

M/s. AXORA RESOURCES LIMITED	Proposed Expansion of Non-ferrous Metal extraction Plant (Lead – Both Primary & Secondary & Tin) at Sy No.: 151/1, 151/2, 151/3, 151/4, 147, 148 & 150 Routhusuramala village, Thottambedu mandal, Chittoor district, Andhra Pradesh	FORM 1
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Form-1

(I) BASIC INFORMATION

S. No.	Item	Detail
1.	Name of the projects/s	Proposed Expansion of Non-ferrous Metal Extraction Plant (Lead - both Primary & Secondary and Tin).
2.	S. No. in the schedule	3(a) - Metallurgical industries (ferrous & non-ferrous).
3.	Proposed capacity/ area /length/tonnage/ to/be handled/ command area/ lease area/ number of wells to be drilled	<p>1. Proposed expansion of existing secondary lead manufacturing unit from drained battery waste from 19350 TPA to 40,000 TPA along with By-products,</p> <ul style="list-style-type: none"> • Silver - 13 TPA • Gold - 0.03 TPA • Bismuth - 2.1 TPA • Tellurium - 1.1 TPA • PP Chips - 6.2 TPA <p>2. Proposed production of Primary lead Metal from Lead Ore Concentrate & lead from secondary lead recycling unit for production of 60,000 TPA Primary Lead.</p> <p style="text-align: center;">&</p> <p>By-Product viz: Sulphuric Acid -52,000 TPA Zinc Oxide- 15,000 TPA Copper Matte- 2600 TPA Silver - 60 TPA Gold – 0.2 TPA</p> <p>3. Proposed production of Primary Tin Metal from Tin Ore Concentrate for production of 3,200 TPA Tin.</p> <p>4. Captive power plant of 4 MW capacity based on Waste Heat Recovery Boiler utilising waste heat from Oxidation, Reduction & Fuming furnaces.</p>

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		Area: 20.6 Hectares (51.0 acres). Project Cost: Rs. 675 crores
4.	New/ Expansion/Modernization	Expansion
5.	Existing Capacity/ Area etc.	<ol style="list-style-type: none"> 1. Battery Breaking and Separation Unit – mainly consisting of crusher, conveyor systems, screens, tanks, pumps etc. 2. Rotary Furnaces – 2 nos., 20 tons capacity each 3. Refining pots and furnaces – 8 nos., 50 to 100 tons capacity 4. Electro-refining cell house – mainly consisting of cells, bus-bar systems, rectifier, electrolyte recirculating systems, etc. 5. Casting machines for anode, cathode and lead ingot casting. 6. Rotary furnace for anode slime treatment – 10 tons capacity 7. Oxygen plant – 25 tons capacity 8. Bag houses 9. Cyclones 10. Packed bed scrubbers 11. Various material handling equipment like cranes, forklifts, etc. 12. Electrical sub-station including transformer, panels, etc. <p>Land Area – 18.0 acres Main Product – Lead (19,350 TPA)</p>
6.	Category of Projects i.e. 'A' or 'B'	A
7.	Does it attract the general condition? If yes, please specify.	No
8.	Does it attract the specific condition? If yes, please specify.	No
9.	Location	Latitude: 13°46'0.57" N Longitude: 79°47'25.62" E
	Plot / survey / Khasra No.	Sy No.: 151/1, 151/2, 151/3 & 151/4, 147, 148 and 150
	Village	Routhusuramala
	Tehsil	Thottambedu mandal
	District	Chittoor
	State	Andhra Pradesh
10.	Nearest railway Station / airport along with distance in kms.	Srikalahasti Railway Station - 11 kms from the project site

