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PROCEEDINGS OF PUBLIC CONSULTATION (HEARING) FOR GREENFIELD PROJECT OF M/S K A I INTERNATIONAL PVT. LTD., FOR INSTALLATION OF IRON ORE BENEFICIATION PLANT – 1.5 MTPA THROUGHPUT (1.16 MTPA HIGH GRADE ORE), IRON ORE PELLETIZATION PLANT – 1.2 MTPA AND PRODUCER GAS PLANT – 27,000 NM<sup>3</sup>/HR AT VILLAGE KAPANDA UNDER TAHASIL OF SUNDARGARH DISTRICT HELD ON DATED 24.05.2022 (10.00AM) AT BAD PURNAPANI, FOOTBALL PLAYGROUND BLOCK – LAHUNIPARA, OF SUNDARGARH DIST. (ODISHA)

The public hearing meeting for Iron Ore Beneficiation Plant – 1.5 MTPA Throughput (1.16 MTPA high grade ore ), Iron Ore Pelletization Plant – 1.2 MTPA and Producer Gas Plant – 27,000 NM<sup>3</sup>/hr, held on dated 24.05.2022 (10.00am) at Bad-Purnapani, Football playground block – Lahunipara, of Sundargarh District. Sri Pradeep Dang, Sub-collector, Bonai of Sundargarh district had presided over the meeting. At the outset, Dr. Binod Bihari Dash, Regional Officer, State Pollution Control Board, Odisha, Rourkela delivered welcome address, organised and conducted the public hearing meeting in association with District Administration.

The Public hearing in respect of the above greenfield project was conducted as per the schedule and at the venue in accordance with EIA Notification S.O.1533(E) dtd.14.09.2006 and subsequent amendment therein. The Public Hearing meeting with regards to date, place and time was announced in public address system apart from its publication in local dailies. The process followed for the public hearing was adequate. The attendance sheet of the public present in the meeting is annexed herewith in **ANNEXURE-I**. Around 300 nos. of persons attended the public hearing meeting and two hundred seventy two (272) Nos. of persons have signed in attendance sheet. Eighty nine (89) nos. of persons had delivered their views whose list and their signature is given in **ANNEXURE-II**.

Dr. B.B. Dash, Regional Officer, State Pollution Control Board, Rourkela had welcomed the Public & explained about the importance of such hearing and also invited views, comments, objections & opinions of the public which are necessary while considering the environmental clearance of the project and he also told that those who want to give their written statement about the proposed projects, they can do so. He had also reminded / requested the public to follow the COVID-19 guidelines on wearing the mask and on maintaining the social distance during Public hearing those have been issued by the State Government. He briefly mentioned about the green field project of M/s. K A I International Pvt. Ltd. to setup

Iron Ore Beneficiation Plant – 1.5 MTPA Throughput ( 1.16 MTPA high grade ore ), Iron Ore Pelletization Plant – 1.2 MTPA and Producer Gas Plant – 27,000 NM3/hr in the land allotted by IDCO. He welcome and requested the Sub-Collector, Bonai to preside over and to conduct for the public hearing smoothly.

After that the Sub-Collector, Bonai had briefly described about the project and invited the project proponent of M/s. K A I International Pvt. Ltd. And Mr. Hari Hara Dash, Project Head had described about the proposed greenfield project of Iron Ore Beneficiation Plant – 1.5 MTPA Throughput ( 1.16 MTPA high grade ore ), Iron Ore Pelletization Plant – 1.2 MTPA and Producer Gas Plant – 27,000 NM3/hr, salient features of the proposed project and Environmental Management Plan, Pollution Control Measures to be adopted during mining operation, Blasting procedure, Plantation Programme and various other peripheral development activities and contribution towards increase of State revenue etc. to be carried out during the course of production. The salient features of the project is given as follows;

**Project Proposal:** M/s K A I International Pvt. Ltd. proposes for Setup Iron Ore Beneficiation Plant – 1.5 MTPA Throughput ( 1.16 MTPA high grade ore ), Iron Ore Pelletization Plant – 1.2 MTPA and Producer Gas Plant – 27,000 NM3/hr over an area of 19.319 ha land leased out from IDCO, Bhubaneswar.

**Location:** Kapanda Village Tehsil - Lahunipara, Sundargarh District, Odisha

**PROJECT DETAILS:**

| S. No. | Particular          | Details   |
|--------|---------------------|---|
| 1      | Type of project     | Greenfield Project  |
| 2      | Mining Lease area   | 19.319 ha ( Leased out from IDCO, Bhubaneswar ) Kisam - Patit   |
| 3      | Production Capacity | Iron Ore Beneficiation Plant – 1.5 MTPA Throughput ( 1.16 MTPA high grade ore ), Iron Ore Pelletization Plant – 1.2 MTPA and Producer Gas Plant – 27,000 NM3/hr |

|    |                                      |  |
|----|--------------------------------------|--|
| 4  | Total water requirement & source     | 665 KLD water required which will be sourced from Brahmani River Blow down water will be used for road sprinkling & plantation             |
| 5  | Power requirement & source           | The total power requirement for the proposed project is 12 MW which will be sourced from nearest GRID Purnapani substation ( 3.70 km ESE ) |
| 6  | Greenbelt & Plantation area          | An area of 21.69 Acre (i.e. : 45 % of the total project area ) will be covered under greenbelt /plantation.                                |
| 7  | Manpower requirement                 | Total employment generation (direct and indirect) will be of 500 persons. 280 will be direct employment.                                   |
| 8  | Project cost                         | Rs. 341.72 Crores  |
| 9  | Environment protection cost          | EMP capital cost is Rs. 18.72 Crores & Recurring cost is Rs. 1.24 Crores/ Annum  |
| 10 | National Parks/ Wildlife Sanctuaries | NONE.  |

## DESCRIPTION OF THE ENVIRONMENT

The baseline data is generated within 10 km radius for air, water, soil, noise & ecological studies. The baseline environmental data were generated for Post Monsoon period i.e. October to December 2021 by conducting field monitoring / studies.

### Met. Data

The data was collected in the post monsoon season. The pre dominant wind direction was found to be NW followed by NE. The major change was noticed between the site specific meteorological data & IMD data. The baseline monitoring locations were selected as per the data collected. The summary is mentioned below.

## Summary of Ambient Air monitoring (October to December 2021 )

### Particulate Matter (PM<sub>10</sub>):

- A maximum value of 81.3  $\mu\text{g}/\text{m}^3$  was observed at AAQ-8 (Rajamunda village) as NH-520 is passing by and the market area of Rajamunda village is adjacent.
- The minimum value of 32.4  $\mu\text{g}/\text{m}^3$  was observed at Project Site (AAQ-1).
- The average values were observed to be in the range of 38.3 (AAQ1) to 73.4 (AAQ8)  $\mu\text{g}/\text{m}^3$  and the 98% tile was observed by in the range of 42.1 (AAQ1) to 80.4  $\mu\text{g}/\text{m}^3$  (AAQ8).
- PM<sub>10</sub> at each selected location is well within the limit which is in accordance with geography of the vicinity as there are no major industries or densely populated area.

### Particulate Matter (PM<sub>2.5</sub>):

- A maximum value of 44.2  $\mu\text{g}/\text{m}^3$  was observed at AAQ-8 (Rajamunda village).
- The minimum value of 17.8  $\mu\text{g}/\text{m}^3$  was observed at Project Site (AAQ-1).
- The average values were observed to be in the range of 20.8 (AAQ1) to 39.7 (AAQ8)  $\mu\text{g}/\text{m}^3$  and the 98% tile was observed by in the range of 22.8 (AAQ1) to 43.6  $\mu\text{g}/\text{m}^3$  (AAQ8).

### Sulphur Dioxide (SO<sub>2</sub>):

- Maximum concentration of SO<sub>2</sub> is observed to be 14.2  $\mu\text{g}/\text{m}^3$  at AAQ-8 (Rajamunda village) and minimum value is <4.0  $\mu\text{g}/\text{m}^3$  observed at AAQ-1 (Project Site).
- The average values were observed to be in the range of 4.8  $\mu\text{g}/\text{m}^3$  to 12.2  $\mu\text{g}/\text{m}^3$  and the 98% tile was observed by in the range of 5.5  $\mu\text{g}/\text{m}^3$  to 14  $\mu\text{g}/\text{m}^3$ .

### Oxides of Nitrogen (NO<sub>x</sub>):

- Maximum concentration of NO<sub>2</sub> was observed to be 25.2  $\mu\text{g}/\text{m}^3$  at AAQ-8 at Rajamunda Village and minimum value is <9.0  $\mu\text{g}/\text{m}^3$  observed at AAQ-1 (Project Site).
- The average values were observed to be in the range of 10.5  $\mu\text{g}/\text{m}^3$  to 22.1  $\mu\text{g}/\text{m}^3$  and the 98% tile was observed by in the range of 11.7  $\mu\text{g}/\text{m}^3$  to 24.5  $\mu\text{g}/\text{m}^3$ .

