Executive Summary of Environmental Impact Assessment Report
For
Proposed Minerals Beneficiation Project
At: Navegaon Khurd, Tehsil Tiroda, District Gondia, Maharashtra



By

M/s. Devansh Industries

EXECUTIVE SUMMARY

A. PROJECT INFORMATION BRIEF

M/s. Devansh Industries has proposed a new Mineral Beneficiation Project at Village Navegaon Khurd, Tehsil Tiroda, District Gondia Maharashtra. Total Capacity of the project is MnO: 100 MT/Month (1200 MT/ Annum).

Raw material i.e. Mineral Ore will be sourced from MOIL. Geographical Coordinate of the project site is Latitude: 21°20'24.21"N Longitude: 79°48'58.62"E. Project site and 10 km radius area are covered under Toposheet No. 55 O / 11 and 55 O / 15 of SOI. Total area of plot is 1.01 Ha.

As per the Schedule attached to the EIA Notification 2006 and its amendment in 2009 the proposed project is covered under Project or Activity of 2 (b), namely **"Mineral Beneficiation"** requiring prior Environmental Clearance (EC). It is categorized as Category B1, requiring Environmental Clearance from the State Environmental Impact Assessment Authority (SEIAA). The project was discussed and ToR was recommended in 302nd SEAI-I committee meeting dated 25th July, 2025.

Madhya Pradesh-Maharashtra interstate boundary is at 20 km (Arial) from the proposed project site. Tumsar Town is 7.50 km NW from project site. Nearest settlement is Dewhada Khurd which is 1.35 km NW direction.

The project site is surrounded by agricultural land. Tumsar Road Railway Junction is 6.75 km towards W direction. Trees present on boundary of plot will be retained as it is under greenbelt. Total estimated cost of the project is 95.0 Lakhs.

Manganese Ore will be required for manufacturing of MnO. Raw material will be sourced from Nearby Mines of MOIL. Approximately 334 MT/annum of Manganese Ore will be sourced from MOIL.

Total 500 to 600 T/month of Indian Coal will be required as fuel for boiler. The same will be sourced from local area and will be transported by closed trucks. Required storage facility will be provided as per required.

Total water requirement for the project is 6.5 KLD. Required water will be source from Ground water for which necessary permission will be secured from competent authority. Total 0.8 KLD

of domestic waste water will be generated which will be managed through septic tanks followed by soak pit.

Local skilled and Semi-Skilled persons will be hired during construction and operation phase of the project. Total 20 workers during construction phase and 35 during operation phase shall be required.

One Coal based boiler of 1 TPH capacity will be installed at suitable location. Bag filter, Scrubber and 30 m Stack height shall be provided as per CPCB Guidelines.

B. SUMMARY OF ENVIRONMENTAL MONITORING RESULTS

Majority of the area at project site and 10 km radius area is covered by Agriculture land (22.7%), followed by Vegetation land (22.0 %). Rest of land is covered by Agriculture land, Built-up land, Harvesting land, vegetation and Open land.

The wind was blowing predominantly from the W, NW to NW and SE and E directions with maximum speed of 3.19 m/sec. The mean minimum temperature is 6°C and means maximum temperature is 45°C annually. Relative humidity during study season ranging from 19% (During April) to 41% (During March).

No National Park, Wildlife Sanctuary present within the project site. Project site is at 9.36 km from boundary of Koka WLS, New Nagzira WLS. ESZ of the same is 6.77 km from the project site. Wainganga River is 2.43 km W direction from project site. No water body, forest area falling within project site.

As per the seismic zoning map of India (ISI 1990), the project area falls in seismic zone III which signifies that the area may not be affected by any grave seismic event.

Total 64 Revenue Villages and settlements were identified in 10 Km Study area. Total population of the study area is 64510 residing in 14663 House Holds. Total male population of the area is 32422 and female population is 32088. Female Sex ratio out of 1000 Male is 990. As per Census 2011, the study area has scheduled castes population of 8286, while scheduled tribes' population is 7243 of the total population. 48823 population of the study area is literate. 15687 population is still illiterate in the area. Total working

population of the study area is 34449. Total 30061 population in the area is still unemployed including population on 0-6 age group.

