Mining Lease, therefore exploration is also a part of mining activities. For that no specific area has not been considered, it will be the entire LoI granted area for Mining Lease will come within Mining and ancillaries activities area.

Dumping: The said area is granted for both Manganese and Iron, as per the exploration data, in Manganese the Ore and OB ratio is 1: 4.5 MT/Cum. And for Iron it is comparatively less. Therefore for dumping the waste materials are a very essential requirement for Mining operation, which can also be utilized for back filling of the pits. For conservation of Mineral as possible as waste will be dumped in Non-Mineralised areas. Therefore for dumping of waste 18.672 ha (Forest 11.612 ha & Non-forest 7.06 ha) of area is being considered for dumping, which may change as per the detailed exploration.

Storing of mineral reject: Considering the grade wise and size wise requirement of the consuming industries, the ore raised is to be segregated and stacked separately for sale purpose, for which some land is required which will be stockyard inside the mining pit and crusher and screening plant area from where ore will be dispatched. Considering from the mineral conservation point of view, the Indian Bureau of Mines, Govt. of India is emphasizing the low grade of Iron and Manganese separate stacking will be required, which can be sold out as per the market demand and technology change. Therefore 1.76 ha of land (Forest 1.684 ha, No-forest 0.076 ha) is being considered for stacking of mineral rejects.



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Sizing and Sorting Yard :- Due the occurrence of Manganese is pocket and lentic deposit, it cannot be operated in a fully mechanical way, for that manual sorting and sizing area has to be required, which will be carried out from RoM ore. Therefore 19.742 ha (Forest 8.774 ha & Non-forest 10.968 ha) of area is being considered for Sorting and Sizing of Manganese.

Ore Processing: Looking into the present scenario of market demand of iron ore with the growing industries of the country and for mineral conservation point of view, the Indian Bureau of Mines, Govt. of India have decided to take up the cutoff grade of iron ore mineral is up to 45% Fe which was earlier 58% Fe. For sizing, upgrading as per the market demand adopting the advanced technology like crushing & screening plant, beneficiation plant etc. will also be important in mining operation. The main intention of the mineral processing plant is to improve the chemical and physical properties of the ore to improve low grade materials to high grade, so that the minerals can be recovered more and marketed comfortably. Therefore 2.27 ha (Forest 1.066 ha & Non-forest 1.204 ha) of area is being considered for Ore processing.

Workshop, Weigh Bridge, Camp, Office, Amin. Office etc :- For proper maintenance of machinery used in mining and allied activities workshop is also required and also as per Govt. norm weigh bridge also required within the mining lease area, so that weighment can be done before out the dispatch materials from the lease area. Therefore 1.951 ha (Forest 0.47 ha & Non-forest 1.481 ha) of area is being considered for Workshop, Weigh Bridge, camp, office etc.

(v) Cost benefit analysis

Cost benefit analysis has been furnished in **Annexure – VII**

(vi) Employment likely to be generated

About 335 no of persons with different skill sets are likely to be employed in this mine. In addition there will be large number of local people, who will get indirect employment in ancillary services including transportation of product.

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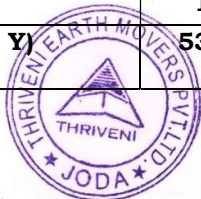
2. Purpose wise breakup of the total land required:-

The total forest lands required for this project is 94.351 ha. including safety zone in forest land over 4.261 ha. The item wise break up of total land including forest and non-forest is furnished below:-

2(i) ITEM WISE BREAK UP OF PROPOSED LAND USE

**Item wise Proposed Break up of Land Use Pattern in Forest and Non-Forest land of
Total Granted LoI for Mining Lease Hold Area (Table – 1)**

Sl. No.	Particulars	Category wise Forest Land in ha		Total Forest in ha	Non-Forest Land in ha	Grant Total in ha
		Revenue Forest	Sabik Forest			
1	Mining along with Mines Road	34.413	29.955	64.368	12.580	76.948
2	Waste Dump with environmental Safeguard like Retaining wall, Garland Drain & Settling Pond	8.05	3.562	11.612	7.06	18.672
3	Fixed Screening & Crushing Plant with premises	1.066	0	1.066	1.204	2.27
4	Sorting & Sizing of Mn ore	6.189	2.585	8.774	10.968	19.742
5	Mineral Stacking Yard	1.021	0.663	1.684	0.076	1.76
6	Office, Site service & Admin. Building, Camp, Work shop	0	0.612	0.612	1.339	1.951
7	Parking area	0.649	0.321	0.97	0.971	1.941
8	Internal Road for Transporting	0.187	0.362	0.549	1.366	1.915
9	Road for In & Out in SZ along the ML boundary	0.004	0.035	0.039	0.007	0.046
10	Road for In & Out in SZ along the PWD road	0.044	0.118	0.162	0	0.162
11	Road for In & Out in SZ along the River	0.001	0.253	0.254	0.025	0.279
X	Sub Total	51.624	38.466	90.090	35.596	125.686
12	Safety Zone along the Lease boundary	1.843	2.015	3.858	1.69	5.548
13	Safety Zone along the PWD Road	0	0.403	0.403	0.163	0.566
Y	Sub Total	1.843	2.418	4.261	1.853	6.114
	Grant Total (X + Y)	53.467	40.884	94.351	37.449	131.800



