



Project-Proposed 1600(2x800) MW Coal Based Ultra Super Critical Thermal Power Plant coming up at Villages Nitaipur, Salboni, Paschim Medinipur District, West Bengal.

Promoter- JSW Thermal Energy Limited (JSWTEL)

Form I

FORM - 1

**PROPOSED 1600 (2x800) MW COAL BASED ULTRA SUPER
CRITICAL THERMAL POWER PLANT COMING UP AT
VILLAGES NITAIPUR, SALBONI,
PASCHIM MEDINIPUR DISTRICT, WEST BENGAL.**

By

JSW THERMAL ENERGY LIMITED (JSWTEL)



Gaurang Environmental Solutions Pvt. Ltd.

Report Ref: GESPL_772/ 2025-26/ Draft EIA/131

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Rev No. 00

APPENDIX-I

(See Paragraph-6)

FORM - 1

I. Basic Information

S.No.	Item	Details
1.	Name of the Project/s	: Proposed 1600 (2x800) MW Coal Based Ultra Super Critical Thermal Power Plant coming up at Villages Nitaipur, Salboni, Paschim Medinipur District, West Bengal by JSW Thermal Energy Limited (JSWTEL).
2.	S. No. in the schedule	: Item no. 1(d) - Thermal Power Plants (> 500 MW - coal based) of the Schedule in the Environment Impact Assessment (EIA) Notification, 2006 and its subsequent amendments.
3.	Proposed capacity/ area/ length/ tonnage to be handled/ command area/ lease area/ number of wells to be drilled	: Proposed Power Generation Capacity: 2x800 MW (Ultra Super Critical) Total Area-724.38 Ha. Project Cost- Rs. 14070 crores.
4.	New/Expansion/Modernization	: New
5.	Existing capacity/area etc	: Not Applicable
6.	Category of project i.e. 'A' or 'B'	: Category 'A' of item 1(d) - Thermal Power Plants (> 500 MW - coal based) of the Schedule in the Environment Impact Assessment (EIA) Notification, 2006 and its subsequent amendments
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	
	Plot/Survey/Khasra no.	: Villages Nitaipur, Salboni, Paschim Medinipur District, West Bengal



	Village	:	Nitaipur, Salboni,
	Tehsil	:	--
	District	:	Nitaipur, Salboni,
	State	:	West Bengal
10.	Nearest Railway station/ Airport along with distance in kms.	:	As under: <ul style="list-style-type: none"> • JSW Block Cabin- Train Station ~ 0.1 Km towards EAST direction • Godapiasal Railway Station ~ 5.31 Km towards SSE direction
11.	Nearest Town, City, District Headquarters along with distance in kms.	:	Nearest Town : Salboni 6.72 KM NNE District Head Quarters: Paschim Medinipur-17 Km SSE
12.	Village Panchayat, Zilla Parishad, Municipal Corporation, Local body (Complete postal address with telephone no. to be given)	:	Gram Panchayat - Bankibandh & Kashijora Zila parishad - Paschim Medinipur Ph.no. 03222 275571
13.	Name of the applicant	:	JSW THERMAL ENERGY LIMITED
14.	Registered address	:	JSW CENTRE, BANDRA KURLA COMPLEX, Bandra (East), Mumbai
15.	Address for correspondence:		
	Name	:	Ashesh Kumar Padhy
	Designation (Owner/Partner/CEO)	:	Executive Vice President - Projects
	Address	:	Salboni
	Pin Code	:	721147
	E-mail	:	susanta.sahoo@jsw.in
	Telephone no.	:	9861065000
	Fax No.	:	-

16.	Details of alternative sites examined, if any. Location of these sites should be shown on a Toposheet.	:	<p>The project is proposed in an area of 724.38 Ha (1790 acres), which is already in the possession of JSWTEL. Three alternate site were examined for site selection of the proposed project i.e. Site 1 – Shushni Paschim Medinipur District, Site 2 – Jagannathpur Bankura district Site 3 – Salboni Paschim Medinipur District. Site 3, Salboni is the most suitable location for the proposed project due to its favorable topography, availability of land, minimum environmental and social impacts and superior connectivity, in contrast to the limitations identified at Sites 1 and 2.</p> <p>The detailed comparative analysis of these sites is attached as Annexure-I.</p>
17.	Interlinked projects	:	No
18.	Whether separate application of interlinked project has been submitted?	:	Not applicable
19.	If yes, date of submission	:	Not applicable
20.	If no, reason	:	There is no interlinked project.
21.	<p>Whether the proposal involves approval/ Clearance under: if yes, details of the same and their status to be given.</p> <p>a. The Forest (Conservation) Act, (1980)?</p> <p>b. The Wildlife (Protection) Act, 1972?</p> <p>c. The C.R.Z. Notification, 1991?</p>	:	No
22.	Whether there is any Government Order/ Policy relevant/ relating to the site	:	No

