

# **EXECUTIVE SUMMARY**

## **HIWARA MANGANESE MINE**

### **VILLAGE – HIWARA, TALUKA- TUMSAR, DISTRICT - BHANDARA, MAHARASHTRA.**

(Area 12.47 Ha, Khasra No. 21,22,23,24,25,26 & 27 , Govt. Revenue  
Land, Proposed Production 20,000 MTPA)

Project Proponent

**Shri. Prafful Ram Lanjewar**

# Shri. Prafful Ram Lanjewar

## MANGANESE MINE

### Executive Summary

#### 1.0 General

---

- 1.1 The Government of India, Ministry of Environment & Forest has allotted Hiwara Block for captive mining of Manganese to Shri. Prafful Ram Lanjewar, Nagpur. The latter has proposed to establish a Production of Manganese capacity 20,000 MTPA. The Mining lease area is a part of small basin and distantly surrounded by high hillocks. It is gently undulating with low gradient into the adjacent small rain fed tanks. The surface plan with elevation contours shows the elevation to be ranging from a maximum of 317 m.
- 1.2 **Shri. Prafful Ram Lanjewar, Nagpur** the project proponents is a partnership ownership firm having registered office in Nagpur District. The State Government of Maharashtra has identified 12.47 Ha. of the lease to the proponent in village Hiwara, Tehsil Tumsar, District Bhandara, Maharashtra. Mining Plan for the said area has been approved from the competent authority. The proponent envisages developing mining activities based on the available reserves of ore in central India. The proponent is committed to operate systematic and scientific mining operations making optimum utilization of the resources. Needless to mention that the mining activities shall be carried out as per the mandatory laws and regulation prevailing.

#### 2.0 Proposed Mining

- 2.1 The total mining lease area proposed is 12.47 Ha The proposed area is located in the jurisdiction of Village Hiwara, Dist – Bhandara. The lease period is 20 years. This Mining Plan is being prepared as required for renewal of mining lease of the area.
- 2.2 At present in the area mining as well as dumping of overburden, are being carried out in haphazard manner. As the opening of pit as well as dumping are

scattered and it does not give good impression about the environment management. It is proposed to dump the overburden in systematic manner along the boundaries where spaces are earmarked for this purpose. Any unsystematic dumping as well as opening of pits will be avoided, so that mining activity does not violate the aesthetic sense of environment.

### **3.0 Environmental Parameters**

**3.1** The idea of the geological formations can be had from old Pits in the area. These old Pits and exposures of Manganese Ore are shown in Geological Plan.

All these Pits are considered for studying the formations in the area.

The Geological formations met with in the area are-

- 1) Soil/Alluvium Thickness 1 m. (Avg. Thickness)
- 2) Mica Schists with Pegmatites
- 3) Manganese Ore with Gondite Thickness 2 m. (Avg. Thickness)

**3.3 Climate:** Sub-tropical climatic condition prevails in the area. Maximum temperature recorded during summer is 42.1°C, during pre monsoon with the minimum temperature of 7°C in the winter season.

**3.4 Rainfall:** The average annual rainfall of the Bhandara District is 1300 - 1500 mm. The maximum rainfall is observed during South-west monsoon. About 70% of the annual rainfall is received during the monsoon season. Pre-monsoon rains are also observed in the area.

**3.5** The entire study area is covered under one tehsil of Bhandara district in Madhya Pradesh state. Totally 6 villages are covered under the study area with the proposed mine site as the center. In this study, the geographical area of all the 6 settlements covered under 5 km radius circle is taken into consideration though a couple of villages are covered partially in the study area. The proposed area is Private revenue land with plain topography and without vegetation. The proposed area is predominantly covered with alluvial soil and murrum having thickness 0.2m to 0.5m there will be change in the land use pattern after the mining activity carried out in the area. There will be working pit developed due to

excavation in the area. Following will be the land use pattern after 5 years and 20 years as envisaged presently.

- 3.6** The existing method of mining is of manual nature and there will not be any deployment of heavy machinery or heavy blasting which will create dust or air pollution.
- 3.7** The method of mining is of semi - mechanized nature. Drilling is being carried out by compressed air operated jack hammer and blasting is being done. The noise will be generated during drilling and blasting. There will not be any heavy development of machines in the area for mining operation as the mining will be in very small scale. There will not be any appreciable impact for noise pollution.

#### **4.0 Environment Management Plan**

- 4.1** The method of mining is semi-mechanized in nature. The ambient noise is primarily due to wind and during the time of blasting of jack hammers drilled holes. The noise level is within acceptable limit.
- 4.3** It is already mentioned that there will not be much generation of waste which is required to be treated properly or stored securely to prevent its spillage to the surrounding. At present no such situation is envisaged.
- 4.4** The area small and dumps will be established by developing plantation on it as well as on the existing dumps so that spillage of dumps does not occur in the surrounding.
- 4.5** The mining operation is of semi-mechanized nature and small hole blasting is carried out in the area. There is no processing unit is to be erected for upgradation of mined out ore which will generate tailings and contaminated substance. So, there is no possibility of endangering the surrounding water bodies due to mining operation in the lease area.

## **5.0 SOCIO ECONOMICS:**

The small scale mining operations will not have any major effect on the socio-economics of the area. It will provide employment to the local people and will help in uplifting their living standards. Due to this reason there will be more improvement in the living condition of the people, there will be more employment in the area.

### **HISTORICAL MONUMENT:**

As no such monuments are situated in the vicinity of the area, the question of any adverse effect on them does not arise.

### **5.1 Occupational Health and Safety**

The method of mining is in semi-mechanized nature. There will not be any deployment of heavy machines in the area for carrying out mining operation which will create noise pollution, air pollution or any other operational hazards due to presence of machines. Precaution is required to be observed during drilling with jack hammers against dust or during blasting to be in the safe distance. Apart from these no other factor are envisage during future mining operation.

### **5.2 Human Settlement:**

In this region there will be mining activities in area. Though there is local populace available but due to increase in demand or increase in mining activity and there is possibility of migration of labour from surrounding area. For this reason there will be increase in the human settlement of the area. Due to increased revenue earning in the area there will be development of infrastructural facilities such as transport, road, housing, schooling as well as hospitals.

The details of human settlement within 5 Km radius of the area are given below:

Name of village	Distance km	Direction	Population	Main Occupation of people
Hiwara	-	2.5	1328	Agriculture
Mahadula	West	1.0	1348	Agriculture
Aroli	S.W.	3.0	4508	Agriculture
Wakesar	South	2.0	1915	Agriculture
Koodmendhi	S.W.	2.0	3939	Agriculture
Salaimeta	West	3.5	628	Agriculture
Kandri	East	3.0	4779	Agriculture
Jamb	East	4.0	3559	Agriculture
Indora	West	3.7	1549	Agriculture
Dhusala	South	3.0	1568	Agriculture

## **6.0 Summation**

- 6.1** The comprehensive baseline data collected for various environmental parameters shows that the manual opencast mine will not have any substantial impacts on these parameters. All these parameters are expecting to stay within permissible limit.
- 6.2** The anticipated working life of the mine will be about 19 years including construction period. Only impact, on surroundings, during life of the mine will be noise generated during blasting & drilling. There will not be any heavy deployment of machines in the area for mining operation as the mining will be in very small scale.
- 6.3** Due to mining activity in area there will be generation of employment to the local people. The mine will open doors of economic development and prosperity to the surrounding area.

\*\*\*\*\*