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		Tirupati Airport – 40 kms from the project site
11.	Nearest Town, city, District Headquarters along with distance in kms.	Nearest Town – Srikalahasti – 15 kms from the project site District Headquarter – Chittoor – 120 kms from the project site
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	Routhusuramala Gram Panchayat
13.	Name of the applicant	M/s Axora Resources Limited
14.	Registered Address	1, A. J. C. Bose Road, 4 th Floor, Kolkata 700020
15.	Address for correspondence :	
	Name	Shri Vijyender Kedia
	Designation (Owner/Partner/CEO)	Managing Director
	Address	1, A. J. C. Bose Road, 4 th Floor,
	Pin Code	Kolkata-700 020
	E-mail	vijendra.kedia@axoraresources.com
	Telephone No.	+91 9711999692
	Fax No.	-
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	No alternative site was considered.
17.	Interlinked Projects	No
18.	Whether separate application of interlinked project has been submitted?	NA
19.	If yes, date of submission	NA
20.	If no, reason	NA
21.	Whether the proposal involves approval/clearance under: if yes, details of the same and their status to be given. (a) The Forest (conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The C.R.Z Notification, 1991?	No
22.	Whether there is any Government Order/Policy relevant/ relating to the site?	No
23.	Forest land involved (hectares)	No
24.	Whether there is any litigation pending against the project and/or land in which the projects is propose to be set up? (a) Name of the Court (b) Case No.	No

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	(c) Orders/ directions of the court, if any and its relevance with the proposed project.	
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* *Capacity corresponding to sectoral activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.)*

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(II) ACTIVITY

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies etc.)

S. No.	Information / Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	Yes	Land measuring 20.6 Hectares (51.0 acres).has been earmarked for the proposed expansion project. The land is generally flat and does not come under flood zone. It does not have any human settlement. The land is situated within the Industrial Park - Routhusurmala, Thottambedu Mandal, Chittoor. This project will be developed following a land use plan, which shall be made taking into consideration relevant guidelines / stipulations of the concerned Authorities. Moreover, the planning of the project, development of green belt and other landscape on the proposed site would be done to enhance the aesthetics of the area.
1.2	Clearance of existing land, vegetation and buildings?	Yes	Site clearing and preparation activities will involve removal of scanty vegetation as available on the plot. The proposed land has already been classified as an Industrial zone.
1.3	Creation of new land uses?	Yes	Proposed project will be developed following a well - designed land-use plan. A positive change in the land use due to the proposed project is expected.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Soil testing will be carried out as per requirement.
1.5	Construction works?	Yes	The civil works for the construction and development of the proposed project include earthwork excavation; construction of factory

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			sheds, storage sheds / godowns, utilities, internal roads & parking areas, etc.
1.6	Demolition works?	No	-
1.7	Temporary sites used for construction works or housing of construction workers?	No	Local contractors & workers will be engaged for the construction activity.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	Please refer Pre-feasibility Report.
1.9	Underground works including mining or tunneling?	No	-
1.10	Reclamation works?	No	-
1.11	Dredging?	No	-
1.12	Offshore structures?	No	-
1.13	Production and manufacturing processes?	Yes	Please refer Pre-feasibility Report.
1.14	Facilities for storage of goods or materials?	Yes	All construction materials will be handled through site store within the project boundary.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	Three types of solid waste disposal methods shall be followed: 1) Comprehensive use in plant Smelting dust, side-blowing furnace dust, dross reverberatory furnace, lead dross, anode slime, noble metal comprehensive recovery system reduction slag, and Bismuth oxide slag shall be comprehensively utilized in the plant. 2) Sell directly Zinc oxide from the fuming furnace, coal dust from the lead melting kettle, copper matte from the copper dross reverberatory and waste vanadium catalysts are general solid wastes. Water quenched slag from the fuming furnace and fly ash from the lead melting kettle are hazardous solid wastes. Waste vanadium catalysts shall be recovered by

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			<p>the manufacturer; the burned coal shall be sold out to make bricks for road pavement; copper matte are sold outside.</p> <p>3) Store</p> <p>Acidic wastewater treatment slag, and anode slime reduction smelting waste gas defluorination treatment slag are all hazardous wastes. The hazardous wastes will be stored in secured chambers. The storage vat will be properly secured, ventilated and enclosed with a capacity of 10 days storage for ultimate transfer to the collection vehicles of authorized waste handlers.</p> <p>Domestic wastewater will be treated in the Sewage Treatment Plant (STP).</p> <p>Process wastewater will be treated in an effluent treatment plant (ETP). Treated effluent meeting the relevant discharge standards will be reused.</p>
1.16	Facilities for long term housing of operational workers?	No	-
1.17	New road, rail or sea traffic during construction or operation?	No	<p>The State Highway No.61 runs at a distance of about 4.5 km (towards North) from the site.</p> <p>The site also has good rail, port and air connectivity.</p> <p>All these facilities will be used during construction and operation phases.</p>
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	-
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	-
1.20	New or diverted transmission	No	-