**Carbon Monoxide (CO):**

- Maximum concentration of CO is observed to be 0.51 mg/m<sup>3</sup> at AAQ-8 (Rajamunda Village) and minimum value of 0.12 mg/m<sup>3</sup> observed at AAQ-1 (Project Site) & AAQ-5 (Nuagaon Village).
- The average values were observed to be in the range of 0.16 to 0.42 mg/m<sup>3</sup> and the 98% tile was observed by in the range of 0.21 to 0.5 mg/m<sup>3</sup>.

**Ambient Noise( October to December 2021 )**

- The day time and night time noise level in the study area was found to be under permissible limit.
- The maximum noise level was recorded at N-7 (Panchayat High School, Kapanda Village) during day time and at N-6 (Bagiabahal village) during night time.

**Surface Water( October to December 2021 )**

- Colour ranges from 5 Hazen to 35 Hazen. pH varies between 7.25 (SW2) to 8.03 (SW6).
- DO values at SW2 & SW3 locations are very low i.e. 2.8 & 3.6 mg/l which signify that these two ponds which signifies the probable presence of phyto-plankton and it require water impairment to make the aquatic animals survive. On the other hand the BOD values at these locations are 5.0 & 4.3 respectively.
- At all the locations the Oil and Grease is absent. Turbidity varies from 3.0 mg/l at SW6 to 29.4 mg/l at SW11.
- The chloride content at the locations is well within the permissible limits. TDS is also well within the prescribed standard.
- Heavy metals such as Lead, Arsenic, Cadmium etc. are below detectable limit.
- Maximum Fluoride content is 0.35 mg/l at SW11.
- Phenolic compounds are below detection limit in all the Surface water result.
- Total coliform ranges from 11 MPN/100 ml at SW2 to 47 MPN/100 ml at SW3 which is also within permissible range.

**Ground Water( October to December 2021 )**

- The odour and taste at all the locations are agreeable. Maximum color of 65 Hazen observed at GW7 which exceeds the permissible limit and correspondingly the turbidity is 64.7 NTU which signifies the contamination of ground water due to the

presence of any kind of clay, silt, very tiny inorganic and organic matter, algae, dissolved colored organic compounds.

- pH varies from 6.6 at GW1 to 7.85 at GW5. The Iron content is high at GW7 i.e. 2.2 mg/l.
- Total hardness ranges from 73 mg/l (GW1) to 325 mg/l (GW4).
- Heavy metals such as Lead, Arsenic etc. is below BDL at all the locations.
- These values shows that overall the ground water is safe for domestic purpose in surroundings of the project area, but for safer side it is recommended to treat the water especially of the location GW& (Budhikutuni Village) Shall be treated prior to use.

### **Soil Environment ( October to December 2021)**

- The soil sample shows pH ranging between 6.63 to 7.16.
- The samples analysis of Soil by method of HLS Tandon shows the soil to be sandy clay loam at all location except at S4 & S6 where it was found to be sandy clay.
- Conductivity ranges from 21.8  $\mu\text{S}/\text{cm}$  to 106.3  $\mu\text{S}/\text{cm}$  at S3 & S4 respectively.
- Porosity of the soil at all locations is observed to be in between 50.94%- 55.47%. Moisture content is found to be in between 0.11% to 0.83 %.
- Chloride ranges from 38 mg/kg to 152 mg/kg.
- Nitrogen content varies from 17.45 mg/kg to 23.28 mg/kg. Organic carbon varies from 0.29 % to 0.78 %.

### **Land use / land cover of Study area**

- Forest – The study area has a decent cover of deciduous forest due to proper rainfall in the district. It accounts for 42.25% of the total area as Samaradari Juniani PF, Dhenkiam RF, Nalaghati RF, Bhagoth RF covers the major forest land in the vicinity.
- Scrubland – Scrubland being an area covered with low trees & bushes covers mostly 40.6% of total area. The buffer zone is nearly 83% covered by either Forest land or Scrub land.
- Water Bodies – The study area is dominated by Brahmani River which starts from the North and ends in the SE direction passing through the project site in the west direction. Total area covered by water bodies is about 2.19%.
- Built-up Land – All of the settlements in the area are industrial and rural type, which covers the 3% of total land in buffer area. There are no major cities in the study

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area as the Western part of the buffer zone is mainly constituted by Hill & RF/PF. Majority of the population resides in the Eastern part as it is flat terrain area.

- Agriculture Land – This encompasses for about 8.6% of the entire study area. It is mostly alongside the river bank of Brahmani River.

### **Ecological Features**

There are no endangered or endemic wildlife species in the area. Different family of trees, climbers and herbs/shrubs are found in the study area. Fauna includes Mammals, Reptiles, Fish & birds. Birds in the impact area are all under Schedule-IV.

### **Socio Economic Environment**

Major Observation of the Socio-Economic Data/Information:

- Adequate School and Educational Institutes with low literacy rate of 59.74 %. This is primarily due to the language barrier as 57.38 % of the Population within the study area Scheduled tribes.
- Piped Water supply needs to be strengthened within the Study Area especially for the marginalized and under-developed.
- Irrespective of road connectivity (54.54 % of villages are connected with National/State Highway and villages connected with District's major roads are concluded to be 43.93 %), public transportation is very limited.
- The Health Care facility is also limited with partial resources for the population within the 10 kms radius from the project plant. VHND/Mamata Diwas and Pustikar Diwas are being regularly organized.
- Agriculture, NTFP & Daily Wages is primary occupation for majority of the population residing in the villages within 10 Kms of radius from the project site. However, Livestock rearing is also practiced and boosted by setting-up of Dairy plant.

### **Anticipated Environmental Impacts and Mitigations**

#### **Impact on Air Environment**

Impacts is envisaged during demolition stage, construction and operation stage.

#### **Demolition & Construction Stage**

- No demolition work is envisaged.

- Deterioration of air quality due to fugitive dust emissions from construction activities (especially during dry season) like excavation, back filling and concreting, hauling and dumping of earth materials and from construction spoils.
- Emission of gaseous pollutants due to operation of heavy vehicles and movement of machineries and equipment for material handling, earth moving, laying of sands, metal, stones, asphalt, etc.

### **Mitigation**

- Proper maintenance of vehicles and construction equipment will help in controlling the gaseous emissions. Vehicle meeting PUC norms will be used to further control the gaseous emission. Water sprinkling on roads and construction site will prevent fugitive dust. Vehicles and machineries would be regularly maintained so that emissions conform to standards of Central Pollution Control Board (CPCB).
- Materials will be stored in covered warehouses or enclosed spaces to prevent the windblown fugitive emissions.
- Adequate dust suppression measures such as regular water sprinkling at vulnerable areas of construction sites will be undertaken to control fugitive dust during material handling and hauling activities.
- Monitoring of air quality at regular intervals will be conducted during construction phase.
- Construction workers will be provided with dust masks to protect them from inhaling dust.

### **Operation stage Impact**

During operation phase, major sources of air pollution are:

- Raw material and product handling areas.
- Production process.
- Movement of Vehicles.
- The operational phase of the project comprises of various activities each of which will have an impact Air Quality. Both Dust & Gaseous emissions are likely to be emitted. The key emissions from the proposed Project are emissions due to Particulate Matter, Sulphur dioxide (SO<sub>2</sub>), Nitrogen dioxide (NO<sub>2</sub>) & CO.
- The Producer Gas plant will be operated in close circuit with provision of filters to arrest dust particles in the gas stream. So there will not be any emissions from the PGP.



**Mitigation**

Installation of proper pollution control equipment like ESPs/Bag filters for arresting emissions. Details have been provided in Table.

All the vehicles carrying materials will be covered with tarpaulin / plastic sheet. Only vehicles with valid PUC certificate will be allowed.

**Air pollution Control Equipment details**

| Section                    | Source                              | Air Pollution Control   |
|----------------------------|-------------------------------------|---|
| <b>Beneficiation Plant</b> | Raw material handling and storage   | Provision of wind break walls near raw material storage area<br>Periodic water sprinkling on Raw material storage area. |
|                            | Belt Conveyors                      | Covering of belt conveyors<br>Provision of water sprinklers at transfer points  |
| <b>Pellet Plant</b>        | Raw material handling               | Induration Furnace ESP  |
|                            | Coke Grinding                       | Raw material handling Bag filter  |
|                            | Proportioning system                | Coke Grinding Bag Filter  |
|                            | Induration furnace Travelling Grate | Proportioning system Bag Filter   |
|                            | Hearth Layer Separation Building    | Finished product handling Bag Filter  |
|                            | Finished product handling           | Hearth Layer Separation Building  |
| <b>Producer Gas Plant</b>  | Coal gasification chamber           | Closed circuit plant with provision of gas filtration systems.  |

**Dispersion Modelling- Summary**

- During the Uncontrolled condition maximum predicated GLC for the PM10 was observed to be 38.2 µg/m3 at location AAQ7. However, the maximum cumulative GLC will be 105.61- µg/m3 at AAQ8 location. Which is due to existing baseline condition, project activity, increase in traffic movement as it is near to the intersection point of NH 23 & 215 and meteorological factors.
- During the Controlled condition maximum predicated GLC for the PM10 was observed to be 0.8 µg/m3 at location AAQ7. However, the maximum cumulative

GLC will be 80.7  $\mu\text{g}/\text{m}^3$  at AAQ7 location. Which is due to existing baseline condition, project activity and meteorological factors.