Table No. E-1: Environmental Baseline Monitoring Results

Environmental Components	No. of sampling Locations	Parameters	Permissible limits		
Air Environment	8	PM10: 40.1 – 70.2 µg/m³ PM2.5: 7.2to 46.7 µg/m³ SO2: 6.2µg/m3 to 17.6 µg/m³ NOx: 6.3 µg/m3 to 19.2 µg/m³	PM10: 100 µg/m³ PM2.5: 60 µg/m³ SO2: 80 µg/m³ NOx: 80 µg/m³		
Noise Environment	8	Day time: 41.5 to 50.1 dB (A). Night Time: 35.7 to 45.5 dB(A)	**Category Of Zone**	**Leq in dB(A) Day**	**Night**
			Industrial	75	70
			Commercial	65	55
			Residential	55	45
			Silence Zone	50	40
Surface Water	2	pH: 7.72 to 7.82 TDS: 986 to 989.8 mg/L TH: 310.2 and 312.2 mg/L	The physico-chemical analysis results shows that the surface water from Wainganga River is within the prescribed limit for drinking water standards promulgated by Indian Standards (10500:2012).		
Ground water	7	pH: 7.0 to 7.50 TDS: 732.0 to 956.2 mg/l TH: 100.0 to 184.0 mg/l	All The results of samples were within permissible limits prescribed for drinking water standards promulgated by Indian Standards (10500:2012) in some samples.		
Soil	8	pH: 6.73 to 7.96 K: 75.3-89.2 kg/ha Na: 46.4 to 51.6 mg/kg N: 221.4 to 256.2 kg/Ha P: 7.4 to 8.9 kg/Ha.	-		

C. SUMMARY OF ENVIRONMENTAL IMPACT

- The Sources of air emission during construction phase will include site clearing, vehicles movement, materials storage and handling and operation of construction equipment's
- A fugitive dust emission is due to movement of vehicle and land preparation activities, loading and unloading of construction materials, top soil removal, movement of vehicles over dusty roads and air born dust from exposed project site
- Emission from the Boiler will increase the ground level concentration of pollutants
- Generation of noise may cause the difficulty on hearing capacity
- No Industrial Effluent will generate due to the proposed activity

- Domestic waste water will be managed through septic tank followed by soak pit.
- Care will be taken to avoid water pollution during rainy season due to washout of waste material from dumpsite by constructing garland drains & settling pond
- All construction activity will be strictly carried out in dry season
- The land use shall be changed from open non-agriculture land to industries
- Construction waste viz. paint cans, empty boxes, iron bars, wood chips, concrete, cement, plaster, glass will be generated and disposal on open land may cause soil pollution

D. ENVIRONMENTAL MANAGEMENT PLAN (EMP)

Air Pollution Management

- 30 m stack attached to Boiler for better dilution and dispersion of pollutants
- Scrubber with Bag filter is attached preceding to the stack to arrest particulate matter
- All vehicles and their exhausts will be well maintained and will be regularly monitored for emission generated from the vehicle exhaust.
- Control of the airborne fugitive emissions from the ore handling area will be achieved through regular water sprinkling in this area.
- Total 33% of total area will be developed under green belt. 350 Trees shall be planted. Existing tree will be maintained as it is under green belt.

Waste Water Management

- No Industrial Effluent will generate due to the proposed activity
- Total water requirement for the project is 6.5 KLD.
- Required water will be source from Ground water for which necessary permission will be secured from competent authority.
- Total 0.8 KLD of domestic waste water will be generated which will be managed through septic tanks followed by soak pit.
- Domestic waste water will be treated by Bio toilets.

Solid Waste Generation and Its Disposal

- Total 240 Ton/month of Ash (Fly Ash: 192 Ton/month, Bottom Ash: 48 Ton/month) Month and Domestic waste will be generated from the project activity
- Fly as well as bottom ash will be mechanically collected and sent to Brick Manufactures

- Tailing recycled in roasting Furnace
- Garbage collection bins will be provided at requisite locations for collection of dry waste & wet waste

Landscaping and Greenbelt Development

Green belt will be developed along plot boundary for width of 3 to 5 meters using varieties of plant species suitable to local environment. Total 350 trees shall be planted under greenbelt.

Occupational Health Safety Managements System

- Safety policy shall be displayed in the plant area
- Water sprinkling will be carried out in raw material unloading area
- Health check-up for operational workers will be carried out
- PPE will be provided to operational workers viz. Nose mask, ear muffs, ear plugs, safety gloves, helmets and safety goggles
- Training will be provided to workers in case of emergency
- First Aid box will be provided for emergency health hazards
- Emergency contact details of ambulance, hospital, police, safety in charge will be available
- Fire Fighting System will be provided at requisite location
- Sign boards will be provided at requisite location for safety measures
- "No Smocking Zone" shall be marked at fire prone area in the plant
- Safety audits shall be conducted

E. PUBLIC HEARING

To be conducted.

F. COST OF ENVIRONMENTAL MANAGEMENT PLAN

Total cost of Environmental Management Plan is about 10.0 Lacs. Recurring cost for the same is 2.35 Lahks/Year.

G. CONCLUSION

- Proposed project does not anticipate any adverse impacts on environment

- Workplace/ operation hazards, which will be minimized by providing personal protective equipment's, safety precautions & emergency plan
- Consequently, impacts on air, water, land and ecological environments are insignificant and the socio-economic benefits are predominantly positive
- Positive impact on employment generation will be envisaged in construction as well as operational phases
- Air emission through stack will be controlled by Scrubber and Bang filter
- No forest land is involved in the project
- No tree felling involved in the project