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PROCEEDINGS OF PUBLIC CONSULTATION (HEARING) OF SANINDAPUR IRON ORE MINES OF M/S RUNGTA SONS PVT. LTD., HELD ON DTD.09-11-2021 (1.30 PM) AT OPEN GROUND NEAR HANUMAN TEMPLE IN ORAGHAT VILLAGE UNDER KOIRA BLOCK OF SUNDARGARH DIST. (ODISHA)

The public hearing meeting for Sanindapur Iron Ore Mines of M/s Rungta Sons Pvt. Ltd., (over an area of 147.10 Ha.) was conducted on dtd. 10.11.2021 at 1.30 P.M. at open Ground near Hanuman Temple in Oraghat Village Under Koira Block in the District of Sundargarh. Sri Biswajit Mohapatra, Additional District Magistrate, of Sundargarh 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 associating with District Administration.

The Public hearing in respect of the above mining was held as per the scheduled 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 100 nos. of persons attended the public hearing meeting and Fifty Seven (57) Nos. of persons have signed in attendance sheet. Fourty Four (44) nos. of persons had delivered their views whose list and their signature is given on **ANNEXURE-II**.

Sri Biswajit Mohapatra, Additional District Magistrate, Sundargarh 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 also those who wants may give their written statement about the proposed projects. He had also reminded / request the public to follow the COVID-19 guidelines on wearing the mask and on maintaining the social distance issued that has been issued by the Govt. during Public hearing.

After that Additional District Magistrate, Sundargarh had invited the representative of project proponent of Sanindapur Iron ore mines of M/s Rungta Sons Pvt. Ltd., and Sri Sanjaya Kumar Acharya, Deputy General Manager (Personnel) had briefed about the proposed mining activities for production of iron ore mines, 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 etc. to be carried out during the course of mining.

## EXECUTIVE SUMMARY FOR PUBLIC HEARING

### 1 Introduction:

#### BackGround:

- Sanindpur Iron & Bauxite Mine of M/s Rungta Sons (P)Ltd. Is one of the oldest mine in the Bonai Sector in Sundargarh Distt. of Odisha. The mine is in operations since 1985. The company has its corporate office at Chaibasa, District Singhbhum(W), Jharkhand state, deals with mining, marketing of Iron and Manganese ore. It has a mine lease area of 147.10 ha. The mine caters to the needs of captive sponge iron plants as well as indigenous sponge iron plants, pig iron plants and also exports fines to China & other countries.
- The mining lease was granted in favour of the lessee and executed for 20 years w.e.f. 06/09/1985 to 05/09/2005. In pursuance to section 8-A(6) of MMDR Amendment Act, 2015, the mining lease period has been extended up to 05.09.2035 by execution of a Supplementary Lease Deed on 14.07.2016, over an area of 147.100 hectare.
- Approval of modification of review of Mining Plan with progressive mine closure plan for the proposed production has been approved by the Indian Bureau of Mines vide letter no. MRMP/A/56-ORI/BHU/2020-21/54 dt. 09.04.2021.
- Environmental Clearance has been granted to the existing project by MoEF & CC vide letter No. J-11015/107/2018-IA.II (M) dated 11.09. 2019 for production of 8.06 million tonnes of Iron ore which includes 7.0 million tonnes of ROM Iron ore from mines excavation & 1.06 million tonnes of low grade Iron ore/mineral reject from old dumps including wet beneficiation plant of throughput capacity of 1.44 MTPA granted earlier.
- The consent to operate for discharge of effluents under Water (Prevention and Control of Pollution) Act 1974 and emission under Air (Prevention and Control of Pollution) Act 1981 are being obtained regularly. Present consent to operate was received on 13.03.2020 and valid up to 31.03.2025.  
Total lease area of Sanindpur Iron and Bauxite Mine is 147.10 Ha, out of which 126.324 Ha is forest land and 20.776 Ha is non-forest land.  
The Stage-II forest clearance has been obtained in three phases;  
-In first phase, 52.742 Ha forest land has been granted FC vide letter No. 8-135/2003-Fe dated 19.06.2006.  
-In second phase, 15.393 ha forest land has been granted FC vide letter No. 8-135/2003- FC (vol.) dated 24.10.2013.