1.2	Clearance of existing land, vegetation and buildings?	No	<p>Land, Building and Vegetation:</p> <p>There is no clearance of existing land, vegetation.</p>																				
1.3	Creation of new land uses?	Yes	<p>The land is duly converted for industrial use. The internal land-use break-up (project) is given as under:</p> <table border="1"> <thead> <tr> <th>Particular</th> <th>Area (in Ha.)</th> </tr> </thead> <tbody> <tr> <td>Main Plant</td> <td>64.46</td> </tr> <tr> <td>Coal Storage and Handling</td> <td>133.61</td> </tr> <tr> <td>Switchyard</td> <td>19.8</td> </tr> <tr> <td>Greenbelt</td> <td>239.05</td> </tr> <tr> <td>Water System</td> <td>57.85</td> </tr> <tr> <td>Water Reservoir</td> <td>61.1</td> </tr> <tr> <td>Misc</td> <td>55.43</td> </tr> <tr> <td>Ash Disposal</td> <td>93.08</td> </tr> <tr> <td>Total</td> <td>724.38</td> </tr> </tbody> </table>	Particular	Area (in Ha.)	Main Plant	64.46	Coal Storage and Handling	133.61	Switchyard	19.8	Greenbelt	239.05	Water System	57.85	Water Reservoir	61.1	Misc	55.43	Ash Disposal	93.08	Total	724.38
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1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Detailed land survey, topographical survey, boreholes, soil testing has been carried out.																				
1.5	Construction works?	Yes	Construction works envisaged for proposed 2x800 MW units along with the associated facilities viz. Township and ash pond.																				
1.6	Demolition works?	No	No demolition works required.																				
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	<p>The temporary residents will be built for housing of construction workers. The details is given below:</p> <table border="1"> <thead> <tr> <th>Details</th> <th>Nos.</th> <th>Built up area</th> </tr> </thead> <tbody> <tr> <td>Workshops, sheds, site office, housing of construction workers etc.</td> <td>30</td> <td>5000 sq.m.</td> </tr> </tbody> </table>	Details	Nos.	Built up area	Workshops, sheds, site office, housing of construction workers etc.	30	5000 sq.m.														
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Workshops, sheds, site office, housing of construction workers etc.	30	5000 sq.m.																					
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	Yes	Earthwork for foundation & working shed construction.																				

1.9	Underground works including mining or tunnelling?	No	Not Applicable
1.10	Reclamation works?	No	Not Applicable
1.11	Dredging?	No	Not Applicable
1.12	Offshore structures?	No	Not Applicable
1.13	Production & manufacturing processes?	Yes	<p>Coal based power generation of 2x800 MW.</p> <p>Ultra Super Critical technology with enhanced steam parameters. The conversion from coal to electricity takes place in three stages:</p> <p>Stage 1</p> <p>The first conversion of energy takes place in the boiler. Coal is burnt in the boiler furnace to produce heat. Carbon in the coal and Oxygen in the air combine to produce Carbon Dioxide and heat.</p> <p>Stage 2</p> <p>The second stage is the thermodynamic process. The heat from combustion of the coal boils water in the boiler to produce steam. In modern power plant, boilers produce steam at a high pressure and temperature. The steam is then piped to a turbine. The high-pressure steam impinges and expands across a number of sets of blades in the turbine. The impulse and the thrust created rotates the turbine. The steam is then condensed and pumped back into the boiler to repeat the cycle.</p> <p>Stage 3</p> <p>In the third stage, rotation of the turbine rotates the generator rotor to produce electricity.</p>
1.14	Facilities for storage of goods or materials?	Yes	<p>Stockyard for storage of Coal, storage of cylinders for chlorine and hydrogen, tanks for LDO are proposed. Closed storage yard for chemicals, spare parts, equipment, tools, etc. are also involved.</p>