- During the Uncontrolled condition maximum predicated GLC for the PM<sub>2.5</sub> was observed to be 26.5  $\mu\text{g}/\text{m}^3$  at location AAQ7. However, the maximum cumulative GLC will be 62.29  $\mu\text{g}/\text{m}^3$  at AAQ8 location.
- During the Controlled condition maximum GLC for the PM<sub>2.5</sub> was observed to be 0.5  $\mu\text{g}/\text{m}^3$  at location AAQ7. However, the maximum cumulative GLC will be 43.9 $\mu\text{g}/\text{m}^3$  at location AAQ7.

### **Impact on noise & vibration environment**

#### **Demolition**

- No demolition work is envisaged.

#### **Construction phase**

During construction phase, noise will mainly be due to civil work activities, construction of internal road, installation of machineries etc. Other activities which will contribute to ambient noise level will be movement of vehicles for transportation of construction material, equipment & also for to & fro of manpower. But this will be temporary in nature & will not last for too long.

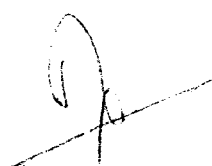
#### **Operation phase**

During Operation Phase the sources of noise& vibration are running equipment viz. Exhaust fans, vibratory screens, ball mill, compressors, pumps, cooling towers, etc. It may be due to poor lubrication, worn out parts, loosened nuts/ bolts, improper foundation and its mountings, flattened springs support etc. The noise can also be generated due to other ancillary activities and movements of vehicles on roads, highways etc.

The Noise Level near the machinery will be maintained below 85 dB (A) and the expected noise levels at the project boundary will be maintained below 75 dB (A) during day time & 70 dB (A) during night time.

Vibrations are generated in the machines due to moving / rotating parts.

Whole body vibration (WBV) is mainly concerned with large shocks or jolts when there is a risk of injury to the back and usually applies to workers in the sitting or standing position



when travelling in mobile machinery over rough surfaces for extended periods. The major health problem associated with WBV is back pain.

**Mitigation measures for Noise & Vibration Environment**

**Demolition**

Noise abatement - Machinery deployed during demolition activities

- Demolition activities will be restricted as per Noise (Regulation & Control) Rules 2000 i.e. Daytime: 6 am to 10 pm.
- To control the noise, regular preventative maintenance of equipment to be carried out. Regular and proper maintenance of noise generating machineries to avoid noise increase.

**Construction phase**

- Personal Protective Equipment (PPE) such as earplugs, earmuffs etc. will be provided to construction personnel exposed to high noise levels as preventive measures by contractors and will be strictly adhered to minimize / eliminate any adverse impact.
- It will be ensured that all the construction equipment and vehicles used are in good working condition, properly lubricated and maintained to keep noise within the permissible limits and engines turned off when not in use to reduce noise.

**Operational phase**

- Silencers will be provided in the machineries generating high noise.
- Green belt/plantation will be developed all along the project boundary.
- Regular monitoring of noise level is carried out and corrective measures in concerned machinery will be adopted accordingly.
- The overall aim towards control of noise pollution is not only to restrict the ambient and work zone noise within the specified norms but also to have minimum noise above the prevailing ambient noise levels in the vicinity of the pellet plant.

The following control measures will be adopted in the plant to minimize the impacts due to vibrations:

- Procurement of less vibration generating machines/equipment.
- Periodic preventative maintenance of all the machines/equipment.
- Provision of suitable hand gloves & safety shoes to operators.

- Provision of vibration absorbing seats in transportation and other heavy vehicles.
- Periodic training to operators on how to prevent health problems caused by vibration.
- Periodic medical examination of the workers.
- Periodic vibration monitoring at major equipment, where operators are directly exposed to vibrations.
- Periodic vibration monitoring at major equipment, where operators are directly exposed to vibrations.

## **Impact on land Environment**

### **Construction phase**

The company has already acquired land. The project site is more or less leveled land. Thus there will be not much cutting or filling required. The demolition waste generated will be used for land filling purpose inside the project boundary as the western side which is hilly and covered with trees will be retained as it is and gap plantation will be done to increase the plantation density and also to check the soil erosion.

### **Operation Phase**

During operation phase there is a possibility of soil contamination due to storage of raw materials, oil and grease and end products because of leaching.

### **Mitigation measures for land environment**

Apart from change in land use, no adverse impact is envisaged. Minor construction work will not affect the topography. Pollution control measures for air and water would ensure low risk of land contamination. Materials will be stored on concrete floor or floor with impervious liners. Material storage area garland drains will collect the surface run-off and routed to clari-flocculator and then reused.

## **Impact on Water Environment**

### **Construction phase**

Surface water runoff problem will be the sole impact which can affect the water quality through washing off excavated soil or soil erosion. Only oil and grease due to vehicle movement during construction phase may impact the surface water bodies. Adequate drainage system for runoff water will be provided to overcome such problem.



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### Operation phase

The net water requirement for the proposed project is 665 KLD which will be sourced from Brahmani River. Process effluent from beneficiation process will be treated in thickener and will be recycled in beneficiation process. Domestic waste water will be treated in STP of 15 KLD capacity. There will also effluent generation from producer gas plant. Which will be treated within the gassifier system as mentioned in chapter 2. As the project is proposed to have Zero Liquid Discharge (ZLD), no negative impact is envisaged on any surface water bodies in nearby areas. Surface flow of water may cause the surface water to be contaminated mainly with inorganic solids, either in suspension or solution, e.g., oil, grease etc. Groundwater extraction is not proposed.

### Mitigation measures for Water Environment

#### Construction phase- Control of water pollution

- Quality of construction wastewater emanating from the construction site will be controlled through temporary drainage system with sediment traps (silt basin as water intercepting ditch) for arresting the silt / sediment load before its disposal.
- All the washable construction material will be stored under sheds or enclosed space by fencing it with brick or earth in order to prevent spillage into the drainage network, so that the same does not find its way into the surface water runoff.
- The sediment traps and storm water drainage network will be periodically cleaned and especially before monsoon season.

### Operation phase

Domestic waste of around 10.71 KLD will be generated which will be treated in STP of 15 KLD capacity. Phenolic water from PGP will be treated in gassifier system.

**Sewage Treatment Plant:** STP of 15 KLD with MBBR technology will be used to treat 10.71 KLD domestic sewage. The treated water will be recycled and reused for dust suppression & plantation purposes.

### Solid & Hazardous waste Management

| Beneficiation Plant |     |          |
|---------------------|-----|----------|
| Solid waste         | TPA | Disposal |

|                                      |            |  |
|--------------------------------------|------------|--|
| Tailing                              | 3,40,000   | Dewatered and stored in slime/tailing storage area, then disposed to construction contractors for road & construction fillings. And the collected water will be recycled in process. |
| Pellet (including PG) Plant          |            |  |
| <b>Solid waste</b>                   | <b>TPA</b> | <b>Disposal</b>  |
| Fines collected from ESP/Bag filters | 45,927     | Will be recycled in pellet plant along with concentrate  |
| Ash from PGP                         | 21213      | To road construction contractors / masonry blocks manufacturing (Rourkela – 40 kms)  |
| Tar                                  | 2828       | Sold to Authorized Coal tar processing units (Shriya Chemicals, Rourkela 40 km)  |

#### Hazardous Waste – Category, Quantity & Disposal

| Category of Hazardous Waste as per the Schedules I, II & III of these rules | Waste Description                            | Quantity    | Mode of Disposal   |
|---|--|-------------|--|
| Schedule- I<br>Sl. No.- 5.1   | Used Oil                                     | 1.5 KLA     | Stored and disposed to Authorized recyclers as per norms (Shriya Metals & Chemicals, Rourkela 40 km)   |
| Schedule- I<br>Sl. No.- 4.1   | Oily Sludge                                  | 0.25<br>KLA | Stored and disposed to Authorized recyclers/CHWTSDF as per norms   |
| Schedule- I<br>Sl. No.- 5.2   | Oil Wastes/<br>Residues<br>Containing<br>Oil |             |  |
| Schedule- I<br>Sl. No.- 19.1  | Phenolic<br>water                            | 6.42<br>TPA | Dedicated system will be provided to treat, neutralize and reuse wastewater within the gasifier system and the phenol will be sent to Authorized Recyclers/ Processors |

#### Analysis Of Alternatives

The following three alternative sites have been considered for the proposed plant before finalizing the site.