-In the 3<sup>rd</sup> phase, the balance 58.189 ha forest land has been accorded Stage-II forest clearance vide letter No.8-135/2003-FC (VOI.I)dated26.11.2020.

- PP has been submitting six monthly compliance report of the EC granted vide F.No.J-11015/107/2018-IA.II (M), dated 11.09.2019 on regular basis. The latest EC compliance is submitted to the ERO, Bhubaneswar on28.05.2021 for the six monthly periods from October, 2020-March, 2021.The Regional Office of the MoEF & CC monitors the compliance at field from time to time. PP has requested the Regional Office of the MoEF, Bhubaneswar for issuance of certified compliancereport.
- One Complaint Case bearing 2(C) C Case No.54/2013 has been filed in the court of SDJM, Bonai, Sundargarh, U/s.Sec.15 of the Environment (Protection) Act, 1986.The said case has been stayed on28.01.2014 by the Hon'ble High Court of Orissa in CRLMP NO. 38/2014 in Misc. Case No. 20/2014. The matter is presently sub-judice before the Hon'ble Court.
- The Project Proponent wishes to enhance the production of ROM iron ore from 7.0million TPA to 15.0 million TPA, low grade ore from 1.06 million TPA to 1.5 million TPA from old stacks/dumps. Total excavation of material shall be 19.3 million TPA (15million TPA ROM+1.5 million TPA low grade iron ore+2.8 million TPA waste], in Sanindpur Iron and Bauxite Mine in villages Sanindpur & Oraghat, district Sundargarh, Odisha of M/s Rungta Sons Pvt.Ltd.
- Form-I and Pre-Feasibility Report for enhancement of production was submitted on 22.04.2021totheMinistry'sonline portal.
- Reply to ed S generated on 31/05/2021 uploaded on ministry's portal on 04/06/2021.The presentation before the EAC was given through VC on 14/06/2021 and TOR granted vide Letter no. J-11015/37/2021-IA.II (M) dated 02.07.2021.
- At present, the production of the mine is obtained from excavation of Iron ore(ROM) and dry screening & crushing of iron ore for different grade and size of ore.Low grade ore from old stacks & dumps within mine lease area is also screened andcrushed to obtain different iron ore of different size and grade. The low grade oreproduced from the dry screening and crushing process is sold directly to the marketas per buyer's requirement. The balance portion of low grade iron ore will also be upgraded through wet beneficiation unit. There is no production of Bauxite at present and also not proposed in future. During 2020-21 total production of Iron ore was 5.78Million Tonnes (ROM +Dump working). 1<sup>st</sup>phase of wet beneficiation plant (0.72 Million TPA) is under operation since October, 2017. The construction of 2<sup>nd</sup> phase is under process.

- Preparation of EIA/EMP involves generating baseline data and environmental impact assessment. M/sRungta Sons(P)Ltd.(RSPL)engaged M/s Ecomen Laboratories Pvt. Ltd. for conducting necessary monitoring & studies & preparation of EMP report. Accordingly **M/s. Ecomen Laboratories Pvt. Ltd.** carried out the field studies for ambient air quality, water quality, noise level, soil quality, survey for flora & fauna, socio-economic aspects etc. during March to May, 2021, compiled secondary data from various sources, which forms the basis of preparation of EIA/EMP report based on TOR.