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Safety Zone Details (Table – 2)

Sl No.	Particulars	VF in ha	SKF in ha	Total Forest in ha	NF in ha	G. Total in ha
1	7.5M. SAFETY ZONE ALONG THE ML BOUNDARY	1.843	2.015	3.858	1.69	5.548
2	50M. SAFETY ZONE ALONG THE ROAD	0	0.403	0.403	0.163	0.566
	TOTAL	1.843	2.418	4.261	1.853	6.114

2(ii). Compensatory Afforestation:

Non-forest land, equal in extent the forest land proposed for diversion over 90.09 ha under Sec 2(ii) under FC Act, 1980, will be met from the identified and allotted non-forest Govt. land over 91.00 ha in village Uperbirkala under BJP range of Banspal Tahasil in favour of Laserda-Pacheri Manganese & Iron block of M/s Thriveni Earthmovers Pvt. Ltd. vide letter No. 2366 dtd. 07.12.2021 of Collector, Keonjhar for raising Compensatory Afforestation. The copy of the allotment letter is enclosed as **Annexure – V**. Copy of Non-encumbrance Certificate of Identified Non-Forest Land for Compensatory Afforestation is attached as **Annexure - VI**.

3. Details of displacement of people due to the project, if any:-

(i) Number of families: - 25

(ii) Number of SC/ST families - 23

(iii) Rehabilitation plan (To be enclosed) - Application for the same has been submitted to the Department of Steel & Mines, Government of Odisha and is further processed at Revenue Department, Collectorate, Keonjhar. Copy of the Joint verification report is enclosed as **Annexure -VIII**.

4. Whether clearance under Environment (protection) Act, 1986 required?

Yes, Term of Reference (ToR) has been applied, presentation for ToR is scheduled on 9.12.2021, copy of the application is attached ad **Annexure-IX**.

5. Undertaking to bear the NPV, cost of raising and maintenance of Compensatory Afforestation and/Penal Compensatory Afforestation as well as cost for protection and regeneration of safety Zone. Wildlife

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management plan (If required) etc. as per the scheme prepared by the state Govt.

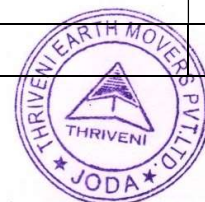
An undertaking has been furnished to bear the NPV, cost of raising and maintenance of Compensatory Afforestation and cost for protection and regeneration of safety Zone. Wildlife Management Plan etc. is enclosed vide **Annexure – X.**

6 Details of Certificates/Documents Enclosed as Required Under the Instructions:

Following Certificates and documents are enclosed for better Comprehension and Clarity.

Sl No.	List of Documents	Annexure
1	Copy of Letter of Intent for Grant of Mining Lease	I & I(A)
2	Authorization letter for signing the Forest Diversion Proposal documents	I(B)
3	Copy of Land Schedule authenticated by concerned authority with Certificate of Tahasildar in regards to status as on 25.10.1980	II & II(A)
4	Copy of Approval of Mining Plan Letter and Mining Plan	III & III(A)
5	Justification for locating the project in Forest Land	IV
6	Copy of allotment letter of Non-Forest land for Compensatory Afforestation	V
7	Copy of Non-encumbrance Certificate of Identified Non-Forest Land for Compensatory Afforestation	VI
8	Parameter for evaluation of benefit not withstanding loss of forests	VII & VII(A)
9	Copy of Application and Joint Verification report for R&R	VIII
10	Copy of ToR application	IX
9	Undertaking to NPV, cost of raising and maintenance of Compensatory Afforestation and cost for protection and regeneration of safety Zone, Wildlife Management Plan etc.	X
10	Copy of a note in Use of Mineral	XI
11	Lease Profile	XII
12	Copy of application to Collector for conducting FRA	XIII
13	Phase Reclamation Plan with schedule	XIV
14	Certificates	XV
15	Prospecting Licence Lease Deed	XVI
16	Stage II Clearance for Exploration in PL	XVII
17	Compensatory Afforestation Scheme	XVIII & XVIII(A)
18	Proforma for Furnishing State & Dist. Profile	XIX
19	Tree Enumeration Abstract	XX
20	Site Inspection Report	XXI

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Thus, the User Agency requests the State Govt. in Forest & Environment Dept. for diversion of forest land over 94.351 ha, including the safety zone along the Mining Lease boundary over 3.858 ha and along the PWD road over 0.403 ha, is also being applied under Section 2(ii) of FC Act, 1980 for diversion, under the same proposal for a period of 50 years under Section 8(A) 2 of MMDR Amendment Act, 2015. in favour of M/s Thriveni Earthmovers Pvt. Ltd.

Date

Place



Signature

(S.Venkateswaran)

Director Operations

State Serial No. of Proposal – **OR-094/2021**

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(To be filled up by the Nodal Officer with date of receipt)