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	lines or pipelines?		
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	-
1.22	Stream crossings?	No	-
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Ground water drawn through bore wells (that would be installed within the plant premises) will be used as source of water.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	-
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	The plant location has proper road, rail and port linkages. These facilities will be used for transportation of materials, equipment and personnel during construction and operation phases.
1.26	Long-term dismantling or decommissioning or restoration works?	No	-
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	-
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Total man-power of around 1050 persons will be required for the proposed project in relation to activities of different units and sections. Direct Supervisory: 100 Direct Skilled: 250 Direct Semi & Unskilled:300 Indirect : 400
1.29	Introduction of alien species?	No	-
1.30	Loss of native species or genetic diversity?	No	-
1.31	Any other actions?	No	-

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2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

S. No.	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	Yes	Land measuring 20.6 Hectares (51.0 acres) has been earmarked for the proposed expansion project. The land is generally flat and does not come under flood zone. The land is situated within the Industrial Park - Routhusurmala, Thottambedu Mandal, Chittoor. It does not have any human settlement or agricultural activity.
2.2	Water (expected source & competing users) unit: KLD	Yes	Domestic Water Demand – 102 kld. Industrial Water Demand – 3368 kld Total – 3470 kld Source – Water demand shall be met from groundwater by installing borewells & Surface Water.
2.3	Minerals (MT)	No	-
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	Will be procured mostly from local sources.
2.5	Forests and timber (source – MT)	No	-
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Total power requirement of the proposed expansion project will be around 14 MW where 4 MW shall be sourced from Waste Heat Recovery system and the rest will be sourced from Southern Power Distribution Corporation.
2.7	Any other natural resources (use appropriate standard units)	No	-

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3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	Yes	Avg. 1,10,000 TPA of Molten Lead shall be processed
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	-
3.3	Affect the welfare of people e.g. by changing living conditions?	No	-
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	-
3.5	Any other causes	No	-

4. Production of solid wastes during construction or operation or decommissioning (MT/month)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	No	-
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Solid waste of domestic / commercial origin that would be generated in the Plant will be disposed off suitably in consultation with the concerned Civic body.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Handling, storage and disposal of Hazardous waste will be managed through the authorized waste recyclers of the State.
4.4	Other industrial process wastes	No	-

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4.5	Surplus product	No	-
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Domestic wastewater shall be treated in the Sewage Treatment Plant (STP). Sludge from ETP will be stored in a secured enclosure following HW storage protocol and ultimately disposed through the authorized waste recyclers of the State.
4.7	Construction or demolition wastes	Yes	Will be utilized to develop the land.
4.8	Redundant machinery or equipment	No	-
4.9	Contaminated soils or other materials	No	-
4.10	Agricultural wastes	No	-
4.11	Other solid wastes	No	-

5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	Furnace fuel, Liquid Oxygen will be used in the process & HSD will be used in DG sets. Emissions will be released to the atmosphere through stack as applicable & will be controlled as per relevant statutory requirement.
5.2	Emissions from production processes	No	-
5.3	Emissions from materials handling including storage or transport	No	-
5.4	Emissions from construction activities including plant and equipment	Yes	Fugitive Emissions.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Fugitive Emissions.
5.6	Emissions from incineration of waste	No	-
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	-
5.8	Emissions from any other sources	No	-

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6. Generation of Noise and Vibration, and Emissions of Light and Heat:

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Noise below the level of 75 dB(A) will be generated during operation of the proposed plant.
6.2	From industrial or similar processes	Yes	From fans, pumps, etc.
6.3	From construction or demolition	Yes	During construction, noise below the level of 85 dB(A) will be generated.
6.4	From blasting or piling	Yes	During piling noise level of the order of 85 dB(A) will be generated.
6.5	From construction or operational traffic	Yes	Due to vehicular movement, there will be slight increase in the ambient noise level.
6.6	From lighting or cooling systems	No	-
6.7	From any other sources	No	-

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	Handling, storage and use of hazardous material will be done following standard protocols for Hazardous chemicals.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	Domestic wastewater will be treated in a sewage treatment plant (STP). Treated effluent meeting the relevant discharge standards will be used in non-critical purposes like landscaping, automobile and truck cleaning, etc.