**Project Description:**

- ❖ The Sanindpur Iron & Bauxite Mine is located in the Bonai mining sector of District- Sundargarh, Odisha State.
- ❖ The distances of some important places are, Barbil-3km ,Koira-09km and Sundargarh-205km.
- ❖ The highest and lowest contours are 666 m and 621m respectively.
- ❖ Sanindpur Iron & Bauxite Mine forms a part of Precambrian Iron Ore series grouped under Iron Ore Group of Upper Dharwarage, in Singhbhum-Keonjhar-Bonai area.
- ❖ Total minable reserves are *72.55 Million Tones (Another 6.6 million tonnes of low grade iron ore is available as old dumps/stacks). Expected life of mine is 5 years from 2021-22. Due to on going exploration the life of the mine will increase.*
- ❖ The ore is of high-grade variety the iron content varies from 45% to 65%.
- ❖ Open cast mechanized method of mining is adopted by deploying blast hole drill for OB removal, excavator and dumper combination for both OB and Ore.
- ❖ The mining method of Sanindpur Iron & Bauxite mine for Total handling of 16.5million TPA [maximum excavation shall be 19.3million TPA (15million TPA ROM+ 1.5million TPA low grade iron ore+2.8million TPA waste] Iron ore will be fully mechanized. The existing in-pit crushing & screening of iron ore will continue.
- ❖ The production will be achieved by developing the benches of 6-9 m height with width up to 12 to 20 m. The production of sub-grade ore will be tentatively 10% with grade having 45% to 58% Fe Content.
- ❖ Within the mine both iron ore and waste materials will be excavated and transported through excavators of 3.2m<sup>3</sup> / 3.9m<sup>3</sup> / 4.2m<sup>3</sup> capacity with dumpers of up to 40 tonnes capacity respectively.
- ❖ 2.1m<sup>3</sup> excavators will be used for feeding ROM Iron Ore to mobile crusher/screen plant/wet beneficiation plants. Loaders of capacity up to 3.5m<sup>3</sup> will be used for loading of ore to dumpers.

- ❖ For transport of processed Ore to temporary stacks within the mine, dumpers will be used.
- ❖ During the modified mining Scheme period from 2020-21 to 2024-25, the production will be achieved from C-Top Quarry and also from the fresh area for which the lessee has already obtained the forest clearance.

**Description of the Environment:**

**Period of base line Study (March 2021–May2021):**

Meteorological data was recorded hourly for Three months. Calm condition prevailed over 6.30 % of the time of the study period. The predominant wind direction was NNW over 10.0% of the time in which speed of 0.27 to 5.28 m/s was recorded. The next predominant direction was N over 8.5% of the time in which speed of 0.27 to 5.28m/s.

**Meteorological study:**

Sr. No.	Month	Parameter				
		Temperature(°C)		Humidity(%)		Rain fall
		Max.	Min.	Max.	Min.	mm
1	March,21	40.37	18.05	99.90	10.30	2.20
2	April,21	42.57	19.38	95.60	9.80	13.8
3	May,21	43.17	21.87	93.65	11.40	38.0

**Ambient Air Quality:**

S.No.	Parameter Locations	PM <sub>10</sub> (µg/m <sup>3</sup> )		PM <sub>2.5</sub> (µg/m <sup>3</sup> )		SO <sub>2</sub> (µg/m <sup>3</sup> )		NO <sub>2</sub> (µg/m <sup>3</sup> )	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	Mine Area(Within Lease)	86.15	70.71	54.00	40.20	19.86	12.75	32.87	20.60
2.	Office area(Within Lease)	83.00	68.18	52.50	35.50	16.92	12.21	27.24	19.10
3.	Badaindipur	81.12	54.52	53.18	41.02	13.93	10.10	21.88	15.80
4.	Sargigarh	82.16	65.70	53.60	38.57	16.45	11.10	26.80	18.50
5.	Gharburhani	79.60	64.80	49.08	34.50	13.94	11.30	27.40	17.19
6.	Sagasahi	70.70	55.50	47.08	28.70	15.16	10.20	28.20	18.10
7.	Deoghar	73.50	51.30	48.60	37.50	14.89	9.14	28.85	17.70
8.	Mandajorha	75.90	61.50	51.80	37.58	15.10	9.16	27.42	16.10

Out of 8 locations the maximum Respirable Particulate Matter (PM<sub>10</sub>) was found with in lease (Mining area) (86.15 µg/m<sup>3</sup>) & minimum value (51.30 µg/m<sup>3</sup>) was found in Deoghar village.

Out of 8 locations the maximum Respirable Particulate Matter (PM<sub>2.5</sub>) was found with in lease (Mining area)(54.00µg/m<sup>3</sup>) & minimum value(28.70µg/m<sup>3</sup>)was found in Sagasahi village.

Highest SO<sub>2</sub>(19.86 µg/m<sup>3</sup>) value was within lease (Mining area) and lowest SO<sub>2</sub>value(9.14µg/m<sup>3</sup>)in Deoghar.