- Kapanda
- Raikela

- Lauposh

### **Feasibility criteria for selecting the Site 1:**

- The total number of trees present within the plant boundary is near to 3972 in site 1 from which 260 no of trees to be transplanted/felled.
- The Brahmaniriver which will be the source of water is adjacent (1.65 km) to the site.
- National Highway is 3.1 km from the site.
- Power Grid (Purunapani sub-station) is 3.70 km.

### **Rejection criteria for not selecting Site 2 & Site 3:**

#### **In site 2:**

- Trees present within the plant boundary is 23,467 no.,
- Trees coming in main plant is more.
- The land is hilly terrain area (MSL 370 m – 444 m) and Dense forest.
- NH & SH are more than 10 km from the site.

#### **In site 3:**

- Habitations are near to plant boundary,
- Trees present in boundary 15,442 no. (MSL 209 m – 289 m)
- OMC Power GRID is 8 km from the site.
- Distance from Koida Iron ore mine 22 km.

### **Analysis of Alternate technologies**

- Travelling Grate & Grate-Kiln-Cooler are the universal processes for indurations of green pellets using hematite iron ores.
- Travelling grate technology will be adopted.

### **Environmental Monitoring Program**

The monitoring and evaluation of the management measures envisaged are critical activities in implementation of the Project. Monitoring involves periodic checking to ascertain whether activities are in accordance with the plans. It provides the necessary feedback for project management to keep the program on schedule. The purpose of the environmental monitoring plan is to ensure that the envisaged purpose of the project is achieved and results have desired benefits.

To ensure the effective implementation of the proposed mitigation measures, the broad objectives of monitoring plan are:

- To evaluate the performance of mitigation measures proposed in the EIA.
- To suggest improvements in Environmental management plan, if required.
- To enhance environmental quality.
- To implement and manage the mitigative measures defined in EMP.
- To undertake compliance monitoring of proposed project operation and evaluation of mitigative measure.
- Control of activities inside the plant, until the environmental problem has been corrected.
- Suitably respond to emergency situations. Provide details of the emergency and the actions taken to the top management
- Suitably make modifications or alterations in the plant to meet regulatory standards as amended from time to time.

**Cost for EMP is discussed below-**

**Estimated Cost of Environment Monitoring Plan**

| Sl. No.      | Particulars  | Total (in Rs. Lakhs) |                     |
|--------------|--|----------------------|---------------------|
|              |  | Capital              | Recurring per annum |
| 1            | Cost of monitoring of environmental parameters for Air, Water and Noise              | 40                   | 38.0                |
| 2            | Occupational Health & Safety (Surveillance of H&S and monitoring of Worker's health) | 20                   | 6.0                 |
| 3            | Plantation (Monitoring)  | -                    | 1.5                 |
| 4            | Performance evaluation of Pollution Control Equipment                                | 10                   | 12.0                |
| <b>Total</b> |  | <b>70</b>            | <b>57.5</b>         |



## Project Benefits

- Improvement in physical infrastructure, Improvement In social Infrastructure  
Employment Potential- Skilled; Semi-Skilled and Unskilled
- Additional housing demand for rental accommodation will increase
- Cultural, recreation and aesthetic facilities will also improve.
- Improvement in communication, transport, education, community development and medical facilities.
- Overall change in employment and income opportunity.

## Environmental Management Program

### During Construction

- All washable construction material will be stored under sheds or enclosed space to prevent spillage into the drainage network
- Use of covered trucks
- Regular water sprinkling at vulnerable areas of construction site and roads
- Construction waste generated will be disposed by use for leveling of pre-identified low lying areas within the plant.

### During Operation

- All APCDs designed / upgraded to meet PM emissions of < 30 mg/Nm<sup>3</sup>
- Dust suppression consisting of water sprinkling facilities, dry fog and De dusting systems.
- Heavy noise generating equipment like – blowers/fans, crushers, compressors provided with acoustic barriers/ enclosures.
- Provision of PPEs, ear plugs/muffs provided to personnel working close to the noise generating equipment.
- ZLD systems will be implemented in the proposed plant.
- Process effluent from Beneficiation plant is recycled and kept in closed circuit through thickeners, so that there is no discharge of wastewater.
- STP based on MBBR technology for treatment of domestic wastewater.

The Regional Officer, SPCB then invited the public to put forth their views, suggestion, comments and objections on matters relating to environmental aspects of the project. **Fourth Seven Nos. (47)** of written representation has been received and annexed in **Annexure-III**. The video recording of the

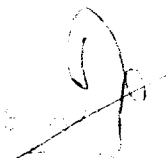


meeting was done. **Eighty nine (89) nos.** of speakers opined their views which are given as follows:

- 1) **Sri GetaCharan Dash, Kapanda:-** Sri Dash welcome all to the public hearing and extent his support to the public hearing for project. He demanded for local employment for the youth, medical facility for the villagers and development of local villages under CSR activity.
- 2) **Sri Bibhuti Bhusan Padhi, Rajamunda:-** Sri Padhi welcome all and supported the public hearing for the propose project. He stated that lots of mining project is situated in Bonai Sub Division area and local people are facing difficulties due to non availability of iron based industry. He demanded for environment protection, local employment as per their qualification, road development and education and health care facilities in Bonai area.
- 3) **Sri Bishnu Chandra Kisan, Kapanda:** Sri Kisan welcome all and extent his support for the public hearing of the project. He stated that local youths are going abroad for employment and due to propose project local youths will be benefit. He demanded for improvement on road network, local employment as per their qualification, drinking water facility, medical and emphasize on education facility for the local villagers.
- 4) **Sri Bikram Patra, Kapanda:-** Sri Patra welcome all and supported the public hearing of the project. He demanded for improvement on road network, local employment as per their qualification, drinking water facility, medical and emphasize on education facility for the local villagers.
- 5) **Sri Rajesh Kumar Dash, Kapanda –** Sri Dash welcome all. He extent his support for the project in the public hearing. He expressed that they are excited due to establishment of proposed plant by M/S KAI International and expect that the project proponent will cooperate with local people. He demanded for development of road, employment, education and environment facility for the local villagers.
- 6) **Sri Kandru Kishan, Nuapada-** Sri Kishan welcome all and supported the public hearing. He expressed that local employment opportunities will be created after establishment of proposed plant.

- 7) **Sri Surendra Kumar Kumbhar, Kapanda:-** Sri Kumbhar Secretary of Jay Jagannath Seva Trust welcome all and extent his support for the public hearing. He demanded to project proponent for improvement in unemployment situation along with development in road, education & good health of local public.
- 8) **Sri Raju Kishan, Kapanda:-** Sri Kishan support the hearing and demanded for overall village development, local employment and better education facility to the villagers.
- 9) **Sri Siba Charan Kishan, Kapanda--** Sri Kishan extent his support for the public hearing and demanded for village social & economical development. He also expressed that the demand raised by the previous speaker shall be implemented by the project proponent.
- 10) **Smt. Sandhyarani Das, Kapanda-** Smt. Das welcome all and extend her support to the public hearing. She demanded for development in education facility of the youth in Kapanda village.
- 11) **Smt. Binapani Das, Kapanda -**Smt. Das welcome all and support the public hearing.
- 12) **Smt. Jayanti Sahu, Kapanda-** Smt. Sahu extend her support for the hearing due to generation of employment opportunities along with improvement in education and health care facilities. She also expressed that the drunker people of local village will be benefitted by engaging in the proposed plant.
- 13) **Sri Anadicharan Bagarti, Kapanda-** Sri Bagarti extends his support with local employment for youth.
- 14) **Sri Umesh Kishan, Kapanda-**Sri Kishan extend his support with local employment for youth and demanded to focus on environment protection.
- 15) **Sri Trilochan Majhi, Badapurnapani-** Sri Majhi welcome all and extend his full support for the public hearing. He expressed his happiness for the local people and demanded to provide local employment.
- 16) **Sri Motilal Sahu, Kapanda-** Sri Sahu extends his support for the public hearing. He stated that the local body and local migrant worker will get employment after establishment of industry.

