

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.

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



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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 detail 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 have not consider, it will be 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 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 area. 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 stock yard 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 reject.



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Sizing and Sorting Yard :- Due the occurrence of Manganese is pocket and lencatic 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 advance 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 machineries 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.



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