

APPENDIX I
(See Paragraph-6)
FORM 1

Note: If space provided against any parameter is inadequate, kindly upload supporting document under 'Additional Attachments if any' at the last part of the Form1. Please note that all such Annexures must be part of single pdf document.

(I) Basic Information:

S. No.	Item	Details														
1	Name of the Project	Installation of 2 x 9 MVA Submerged Arc Furnace (SAF) to make 35,176 TPA (maximum) Ferro Manganese / Silico Manganese / Ferro Chrome / Silico Chrome/ Ferro Silicon) and 2 x 4.5 MVA Electric Arc Furnace (EAF) to make 29,700 TPA Low Carbon Ferro Chrome by M/s. Hariaksh Industries Pvt. Ltd.														
2	Project Sector	Metallurgical Industry														
3	Location of the project (Outser coordinates)	<table border="1"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>23°28'35.77"N</td> <td>87°10'11.12"E</td> </tr> <tr> <td>23°28'35.35"N</td> <td>87°10'12.19"E</td> </tr> <tr> <td>23°28'32.65"N</td> <td>87°10'3.61"E</td> </tr> <tr> <td>23°28'28.88"N</td> <td>87°10'6.47"E</td> </tr> <tr> <td>23°28'27.96"N</td> <td>87°10'4.35"E</td> </tr> <tr> <td>23°28'28.21"N</td> <td>87°10'2.50"E</td> </tr> </tbody> </table> <p>Mouza-Chausal P.S Gangajalghati, District- Bankura, West Bengal.</p>	Latitude	Longitude	23°28'35.77"N	87°10'11.12"E	23°28'35.35"N	87°10'12.19"E	23°28'32.65"N	87°10'3.61"E	23°28'28.88"N	87°10'6.47"E	23°28'27.96"N	87°10'4.35"E	23°28'28.21"N	87°10'2.50"E
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4	Shape of the project land Uploaded GPS file Uploaded copy of survey of India Topo-sheet	Block : Polygon KML File Toposheet No.- 73M3 10 Km Map														
5	Brief summary of project	Annexure – Attached as Annexure														
6	State of the project	West Bengal														

Details of State of the project

S. No.	State Name	District Name	Tehsil
(1)	West Bengal	Bankura	Gangajalghati
7	Town/Village	Chausal	
8	Plot/Survey/Khasra No	Plot No: 1175,1176,1177,1179,1181,1182,1183,1184,1193,1446, 1447,1448,1449,1450,1451,1453,1446/2446,1193/2502,11 94/2500,1445/2588,1445/2589 & 1445/2590, 1180,1175,1184,1451,1185,1192/2501,1183,1145/2588 Khatian No : 826 JL No : 014	
9	S. No. in the schedule	3(a) Metallurgical Industry	
10	Proposed capacity/area/length/tonnage to be handled/command area/lease	Proposed Capacity: 35,176 MTPA Ferro Manganese / Silico Manganese / Ferro Chrome / Silico Chrome / Ferro Silicon through SAF	

	area/number or wells to be drilled	29,700 MTPA Low Carbon Ferro Chrome through EAF Total Capacity: 64,876 TPA Ferroalloys Area – 10.39 Acres (4.20 Hectare)
11	New/Expansion/Modernization	New
12	Category of project i.e. 'A' or 'B'	A (Primary metallurgical industry)
13	Does it attract the general condition? If yes, please specify	No
15	Does it attract the specific condition?	No
16	Is there any litigation pending against the project?	No
17	Nearest railway station along with distance in kms	Raniganj Railway Station at 15.7 Km towards NNE.
18	Nearest airport along with distance in kms	Durgapur Airport, 35 km away
19	Nearest Town/City/District Headquarters along with distance in kms	District Headquarter- Bankura 28.4 KM towards SE. Town – Durlavpur 4 KM towards West. City- Raniganj 19 KM towards NE.
20	Details of alternative sites examined shown on a topo-sheet	Alternative site not examined, because Borjora – Gangajalghati Development Authority has converted the landuse of the proposed site to Industrial.
21	Whether part of interlinked projects?	No
22	Whether the proposal involves approval/clearance under the Forest (Conservation) Act, 1980?	No
23	Whether the proposal involves approval/clearance under the wildlife (Protection) Act, 1972?	No
24	Whether the proposal involves approval/clearance under the C.R.Z notification, 2011?	No
25	Whether there is any Government Order/Policy relevant/relating to the site?	No
26	Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up?	No
27	Project Cost (in Lacs)	9256.23 Lacs