- 17) **Sri Millan Chandra Mahanta, Lahunipada-** Sri Mahanta welcome all and extend his full support and demanded for local employment, health facility, supply of clean drinking water and plantation of trees in vacant government land.
- 18) **Smt. Sunita Kishan, Kapanda-** Smt. Kishan extend her support for the project due to employment to unemployed youth.
- 19) **Smt. Rashmita Patra, Kapanda-** Smt. Patra extend her support for the public hearing due to employment to educated unemployed youth.
- 20) **Smt. Laxmi Kishan, Kapanda-**Smt. Kishan extend her support for the public hearing with employment to educated unemployed youth.
- 21) **Sri Sadhu Oram, Ward Member, Bad Purnapani-**Sri Oram support the public hearing with employment to local youth people.
- 22) **Sri Debasis Mahanta, Kapanda-** Sri Mahanta extend his support for the public hearing.
- 23) **Sri Patel Patra, Kapanda-** Sri Patra welcome all and extend his support for the public hearing for local employment and better health and education facility.
- 24) **Sri Budhu Kishan, Kapanda-** Sri Kishan supported the hearing and stated that development of road, health, education will take place due to the propose project.
- 25) **Sri Biswanath Kishan, Kapanda-** Sri Kishan supported the public hearing with emphasis on local employment by project proponent.
- 26) **Smt. Sabita Patra, Kapanda-** Smt. Patra welcome all and extend his support for the project and requested plant authority to emphasize on eradication of unemployment.
- 27) **Sri Kandi Charan Munda, Lahunipada -** Sri Munda welcome all and extend his support for the public hearing.
- 28) **Smt. Anita Munda, Patajharan-** Smt. Munda opposed the public hearing due to deforestation of their forest and they are dependent on forest as forest gives seasonal fruits, honey etc. She stated that they will cultivate in their forest land and they will manage their livelihood. She expressed that due to air pollution the leafs are being black and water is being polluted and aquaculture are



affected. She also stated that due to lack of educated people in their locality employment generation will be negligible.

She also stated that due to industry people are affected from kind disease and if they are propose o setup they may establish the industry in Kapanda village not in their forest area.

29) **Smt. Archana Kishan, Kapanda-** Smt. Kishan extends her support for the public hearing for local employment opportunities due to the upcoming project in this area.

30) **Smt. Saraswati Kishan, Kapanda-** Smt. Kishan welcome all and extended her support for the project and requested project proponent to employe the local unemployed people.

31) **Sri Laxman Munda, MLA, Bonai-** Hon'ble Sri Munda welcome all and extend his support for the public hearing. He expressed that project proponent shall take care the local tribal people for their livelihood, environment protection, priority to engage local tribal people as per their educational qualification and financial supports during all local festival & cultural programmes by KAI International.

32) **Sri Kamal Lakra, Banki-** Sri Kamal extend his support and demanded to emphasis on Environment protection, health, education of villagers. He also stated that due to propose project the local people will get employed and he requested all villagers to support the proposed project.

33) **Smt. Mamata Kishan, Kapanda-** Smt. Kishan extends her support with demand for employment to educated villagers.

34) **Sri Gayadhar Kishan, Nuagaon-** Sri Kishan welcome all extend his support and demanded for all types of developmental works in favour of the local villagers.

35) **Sri Meghu Patra, Bonai-**Sri Patra welcome all and extend his support and request to laid emphasis on Road development.

36) **Smt. Srimati Kishan, Kapanda-** Smt. Kishan extend her support for the upcoming project.

- 37) **Sri Changa Oram, Sarpanch, Bad Purnapani**-Sri Oram extend his support for the public hearing and expressed that the project proponent shall implement the issues raised by previous speaker.
- 38) **Sri Narendra Kishan, Nuagaon**-Sri Krishna welcome all and extend his support for the public hearing.
- 39) **Sri Manik Lal Jaiswal, Rajamunda**- Sri Jaiswal welcome all and expressed that they are happy for the project. He stated that if steel plant was established in Bonai earlier, local people were benefitted and their livelihoods were much better. He stated that due to establish the company the whole district of Sundargarh as well as other local area will be benefitted as per their qualification and their experience. He supported the public hearing.
- 40) **Smt. Gomati Kishan, Kapnda**- Smt. Kishan extend her support to the public hearing with local employment.
- 41) **Sri Duryodhan Kishan, Nuagaon** - Sri Kishan extend his support and demanded for employment of local people with local village development.
- 42) **Sri Judishthira Tripathy, Gadhiali**- Sri Tripathy welcome all and expressed that labour class migrate worker, educated & qualified local people will be benefitted socially & economically due to the upcoming project. He requested that plant authority shall take steps for air pollution, water pollution, road development and priority on local employment.
- 43) **Sri Duryodhan Mahanta, Darjing**- Sri Mahanta extend his support and demanded for local employment opportunity for local people of Darjing Villages, health & free ambulance facility and supply of clean drinking water facility.
- 44) **Sri Prana Krushna Kishan, Nuagaon**- Sri Kishan extend his support for the public hearing. He stated that tribal people residing in Badbahal village are facing difficulties due to the propose project. The innocent tribal people should not suffer due to the propose project. He demanded that all the poor tribal people should be given first job opportunities and priority should be given to the affected for development shall be given to local tribal people. He requested district Administration & project proponent to take care the tribal people.
- 45) **Smt. Julni Kandir, Lahunipada** - Smt. Kandir welcome all and extend her support to the public hearing for proposed project.

- 46) **Smt. Sumati Munda, Lahunipada-** Smt. Munda welcome all and supported the public hearing.
- 47) **Sri Bhimsen Choudhury, Ex-MLA, Bonai-** Sri Choudhury welcome all and supported the public hearing. He stated that not only 1000 local people will directly engage however, around 5000 people will get income opportunities directly or indirectly after implementation of the project. He requested project proponent for plantation of fruit bearing trees, dust pollution control measures and employment of local people. He also thanks to the state government to choose this village for the upcoming project.
- 48) **Sri Ranjeet Kumar Sahu, Rajamunda-** Sri Sahu extend his support and expressed that value of land will increase after establishment of plant as well as good roads will also be build. He stated that lots of development work has already been conducted by the project proponent. He requested plant authority to construct road from Tikayatpali village to main plant gate.
- 49) **Sri Santanu Kumar Dash, Bhaludungari -**Sri Dash extend his support for the public hearing for employment of local people. He requested plant management and District Administration to develop the eight affected villages and provide financial as social support.
- 50) **Sri Kanhuch. Kisan, Gadapali-** Sri Kishan supported the public hearing. He demanded to provide an ESI medical in Bonai area, compensation to land looser & affected villagers, road development, electricity and fruit bearing trees plantation on vacant government land to abate pollution.
- 51) **Smt. Laxmi Kishan, Rajamunda -** Smt. Kishan welcome all extend her support for the public hearing and demanded local employment educated people will get engaged as per their qualification and Transportation system will get improved.
- 52) **Sri Parsuram Mahanto, Kapanda-** Sri Mahanto extend his support for the public hearing.
- 53) **Smt. Kishori Bagarti, Kapanda-** Smt. Bagarti extend his support for the public hearing.
- 54) **Smt. Baulo Kisan, Kapanda-** Smt. Kishan extend his support for the public hearing.



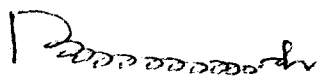
- 55) **Smt. Beronika Munda, Patta Jharan-** Smt. Munda opposed the public hearing due to damage of agricultural land which leads to pollution. She also stated that they are not well educated and they will not grab the employment opportunity.
- 56) **Sri Narayan Kumbhar, Samirpali-** Sri Kumbhar supported the public hearing. He demanded for artificial environment, plantation & employment to local youth.
- 57) **Sri Pradeep Ku. Behera, Rajamunda-** Sri Behera welcome all then extend his support and demand for priority to local people for employment, clean drinking water facility, construction of Road, and club house for villages.
- 58) **Smt. Kuanri Jojo, Pattajharan-** Smt. Jojo opposed the project due to establishment of industry in forest area. The industry will generated the Methane, Ethane, green houses gases and other toxic gases which will harmful for mankind and leading to global warming. She stated that deforestation with establishment of sponge iron industry in forest area is illegal.
- 59) **Sri Chalot Ku. Panda, Rajamunda -**Sri Panda supported the public hearing.
- 60) **Sri Bijay Kumar Kisan, Kapanda-** Sri Kisan extend his support for the public hearing.
- 61) **Sri Luthar Oram, Lahunipada -**Sri Oram extend his support for the public hearing and stated that the country will develop with establishment of industry.
- 62) **Smt. Rashmi Munda, Pattajharan-**Smt. Munda oppose the public hearing due to deforestation and increase of pollution in their area. She stated that due to deforestation they have loose all the medicinal plant and cultivation.
- 63) **Sri Fakir Mohan Sahu, Kapanda -**Sri Sahu extend his support and demanded development of tribal local village and education facility under CSR scheme and eradication of unemployment.
- 64) **Sri Govinda Mahakud, Kapanda -** Sri Mahakud extend his support for the public hearing.
- 65) **Sri Chitaranjan Patra, Kapanda -**Sri Patra extend his support for the public hearing.
- 66) **Smt. Namita Mahanto, Lahunipada -** Smt. Mahanto supported the project and request for establishment of an ITI College in Bonai area.
- 67) **Sri Rajendra Barik, Kapanda-** Sri Barik welcome all and extend his support and expressing his happiness for engagement of local migrants worker.