Similarly highest NO<sub>2</sub>(32.87 µg/cu.m.) value was found in Mine Area(Within lease) and lowest NO<sub>2</sub>value(15.80µg/cu.m.) was recorded at BadaIndipur.

**Water Quality:**

The water quality monitoring was done at 7 locations with in 10km.radius area from the lease.

**Surface water:**

The water samples were from Suna Nadi (upstream,SW-1), SunaNadi (downstream,SW-2)and Thereai Nala (SW-3).

Code No.	pH	TDS (mg/l)	Chloride (mg/l)	Fluoride (mg/l)	Nitrate (mg/l)	Iron (mg/l)	Total Coliform(MPN /100ml)
SW-1	7.72	168.00	10.00	0.35	5.36	0.100	140
SW-2	7.64	201.00	12.00	0.30	7.11	0.130	166
SW-3	7.36	191.00	10.00	0.38	6.30	0.190	210
<b>DesirableLimits</b>							
IS:2 296 (Class C)	6.5-8.5	1500	600	1.50	50.00	50.00	5000

The result shows all the parameters are well within the prescribed limit of IS: 2296(ClassC).

**Ground Water:**

The water samples were from Borewell (with in Mine Lease, GW-1),Gopisahi Village(Hand Pump) (GW-2), Kolmong (Hand Pump) (GW-3) and Purheibahal (Hand Pump)(GW-4).

The result shows all the parameters are well with in the prescribed limit of IS:10500.

**Noise Level:**

StationCode		Noiselevelin dB(A)			
		Max.	Min.	Day(leq)	Night(leq)
<b>Ambient Noise Level (dBA)</b>					
N-1	Within lease area	65.23	57.10	63.20	60.20
N-2	Within lease area	68.42	57.20	65.20	61.20
N-3	Bada Indipur	58.50	41.20	55.00	43.20
N-4	Sargigarh	57.20	41.30	53.60	43.10
N-5	Gharburhani	55.20	42.30	51.23	43.62
N-6	Sagasahi	50.20	41.00	48.50	42.80
N-7	Deoghar	51.30	40.20	48.70	42.00
N-8	Mandajorha	52.63	41.53	50.40	43.56

**AmbientNoiseLevel:**

Ambient noise level Within Lease (N-1& N-2) were found to be 63.2 & 65.2 dB(A) in daytime and 60.20 & 61.20 dB(A) in night time respectively. All the values are well with in the prescribed limit of 75 and 70 dB(A)for industrial area in day and night time respectively .At Badaindpur (N-3), Sargigarh village(N-4), Gharburhani Village(N-5),Sagasahi village (N-6) ,Deoghar village(N-7) and Mandajorha village(N-8) the noise levels were also within the prescribed limit of 55 dB(A) &45 dB(A)for residential area in day and night time respectively.

### Demographic Features:

The summary of the demographic features based on Census 2011 is given in the Table.

Sl.	Details	No./%
1	Total population	83466
2	No. of Household	18969
3	Average family size	4.4
4	Average no. of household per village	903
5	Average population per village	3975
6	Sex ratio-females per thousand males	1005
7	Percent of male population to total population	49.88
8	Percent of female population to total population	50.12
9	Percent of SC population to the total population	7.21
10	Percent of ST population to the total population	73.6
11	Percent of literate population to the total population	47.58
12	Percent of Male literate population to the total population	28.54
13	Percent of Female literate population to the total population	19.04
14	Percent of main worker to the total population	24.33
15	Percent of marginal worker to the total population	14.17
16	Percent of non worker to the total population	61.5

### Flora & Fauna:

The survey has not indicated the presence of any rare, endangered or endemic species within the lease area. The lost vegetation can be reproduced elsewhere. The fauna reported in this area are not of any rare species and are all common migratory type.

### Land use:

Sl. No.	Category	Area in Ha	% of the Study Area
1	Fallow Land	8190.6	14.950
2	Dense Forest	30056.24	54.860
3	Scrub Land	10357.6	18.905
4	Built Up/Settlements	2812.52	5.134
5	Mining Area	3176.32	5.798
6	Water bodies	194.17	0.354
	<b>Total</b>	<b>54787.45</b>	<b>100.00</b>