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7.3	By deposition of pollutants emitted to air into the land or into water	Yes	<p>Off gas SO₂ shall be passed through waste heat recovery boiler for power generation. After that the gas shall be passed through ETP and dust collected in ETP shall be sent back to furnace for recycling. The Off gas (SO₂) from ETP is passed through scrubber / Electric Demister/ Drying Tower/ Primary and Secondary Converter and absorber to produce Sulphuric Acid for selling in Market.</p> <p>Off gas from Fuming Furnace shall be passed through Waste Heat recovery boiler for Power Generation and Zinc oxide powder is collected bag filter for selling in the market.</p> <p>Off Gases from the Reduction furnace shall be passed through Waste Heat recovery boiler for Power Generation and bag filter where the dust so collected are send back to Oxidation furnace.</p> <p>All other sections of the plant shall be provided with bag filters or other suitable means to allow only gases adhering to the pollution control norms to pass through stacks of appropriate height.</p>
7.4	From any other sources	No	-
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	-

8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment

S. No.	Information/Checklist confirmation	Yes / No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous	Yes	Compliance to Safety Rules and Disaster Management Plan would be done.

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	substances		
8.2	From any other causes	No	-
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. Floods, earthquakes, landslides, cloudburst etc)?	No	The area falls under Earthquake Zone V as per Indian Standard Seismic Zoning Map.

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
9.1	Lead to development of supporting utilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other 	No	The project will have insignificant impact on the road network around the project site. The project is not expected to have any impact of concern on the power supply system, housing and wastes management system of the area.
9.2	Lead to after-use of the site, which could have an impact on the environment	No	-
9.3	Set a precedent for later developments	Yes	
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	-

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(III) ENVIRONMENTAL SENSITIVITY

S. No.	Areas	Name/Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Kambakam Reserve Forest	7.3 kms towards South of the project site
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	None	-
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Kambakam Reserve Forest	7.3 kms towards South of the project site
4	Inland, coastal, marine or underground waters	None	-
5	State, National boundaries	None	-
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	None	-
7	Defense installations	None	-
8	Densely populated or built-up area	• Srikalahasti	• 9 km from the project site

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9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	<ul style="list-style-type: none"> • Srikalahasti Government School • SVA Degree College • Sreekalahateeswara Institute of Technology • Srikalahasti Government Hospital • Ravi Nursing Home • BNK Hospital 	<ul style="list-style-type: none"> • 9.5 km from the project site • 9.1 km from the project site • 11 km from the project site • 8.2 km from the project site • 9.8 km from the project site • 10 km from the project site
10	Areas containing important, high quality or scarce resources (<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	None	-
11	Areas already subjected to pollution or environmental damage. (<i>those where existing legal environmental standards are exceeded</i>)	None	
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (<i>earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions</i>)	None	

(IV) Proposed Terms of Reference for EIA studies:

Refer Annexure-1.

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I do hereby give this undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and believe and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost.

Date: 12.01.2019

Place: Kolkata

**Vijyender Kedia
Managing Director**

Address:

M/s Axora Resources Limited

1, A. J. C. Bose Road, 4th Floor,
Kolkata 700020

Note:

1. The projects involving clearance under Coastal Regulation Zone Notification, 1991 shall submit with the application a C.R.Z map duly demarcated by one of the authorized agencies, showing the project activities, w.r.t. C.R.Z. (at the stage of TOR) and the recommendations of the State Coastal Zone Management Authority (at the stage of EC). Simultaneous action shall also be taken to obtain the requisite clearance under the provisions of the C.R.Z. Notification, 1991 for the activities to be located in the CRZ.
2. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon (at the stage of EC)."
3. All correspondence with the Ministry of Environment & Forests including submission of application for TOR/ Environmental Clearance, subsequent clarifications, as may be required from time to time, participation in the EAC Meeting on behalf of the project proponent shall be made by the authorized signatory only. The authorized signatory should also submit a document in support of his claim of being an authorized signatory for the specific project."