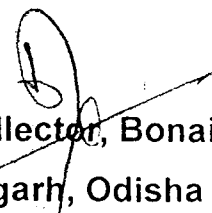
- 68) **Sri Rushi Ku. Munda, Badbahal-** Sri Munda welcome all and extend his support for the public hearing and demanded for allotment of Patta to the land less people.
- 69) **Sri Bijay Patra, Kapanda:-** Sri Patra extend his support for the public hearing.
- 70) **Sri Asish Kumar Kar, Tumakela:-** Sri Kar welcome all and support the public hearing and demanded for Land Patta to the land less people.
- 71) **Sri Biranchi Narayan Sahu, Gamlei: -** Sri Sahu extend his support for the upcoming project.
- 72) **Smt. Nuadei Kisan, Nuagaon:-** Smt. Kisan oppose the public hearing for degradation of environment due to rapid industrialization.
- 73) **Smt. Anita Jojo, Patajharan:-** Smt. Jojo oppose the project for increase of air pollution by tree cutting.
- 74) **Sri Chakradhar Sahu, Gamlei:-**Sri Sahu extend his support for the public hearing.
- 75) **Sri Bhajan Kishan, Jibikaposh-** Sri Kishan supported the public hearing and requested for free education and employment.
- 76) **Sri Manas Kumar Pal, Tumkela:-** Sri Pal extend his support for the public hearing and the upcoming project and demand for generating employment.
- 77) **Sri Sashank Ku. Nanda, Bonai:-**Sri Nanda extend his support for the public hearing.
- 78) **Sri Karunakar Sahu, Gamle:-** Sri Sahu support the public hearing and demand for ESI medical.
- 79) **Sri Ashutosh Jaiswal, Banki-** Sri Jaiswal welcome all and extend his support to setup the project by M/s. KAI International Pvt. Ltd. and suggested to establish another plant at Gurundia block.
- 80) **Sri Kuleswar Kishan, Rajamunda:-** Sri Kishan supported the hearing and demand for eradication of all the problem of the locality.
- 81) **Sri Jagabandhu Kisan, Nuagaon:-** Sri Kisan extended his support for the public hearing.
- 82) **Sri Pradumna Tripathy, Bonai -** Sri Tripathy extended his full support and expressed that KAI group will solved all the problem of locality.

- 83) **Sri Sudhansu Ch. Tripathy, Gudiali**- Sri Tripathy extend his support for the public hearing.
- 84) **Sri Singray Munda, Darjing**- Sri Munda support the public hearing and laid emphasis on transportation and requested for plantation of more trees to save the environment.
- 85) **Sri Susanta Mundari, Badapurnapani** - Sri Mundari extend his support for the public hearing.
- 86) **Sri Ashok Ku. Behera, Rajamunda** -Sri Behera extend his support for the public hearing.
- 87) **Sri Sundarmani Pradhan, Banarkela**-Sri Pradhan extend his support for the public hearing and demanded for engagement of local people on priority basis.
- 88) **Smt. Sevati Nayak, Samardari** -Smt. Nayak extend her support and demand that all the problem of local people should be solved by the company administration.
- 89) **Sri Kumar Goutam Barik, Arkeikela** -Sri Barik supported the public hearing and expressed that KAI group has a huge project so more people will be engage. He also requested project proponent for plantation of trees, road development, generating employment and abatement of pollution.

The Sub Collector, Bonai then elaborated on the issues raised by the public and requested M/s. K A I International Pvt. Ltd. to explain people on the issues. Sri Hemant Kumar Pati, Manager (HR) of M/s. K A I International Pvt. Ltd. Clarify the issues raised by the people which are listed in the executive summaries at Annexure – A and B in English and Oriya language respectively which were read before the audience in Odia language in public hearing meeting. Sri B. K. Bhoi, Asst. Env. Engineer of State Pollution Control Board, Odisha Regional Office Rourkela extended vote of thanks and Sub collector gave closing remarks and the meeting was concluded with expression the meeting.



**Senior Environment Scientist and Regional Officer**  
**State Pollution Control Board, Odisha,**  
**Regional Office, Rourkela**



**Sub-Collector, Bonai**  
**Sundargarh, Odisha**

EXECUTIVE SUMMARY OF PUBLIC CONSULTATION (HEARING) OF M/S K A I INTERNATIONAL PVT. LTD., OF GREENFIELD PROJECT OF IRON ORE BENEFICIATION PLANT – 1.5 MTPA THROUGHPUT (1.16 MTPA HIGH GRADE ORE ), IRON ORE PELLETIZATION PLANT – 1.2 MTPA AND PRODUCER GAS PLANT – 27,000 NM<sup>3</sup>/HR HELD ON DATED 24.05.2022 (10.00AM) AT FOOTBALL PLAY GROUND, BAD PURNAPANI VILLAGE, BLOCK-LAHUNIPARA, OFSUNDARGARH DIST. (ODISHA)


| Sl. No. | Issues raised by Public  | Comments of the Project Authority   |
|---------|--|---|
| 1       | <b>Environment:</b> <ul style="list-style-type: none"> <li>Air &amp; Water pollution control.</li> <li>Control of dust Pollution in the locality due to transportation.</li> <li>Fruit bearing trees Plantation in vacant government land.</li> <li>Damage of agricultural land due to establishment of industry.</li> <li>Generation of Toxic gases like Ethane, Methane etc which will leads to global warming.</li> </ul> | <ul style="list-style-type: none"> <li>Company will provide adequate air pollution control measures like ESP, Bag filters and other dust suppression system. Company will also provide waste water treatment system to control water pollution.</li> <li>Company will provide water sprinkling system mobile water tankers in transporting road and dust suppression system as well as inside the plant premises to control dust pollution.</li> <li>Company will carried out plantation in co-ordination with Forest Department, &amp; road development authority, Govt. of Odisha.</li> </ul> |
| 2.      | <b>Employment:</b> <ul style="list-style-type: none"> <li>Priority on employment to local tribal people in the company on priority basis and employment to local educated youth as per their qualifications.</li> </ul>  | <ul style="list-style-type: none"> <li>Employment opportunity will be there as per the skill and qualification. Local public will be given priority for employment.</li> </ul>  |
| 3.      | <b>Peripheral Development</b>  |   |
|         | <b>a) Education:</b><br>Emphasize on tribal people education and development of school infrastructure.   | Company will support for financial assistance to the school for infrastructure development and assistance for qualified teacher deployment in the school to be made as per recommendation of school & village committee.  |
|         | <b>b) Road Development:</b><br>Connecting road improvement from Tikayatpali to Kapanda village main plant gate.  | Company will take up the matter by pursuing the matter through Govt. of Odisha for the improvement on road condition and its maintenance.   |


|  |   |
|--|---|
| <p><b>c) Supply of drinking water facility</b><br/>Drinking water facility at nearby local villages</p>  | <p>Company will provide bore well with Syntax tank for drinking water facility as per requirement through CSR activities.</p>   |
| <p><b>d) Health and medical facility:</b></p> <ul style="list-style-type: none"> <li>➤ ESI Hospital in Bonai area.</li> <li>➤ Free ambulance facility</li> </ul> | <p>Company will provide ambulance for the emergency medical treatment and. Regular health camp for the nearby village will be conducted by Company authority.</p>             |
| <p><b>e) Electrification of street lights:</b></p>   | <p>Electrification as well as renovation work will be conducted by company as per requirement through village committee. Wherever possible, solar light will be provided.</p> |
| <p><b>f) Club House</b></p>  | <p>Company will construct club house in the local villages as per requirement &amp; consultation with village committee.</p>  |
| <p><b>g) Compensation to land losers</b></p>   |   |
| <p><b>h) Financial assistance for local Cultural events</b></p>  | <p>Company will provide financial assistance to village committee for the cultural &amp; social activity.</p>   |
| <p><b>i) Facility for the displaced family (R&amp;R)</b></p>   | <p>The mland has provided by IDCO, Gvt of Odisha and in propose project there will not be any families for displacement.</p>  |
| <p><b>j) Road condition improvement</b></p>  | <p>Necessary repair and revamping of connecting road would be taken up as per the consultation of Govt. Department.</p>   |

KAI INTERNATIONAL PVT. LTD.