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
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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	The land has been already converted for Industrial use by the local Authority. Prior to CLU, the land was single crop agricultural land.
1.2	Clearance of existing land, vegetation and buildings?	Yes	Clearance of existing land is not required, as it is devoid of vegetation and buildings however some thorny bushes/grass will be removed.
1.3	Creation of new land uses?	No	Landuse already converted to Industrial.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Geophysical investigation, including In-situ testing, for the characterization of surface and sub-surface soil properties.
1.5	Construction works?	Yes	Construction/erection work to be taken up after getting environmental clearance.
1.6	Demolition works?	No	Not Required
1.7	Temporary sites used for construction works or housing of construction workers?	No	No temporary sites will be constructed for the housing of construction workers. Plenty of labours are present in Mejia and Durlavpur.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations and fill or excavations	Yes	Excavation for foundation for construction, structural work for the structural buildings. All the structure will be over ground.
1.9	Underground works including mining or tunneling?	No	No mining / tunnelling is involved.
1.10	Reclamation works?	No	Not required
1.11	Dredging?	No	Not required
1.12	Offshore structures?	No	Not required
1.13	Production and manufacturing processes?	Yes	Ferro Manganese / Silico Manganese / Ferro Chrome / Silico Chrome/ Ferro Silicon/Low Carbon Ferro Chrome
1.14	Facilities for storage of goods or materials?	Yes	Raw Material Yard & finished product shed shall be made
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	Solid Waste: Slag will be sent to TSDF site. It will be used for civil constructions only if it passes TCLP test. Bag filter dust will be recycled. Liquid Waste: Furnace cooling water will be recycled through cooling towers. Domestic wastewater will be treated in STP and used for greenbelt development. There will be no discharge outside plant premises
1.16	Facilities for long term housing of operational workers?	No	Workers will stay in nearby towns.

S. No.	Information/Checklist confirmation	Yes / No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.17	New road, rail or sea traffic during construction or operation?	No	Approach road to the site already exist.
1.18	New road, rail, air water borne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	No	Not Applicable
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Not applicable
1.20	New or diverted transmission lines or pipelines?	No	Not applicable
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	Not applicable
1.22	Stream crossings?	No	Not applicable
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Make up water requirement for the proposed project is estimated to be 87m ³ /day. Water requirement will be met through bore well.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	Yes	No water bodies exists in the land, however surface development will increase the runoff. Which will be suitably disposed into nearby nallas.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	The raw materials will be sourced from local market. These will be transported to the site by road through trucks. Workers will also travel by road.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not required
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not applicable
1.28	Influx of people to an area in either temporarily or permanently?	No	Trained people are available in the area.
1.29	Introduction of alien species?	No	Not applicable
1.30	Loss of native species or genetic diversity?	No	Not applicable
1.31	Any other actions?	No	Not applicable

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 has been procured as single crop agricultural land & conversion certificate from agriculture to industry use has been obtained.
2.2	Water (expected source & competing users) unit: KLD	Yes	The total water requirement for the proposed project is estimated to be 87m ³ /day. Water requirement for the proposed plant will be met through bore well.
2.3	Minerals (MT)	Yes	Manganese Ore, Chrome Ore, Lime, Dolomite, Quartzite, Coke and Coal
2.4	Construction material – stone, aggregates, sand /soil (expected source – MT)	Yes	Construction material (stone, aggregates, and/soil) required for the construction will be purchased from the local market.
2.5	Forests and timber (source – MT)	No	Not applicable
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Power requirement of the proposed plant would be around 32 MW, which will be sourced from the Damodar Valley Corporation. 2 x 250 kVA DG set will be installed to meet the energy requirement.
2.7	Any other natural resources (use appropriate standard units)	No	Not applicable

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	HSD required for DG Set shall be stand in 300 Litre drums (5 Nos.)
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Project activity is not likely to cause changes in occurrence of disease.
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Additional employment opportunities will be created by operation of the plant. This will be benefited by direct and indirect employment which would improve the living conditions of the people and also through socio economic measures taken up by the proponent.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.	No	No
3.5	Any other causes	No	Not applicable.