Director,  
M/s KAI International (P) Ltd.,

Shri SURESH Agrawal

  
Regional Officer  
Odisha S.P.C.B., Rourkela


  
Sub-Collector  
Bonai, Dist.: Sundargarh, Odisha  
**SUB-COLLECTOR**  
**BONAI**

ମେସର୍ସ କାଇ ଇଣ୍ଡରନେସନାଲ ପ୍ରାଇଭେଟ ଲିମିଟେଡ଼ର କପଣ ଗ୍ରାମରେ ୧.୫ ଏକଡିଏଏ କ୍ଷମତା ବିଶିଷ୍ଟ ଆଇରନ ଓ ବେନିଫିକେଶନ ପ୍ରକଳ୍ପ ଥ୍ରୋପୁଟ (୧.୧୬ ଏକଡିଏଏ ଉଚ୍ଚମାନ ଯୁକ୍ତ ଓର୍), ୧.୨ ଏକଡିଏଏ କ୍ଷମତା ବିଶିଷ୍ଟ ଆଇରନ ଓର ପେଲେଟାଇଜେଶନ ପ୍ରସ୍ତାବିତ ପ୍ରକଳ୍ପ ର ଜନ ପରାମର୍ଶ (ଶୁଣାଣି) ର କାର୍ଯ୍ୟନିର୍ବାହୀ ସାରାଂଶ ।

ସ୍ଥାନ: ସୁନ୍ଦରଗଡ଼ ଜିଲ୍ଲା ଲକ୍ଷ୍ମଣୀପଡ଼ା ବ୍ଲକ ଅନ୍ତର୍ଗତ ବଡ଼ପୁରୁଣାପାଣି ଗ୍ରାମର ପୁଟବଲ ଖେଳପଡ଼ିଆ ।

ତାରିଖ: ୨୪-୦୫-୨୦୨୨ (ଦିବା ୧୦:୩୦ଘଟିକା) ।

| ସଂଖ୍ୟା | ଜନସାଧାରଣଙ୍କ ଦ୍ଵାରା ଉଠାଯାଇଥିବା ପ୍ରସଙ୍ଗ ଗୁଡ଼ିକ  | ପ୍ରକଳ୍ପ ଅଧିକାରୀଙ୍କ ମତବ୍ୟ   |
|--------|---|--|
| ୧      | <p>ପରିବେଶ:</p> <ul style="list-style-type: none"> <li>➤ ବାୟୁଏବଂ ଜଳପ୍ରଦୂଷଣ ।</li> <li>➤ ପରିବହନ ହେତୁ ସ୍ଥାନୀୟ ଅଞ୍ଚଳରେ ଧୂଳି ପ୍ରଦୂଷଣକୁ ନିୟନ୍ତ୍ରଣ କରନ୍ତୁ ।</li> <li>➤ ଖାଲି ସରକାରୀ ଜମିରେ ଫଳ ଉତ୍ପାଦନ କରୁଥିବା ବୃକ୍ଷରୋପଣ ।</li> <li>➤ ଶିଳ୍ପ ପ୍ରତିଷ୍ଠା ହେତୁ କୃଷି ଜମିର କ୍ଷତି ।</li> <li>➤ ଇଥେନ, ମିଥେନ ଇତ୍ୟାଦି ବିଷାକ୍ତ ଗ୍ୟାସର ଉତ୍ପାଦନ ଯାହା ଗ୍ଲୋବାଲ ୱାର୍ମିଂକୁ ବଢ଼ାଇଥାଏ ।</li> </ul> | <ul style="list-style-type: none"> <li>➤ କମ୍ପାନୀ ଇ.ଏସ.ପି, ବ୍ୟାଗଫିଲ୍ଡର ଏବଂ ଅନ୍ୟାନ୍ୟ ଧୂଳିବମନ ପ୍ରଣାଳୀ ପରି ପର୍ଯ୍ୟାପ୍ତ ବାୟୁପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ପଦକ୍ଷେପ ପ୍ରଦାନ କରିବ ।</li> <li>➤ ଜଳ ପ୍ରଦୂଷଣକୁ ନିୟନ୍ତ୍ରଣ କରିବା ପାଇଁ କମ୍ପାନୀ ବର୍ଜ୍ୟଜଳ ବିଶୋଧନ ବ୍ୟବସ୍ଥା ମଧ୍ୟ ଯୋଗାଇବ ।</li> <li>➤ ଜଳସିଞ୍ଚନ ପ୍ରଣାଳୀ କାରଖାନା ପରିସର ଭିତରେ ରହିବା ଆବଶ୍ୟକତା ଅନୁଯାୟୀ କମ୍ପାନୀ ଭ୍ରମଣଶୀଳ ଟ୍ୟାଙ୍କର ଦ୍ଵାରା ଜଳସିଞ୍ଚନ କରିବଏବଂଧୂଳି ନିୟନ୍ତ୍ରଣ ପ୍ରଣାଳୀ କମ୍ପାନୀ ପରିସର ଭିତରେ ରହିବ ।</li> <li>➤ ଜଙ୍ଗଲ ବିଭାଗ ଏବଂ ସଡ଼କବିକାଶ କର୍ତ୍ତୃପକ୍ଷ, ଓଡ଼ିଶା ସରକାରଙ୍କ ସହ ସମନ୍ୱୟରେ କମ୍ପାନୀ ବୃକ୍ଷରୋପଣ କରିବ ।</li> <li>➤ କମ୍ପାନୀ ଦ୍ଵାରା କୌଣସି ଚାଷ ଜମି କ୍ଷତି କରାଯିବ ନାହିଁ ।</li> </ul> |
| ୨      | <p>ରୋଜଗାର:</p> <p>ପ୍ରାଥମିକତା ଆଧାରରେ କମ୍ପାନୀରେ ସ୍ଥାନୀୟ ଆଦିବାସୀ ଲୋକଙ୍କୁ ନିଯୁକ୍ତି ଏବଂ ସେମାନଙ୍କ ଯୋଗ୍ୟତା</p>   | <ul style="list-style-type: none"> <li>➤ ଦକ୍ଷତା ଏବଂ ଯୋଗ୍ୟତା ଅନୁଯାୟୀ ନିଯୁକ୍ତିର ସୁଯୋଗ ରହିବ ।</li> <li>➤ ରୋଜଗାର ପାଇଁ ସ୍ଥାନୀୟ ଜନସାଧାରଣ କୁ ପ୍ରାଥମିକତା ଦିଆଯିବ ।</li> </ul>   |