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	No mine or separation activity.
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 of suitably in consultation with the concerned Civic body.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Slag from Ferrochrome plant Used oil of equipment will be sold to registered recyclers.
4.4	Other industrial process wastes	Yes	Bag filter dust will be recycled
4.5	Surplus product	No	Nil.
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Sewage sludge will be used as soil conditioning.
4.7	Construction or demolition wastes	Yes	Construction waste like soil, brick bats, etc. will be utilized in levelling of land and construction of roads.
4.8	Redundant machinery or equipment	No	There will not be any redundant machinery or equipment.
4.9	Contaminated soils or other materials	No	There will be no contamination of soil or any other material
4.10	Agricultural wastes	No	No agricultural wastes will be generated.
4.11	Other solid wastes	No	There will be no other solid waste

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	Particulate matter and flue gases (SO _x , NO _x) will be collected using FES and treated in bag filters. It will be discharged using 30m tall stack.
5.2	Emissions from production processes	Yes	Particulate matter and hue gases (SO _x , NO _x) will be collected using FES and treated in bag filters. It will be discharged using 30m tall stack.
5.3	Emissions from materials handling including storage or transport	Yes	Water sprinklers and dry fogging system will be provided for suppression of dust will be installed at the raw material and production handling points.
5.4	Emissions from construction activities including plant and equipment	Yes	Working of construction equipment aided with fossil fuel (diesel) and transportation of construction material is likely to increase emission of Particulate Matters, SO _x and NO _x .
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	No	Not required.
5.6	Emissions from incineration of waste	No	Not envisaged
5.7	Emissions from burning of waste in open air (e.g. slash materials,	No	Not envisaged

S. No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
	construction debris)		
5.8	Emissions from any other sources	No	Not envisaged

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
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	In the plant, noise from operation of equipments will be generated. Noise level will be kept below the limit. Noise abatement measures will be taken and persons working close to machines will be provided with personal protective equipments viz. Ear plugs/Ear muffs etc. for further protection.
6.2	From industrial or similar processes	Yes	The noise generation from machinery will be low and limited as the entire process will be in a shed.
6.3	From construction or demolition	Yes	Noise will be generated during construction phase.
6.4	From blasting or piling	No	There will be some blasting & piling activity.
6.5	From construction or operational traffic	Yes	The noise generated from traffic will be of temporary nature.
6.6	From lighting or cooling systems	No	Not envisaged.
6.7	From any other sources	No	No other source envisaged.

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	No
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	Sewage will be treated and then only disposed on land for greenbelt development.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	Discharge will be kept as per prescribed limit.
7.4	From any other sources	No	Not applicable
7.5	Is there a risk of long term build-up of pollutants in the environment from these sources?	No	Not applicable

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 substances From any other causes	No	All safety rules as laid down by concerned Authorities will be complied.
8.2	From any other causes	No	Not envisaged.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	No such event is known to have occurred in the area. Area falls under Seismic Zone III.

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 facilities, 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	Not Applicable
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	No	-
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	-

(III) Environmental Sensitivity

S. No.	Areas	Name /Identity	Aerial Distance (within 10 km) proposed project location boundary
1	Areas protected under	No	

S. No.	Areas	Name /Identity	Aerial Distance (within 10 km) proposed project location boundary
	international conventions, national or local legislation for their ecological, landscape, cultural or other related value		
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Yes	Forests in 10 km Area: Gangajalghati Forest & Borjora Forest Water Courses in 10km area: Damodar River
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	Yes	There is no wildlife sanctuary or national park within 10km of the site. The forest department have reported presence of few elephants in Gangajalghati and Borjora Forests.
4	Inland, coastal, marine or underground waters	Yes	Damodar River and its tributaries are the inland water courses in 10km area.
5	State, National boundaries	No	---
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	---
7	Defence installations	No	---
8	Densely populated or built-up area	Yes	Name of the villages in all sides with distance 1- Chausal - 500 m North-West. 2 Durlavpur – 4.06 km towards - West
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	Kalimata Temple is 200 mtr towards South. Chausal Shiv Mandir is 600 mtr towards North-West. MTPS Hospital is 2.32 KM towards South-West. Chausal High School is 600 mtr towards North-West. Radhamadhabpur primary school is 1.07 Km towards South-West.
10	Areas containing important, high quality or scarce resources.(ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	No such area around the project site.
11	Areas already subjected to pollution or environmental damage (those where existing legal environmental standards are exceeded)	No	No such area around the site
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes,	No	No such area around the site.

S. No.	Areas	Name /Identity	Aerial Distance (within 10 km) proposed project location boundary
	subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects		

The data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, I any to the project will be at our risk and cost.

Date: _____

Place: _____

**Signature of the Applicant
With Name and Full Address
(Project Proponent/ Authorized Signatory)**

NOTE:

1. The Projects involving 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 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 be taken to obtain the requisite clearance under the provisions of 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 the comments of the Chief Wildlife Warden thereon (at the stage of EC).
3. All correspondence with the Ministry of Environment And Forests including the 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.