  
**SUB-COLLECTOR**  
**BONAI**

|   |  |  |
|---|--|--|
|   | ଅନୁଯାୟୀ ସ୍ଥାନୀୟ ଶିକ୍ଷିତ ଯୁବକମାନଙ୍କୁ ନିଯୁକ୍ତି ଉପରେ ପ୍ରାଥମିକତା ।   |  |
| ୩ | ପାରିପାଶ୍ଚିକ ବିକାଶ:   |  |
|   | କ) ଶିକ୍ଷା:<br>ଆଦିବାସୀ ମାନଙ୍କ ଶିକ୍ଷା ଏବଂ ବିଦ୍ୟାଳୟର ଭିତ୍ତିଭୂମି ବିକାଶ ଉପରେ ଗୁରୁତ୍ୱ ଦିଆଯିବ ।                 | <p>➤ ଭିତ୍ତିଭୂମି ବିକାଶ ପାଇଁ ବିଦ୍ୟାଳୟକୁ ଆର୍ଥିକ ସହାୟତା ଏବଂ ବିଦ୍ୟାଳୟ ତଥା ଗ୍ରାମ କମିଟିର ସୁପାରିଶ ଅନୁଯାୟୀ ବିଦ୍ୟାଳୟରେ ଯୋଗ୍ୟ ଶିକ୍ଷକ ନିଯୋଜନ ପାଇଁ କମ୍ପାନୀ ସହାୟତା କରିବ ।</p> <p>➤ ବିଦ୍ୟାଳୟ ଏବଂ ଗ୍ରାମ କମିଟିର ସୁପାରିଶ ଅନୁଯାୟୀ କମ୍ପାନୀ ପୁସ୍ତକ, ଖାତା, କଲମ, ପେନ୍‌ସିଲ ଇତ୍ୟାଦି ଅଧ୍ୟୟନ ସାମଗ୍ରୀ ଯୋଗାଇବ ।</p> |
|   | ଖ) ରାସ୍ତାବିକାଶ:<br>ଟିକାୟତ ପାଲିରୁ କପଣ୍ଡ ଗାଁ ମୁଖ୍ୟ ପାଖ ଫାଟକ ପର୍ଯ୍ୟନ୍ତ ରାସ୍ତାର ଉନ୍ନତିକରଣ କରିବ ।             | ସଡ଼କ ଛିଡ଼ିର ଉନ୍ନତି ତଥା ଏହାର ରକ୍ଷଣାବେକ୍ଷଣ ପାଇଁ କମ୍ପାନୀ ଓଡ଼ିଶା ସରକାରଙ୍କ ଦ୍ୱାରା ଏହି ମାମଲା ଅନୁସରଣ କରିବ ।   |
|   | ଗ) ପାନୀୟ ଜଳ ସୁବିଧା ଯୋଗାଣ :<br>ନିକଟସ୍ଥ ଗ୍ରାମ ଗୁଡ଼ିକରେ ପାନୀୟଜଳ ସୁବିଧା ।                                    | ସି.ଏସ୍.ଆର କାର୍ଯ୍ୟକଳାପ ମାଧ୍ୟମରେ ଆବଶ୍ୟକତା ଅନୁଯାୟୀ ପାନୀୟଜଳ ସୁବିଧା ପାଇଁ କମ୍ପାନୀ ସିଝାକ୍ଷୁଟ୍ୟାକ ସହିତ ଗଭୀର ନଳକୂଅ ଯୋଗାଇବ ।   |
|   | ଘ) ସ୍ୱାସ୍ଥ୍ୟ ଏବଂ ଚିକିତ୍ସା ସୁବିଧା:<br>• ବଣାଇ ଅଞ୍ଚଳରେ ଇ.ଏସ୍.ଆଇ ଡାକ୍ତରଖାନା ।<br>• ମାଗଣା ଆମ୍ବୁଲାନ୍ସ ସୁବିଧା । | ଜରୁରୀ କାଳୀନ ଚିକିତ୍ସା ପାଇଁ କମ୍ପାନୀ ଆମ୍ବୁଲାନ୍ସ ଯୋଗାଇବ ଏବଂ ନିକଟଗ୍ରାମ ପାଇଁ ନିୟମିତ ସ୍ୱାସ୍ଥ୍ୟ ଶିବିର ସି.ଏସ୍.ଆର ସ୍କିମ୍ ଅଧୀନରେ କମ୍ପାନୀ କର୍ତ୍ତୃପକ୍ଷଙ୍କ ଦ୍ୱାରା ପରିଚାଳିତ ହେବ ।   |
|   | ଙ) ଶୁଣି ଲାଭ ବ୍ୟବସ୍ଥା ସହ ବିଦ୍ୟୁତ୍‌କରଣ ।   | ଗ୍ରାମ କମିଟି ମାଧ୍ୟମରେ ଆବଶ୍ୟକତା ଅନୁଯାୟୀ ବିଦ୍ୟୁତ୍‌କରଣ ଏବଂ ନବୀକରଣ କାର୍ଯ୍ୟ କମ୍ପାନୀ ଦ୍ୱାରା ପରିଚାଳିତ ହେବ । ଯେଉଁଠାରେ ସମ୍ଭବ, ସୌର ଚାଳିତ ଆଲୋକ ଯୋଗାଇ ଦିଆଯିବ ।  |
|   | ଚ) କୁର୍ ଘର ନିର୍ମାଣ ।   | ସି.ଏସ୍.ଆର ସ୍କୀମ ଯୋଜନା ଅନୁଯାୟୀ ଗ୍ରାମ କମିଟି ସହିତ ପ୍ରାମାଣ୍ୟ କରିବା ପରେ ଆବଶ୍ୟକତା ଅନୁଯାୟୀ କମ୍ପାନୀ ସ୍ଥାନୀୟ ଗ୍ରାମଗୁଡ଼ିକରେ କୁର୍ ଘର ନିର୍ମାଣ ।  |
|   | ଛ) ସ୍ଥାନୀୟ ସାଂସ୍କୃତିକ କାର୍ଯ୍ୟକ୍ରମ  | ସାଂସ୍କୃତିକ ତଥା ସାମାଜିକ କାର୍ଯ୍ୟକଳାପ ପାଇଁ କମ୍ପାନୀ  |

|                                   |  |
|-----------------------------------|--|
| ପାଇଁ ଆର୍ଥିକ ସହାୟତା ।              | ଗ୍ରାମ ଜମିଟିକୁ ଆର୍ଥିକ ସହାୟତା ପ୍ରଦାନ କରିବ ।  |
| କ) ବିସ୍ତାପିତ ପରିବାର ପାଇଁ ସୁବିଧା । | ଇ.ଡି.କୋ, ଓଡ଼ିଶା ସରକାର ଦ୍ୱାରା ଏହି ଜମି ଯୋଗାଇ ଦିଆଯାଇଛି ଏବଂ ପ୍ରସ୍ତାବିତ ପ୍ରୋଜେକ୍ଟରେ କୌଣସି ପରିବାର ବିସ୍ତାପିତ ହେଉ ନାହାନ୍ତି । |
| ଝ) ସତକ ସ୍ଥିତିର ଉନ୍ନତି ।           | ସରକାରୀ ବିଭାଗ ର ପରାମର୍ଶ ଅନୁଯାୟୀ ସଂଯୋଗ ରାସ୍ତାର ଆବଶ୍ୟକ ମରାମତି ଏବଂ ନବୀକରଣ କାର୍ଯ୍ୟ ଗ୍ରହଣ କରାଯିବ ।                         |

KAI INTERNATIONAL PVT. LTD.

*[Handwritten Signature]*  
DIRECTOR

ନିର୍ଦ୍ଦେଶକ

କାଇ ଇଣ୍ଟରନେସନାଲ ପ୍ରାଇଭେଟ ଲିମିଟେଡ୍  
*San Subash Agarwal*

*ଶ୍ରୀ କମଳାକାନ୍ତ ମାତୃ ମାତୃ*  
ଆଞ୍ଚଳିକ ଅଧିକାରୀ,  
ଓଡ଼ିଶା ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ୍,  
ରାଉରକେଲା

*[Handwritten Signature]*  
ଉପ-ଜିଲ୍ଲାପାଳ, ବଣେଇ,  
ଜିଲ୍ଲା: ସୁନ୍ଦରଗଡ଼, ଓଡ଼ିଶା  
SUB-COLLECTOR  
BONAI

CAD-267



# STATE POLLUTION CONTROL BOARD, ODISHA

(Department of Forest, Environment & Climate Change, Govt. of Odisha)  
Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar-751012



No. 6679/

IND-II-PH-1017

Date : 19.04.2022

## NOTICE

It is brought to the notice of all concerned that M/s KAI International Pvt. Ltd. has proposed to have Environmental Assessment for Greenfield Project for installation of Iron Ore Beneficiation Plant -1.5 MTPA throughput (1.16 MTPA High Grade Ore), Iron Ore Pelletization Plant - 1.2 MTPA and Producer Gas Plant 27,000 Nm<sup>3</sup>/hr at village Kapanda under Lahunipara Tehsil of Sundargarh District to obtain Environmental Clearance from Ministry of Environment, Forest and Climate Change, Govt. of India. The proponent has applied to the State Pollution Control Board, Odisha, Bhubaneswar for a Public Hearing.

By virtue of Ministry of Environment, Forests & Climate Change, Government of India Notification No. S.O. 1533 (E) Dt. 14.09.2006, the Board has been authorized to conduct environmental public hearing and as such invites suggestions, views, comments and objections on matters relating to environmental aspects of the proposed project from all the persons including bonafide residents, environmental groups and others located at the proposed site/site of displacement/sites likely to be affected.

For the above purpose, a person will only mean:

- A. Any person who is likely to be affected by the grant of Environmental Clearance.
- B. Any person who owns his control over the project with respect to which an application has been submitted for environmental clearance.
- C. Any association of persons whether incorporated or likely to be affected by the project and / or functioning in the field of environment.
- D. Any local authority within any part of whose local limits is within the neighborhood, wherein the project is proposed to be located.

Persons as above who desire to submit their views, comments, objections etc. relevant to the project, may do so in writing within 30 days from the date of publication of this notice addressing the same to the Member Secretary, State Pollution Control Board, Odisha through Registered Post Besides this persons interested to submit their views relevant to the proposed project in writing or orally may also do so during the public hearing rescheduled to be conducted on 24.05.2022 at 10:00 AM Football Ground, Bad Purunapara Village, Sundargarh District. Public hearing shall be conducted strictly in accordance with the guidelines contained in COVID-19 pandemic restrictions issued by MoEF, C, Govt. of India vide OM No. 22-19/2019 dated 09.06.2020 (as varies Govt. of Odisha).

Persons desirous of participating in the public hearing may go through the Environmental Impact Assessment (EIA) Environmental Management Plan (EMP) of the said project which will be available at the following offices. A copy of the Executive Summary both in English & Odia is also available at the following offices & the same can also be downloaded from the website [www.spccb.org](http://www.spccb.org) free of cost.

1. District Collector's Office, Sundargarh.
  2. District Industries Center, Sundargarh.
  3. In the office of the Chief Executive Officer, Zilla Parishad, Sundargarh.
  4. In the Head Office of the State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar-751012.
  5. Regional office, State Pollution Control Board, Odisha, Gadckela.
  6. Department of Forest & Environment, Govt. of Odisha, Bhubaneswar.
- For any further clarification in this regard, the Regional Officer, State Pollution Control Board, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar may be contacted.

Sd/  
MEMBER SECRETARY

OPR - 08012/11/0035/22-23

The Times of India dt. 22.4.22 P.Y

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S.P.C. Board

A/118, Nilakantha Nagar,  
Unit-VIII, Bhubaneswar - 751012