1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<ul style="list-style-type: none"> • A comprehensive Environmental Management Plan shall be formulated which shall include Effluent treatment plant and Sewage Treatment plant to suffice the requirement for treatment of liquid effluents and sewage generated. • Maximum 3.7 MTPA ash will be generated. 100% fly ash utilization will be done by selling fly ash to potential buyers for commercial purpose, cement plant, brick/block making, road making etc. • Unused ash shall be disposed in ash pond in slurry form which in future will be used for land filling and other purposes. • The municipal solid wastes generated from the colony will be converted to manure and used in gardening. Recyclable waste will be sold to recyclers. Inert waste will be sent to MSW Disposal sites for land fill. • Hazardous waste shall be disposed in accordance with Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016. 				
1.16	Facilities for long term housing of operational workers?	Yes	<p>A fully fledged township is envisaged for the permanent employees of the power plant. The details are given below:</p> <table border="1" data-bbox="719 1406 1433 1507"> <thead> <tr> <th data-bbox="719 1406 1074 1458">No of Housing units</th> <th data-bbox="1082 1406 1433 1458">Built up area</th> </tr> </thead> <tbody> <tr> <td data-bbox="719 1458 1074 1507">50</td> <td data-bbox="1082 1458 1433 1507">1394 sq.m.</td> </tr> </tbody> </table>	No of Housing units	Built up area	50	1394 sq.m.
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50	1394 sq.m.						
1.17	New road rail or sea traffic during construction or operation?	Yes	<p>No new road/ rail is required for the proposed unit. Existing infrastructure will be sufficient for the project. However; existing transport routes are adequate for the increase in traffic.</p>				
1.18	New road, rail, air waterborne or other transport infrastructure including new	Yes	<p>A new road of approximately 5.2 km length will be constructed to provide connectivity to the proposed thermal power project site. This road will facilitate</p>				

	or altered routes and stations, ports, airports etc?		transportation of construction materials, equipment, and later operational requirements.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Due to the project, there will be no closure or diversion of existing transport routes or infrastructures leading to changes in traffic movements.
1.20	New or diverted transmission lines or pipelines?	Yes	A new transmission line of approximately 35 km length will be laid for evacuation of power from the proposed thermal power project. Additionally, a new water pipeline of about 100 km length will be constructed for sourcing water required for the plant. No diversion of existing transmission lines or pipelines is proposed.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	The project will not involve any impoundment, damming, culverting or realignment or other changes to the hydrology of watercourses or aquifers.
1.22	Stream crossings?	No	None
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Ground water-No abstraction of ground water is envisaged. Surface water- The Water requirement for the proposed project is optimized as 36.50 MCM/Year to be met from Mukutmanipur Dam/ Rupnarayan River, Kolaghat, approximately 100 Km and 85 Km, respectively away from the site.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	There is no water body and natural drainage passing through the project area. Hence, there is no impact on water bodies or the land surface affecting drainage or run-off.
1.25	Transport of personnel or materials for construction,	No	The transportation of the material & goods for construction & operation will be done through roads in trucks. The

	operation or decommissioning?		foundation work & working shed construction along with installation of the new unit is required.
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	There will be no decommissioning activity related to the project.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	The proposed thermal power project will result in an influx of approximately 124 persons temporarily during the construction phase and about 260 persons permanently during the operation phase.
1.29	Introduction of alien species?	No	No alien species present/introduced due to the proposed project.
1.30	Loss of native species or genetic diversity?	No	There will be no loss of native species or genetic diversity due to proposed project.
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)	No	The total land requirement for proposed project is about 724.38 Ha, which is under possession of the company.
2.2	Water (expected source & competing users) unit: KLD	Yes	The Water requirement for the proposed project is optimized as 36.50 MCM/Year to be met from Mukutmanipur Dam/ Rupnarayan River, Kolaghat, approximately 100 Km and 85 Km, respectively away from the site.
2.3	Minerals (MT)	Yes	The details are given below:

S. No.	Material	Quantity	Unit	Source	Distance	Mode of transportation	Mode of Storage	
1.	Raw material / Fuel							
a.	Domestic Coal	8.58	Million MTPA	WB RFQ, B(IV) of SHAKTI under DBFOO model	150	Rail Wagons	Stock pile in Coal yard	
b.	LDO	2260	KL per annum	Nearby Refinery/ oil Depot	100	Road	Storage tanks	
2.	Chemical							
a.	Ammonia	6500	MTPA	Nearby Market	200	Road	Storage Tanks	
2.4	Construction material – stone, aggregates, sand/ soil (expected source – MT)			Yes	Cement, sand, aggregates and steel. (will be sourced from local market).The details are given below:			
	Construction material	Quantity in MT		Source	Mode of transport	Distance from source in Km		
	Steel	84000		Nearby Area	Road	100		
	Sand	520000		Nearby areas	Road	150		
	Aggregates	560000		Nearby areas	Road	10		
	Cement	160000		Nearby Cement plant	Road	100		
2.5	Forests and timber (source – MT)			No	Not envisaged			
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)			Yes	<p><u>Electrical Requirement</u> Electricity for construction purpose will be obtained from the nearby sub-station from the project site. Also DG sets during construction phase will be used as a backup arrangement. During operation phase. electricity required will be sourced from the generated power itself.</p> <p><u>Fuel requirement</u> Domestic Coal-8.58 Million TPA LDO-2260 KLPA</p>			

2.7	Any other natural resources (use appropriate standard units)	No	No other resource used.
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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	Ammonia will be stored and used during operation of proposed of power plant as per MSIHC Rules. Additionally, hazardous fuels as LDO will also be stored and handled at the proposed plant as per MSIHC Rules. Appropriate Risk Management plan has been prepared.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	No such change in occurrence of disease or disease vectors is anticipated from the proposed project
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Improvement in socio-economic condition of nearby villages is foreseen as a result of the project which includes: <ul style="list-style-type: none"> • Creating job opportunity to local people especially in unskilled category. • Creating/improving facilities for vocational training to local youth. Support to education facilities by providing assistance to meet requirements. • Providing safe drinking water wherever necessary.

			<ul style="list-style-type: none"> Providing medical assistance to local people. <p>A separate budget Rs. 81.85 crore @ 0.50% towards CER activities (as per Ministry's OM dated 01.05.2018) is allocated for Social EMP (CER) activities,</p>
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	No adverse impact anticipated
3.5	Any other causes	No	No other causes are anticipated.

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	Soil, overburden or mine wastes	No	Not Applicable
4.2	Municipal waste (domestic and or commercial wastes).	Yes	<p>Municipal solid waste (domestic) to the tune of 1 TPD will be collected, segregated at source itself using color coded bin collection system placed strategically in the plant premises.</p> <p>The organic component of MSW will be segregated and composted in Organic waste converters proposed at site. The remaining waste will be handed over to authorized vendors for recycle/reuse & disposal.</p>
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	<p>Hazardous waste will be generated from the proposed project which will be managed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Details as under:-</p>

S. No.	Waste type	Source	Quantity	Management & Disposal
I	Solid waste (Hazardous as per HoW Rules, 2016)			
1	Used / Spent Oil (Cat.)	Plant Operation	70 TPA	Registered Recyclers /Preprocessor with SPCB
2	Waste or residues containing oil (Cat.)	Plant Operation	10 TPA	Send to authorized recyclers
3	Empty Barrels/ containers/ liners contaminated with hazardous chemicals/ wastes (Cat.)	Plant Operation	10 TPA	Send to authorized recyclers
4	Spent oil Exchange resins containing toxic metals (Cat.)	Plant Operation	10 TPA	Captive incineration in boiler as per SOP issued by CPCB
III	MSW	Domestic activities	365 TPA	Inorganic will be disposed via local municipal authorized vendor & Organic/Biodegradable waste by OWC.
IV	Sludge (dry) from water treatment	CPU / ETP	10 TPA	TSDF
V	Sludge (dry) from STP	STP	2 TPA	Used as manure within plant premises
4.4	Other industrial process wastes.	Yes	Ash to the tune of 3.7 MTPA ash will be generated. 100% fly ash utilization will be done by selling fly ash to potential buyers for commercial purpose, cement plant, ready mix concrete, brick making, road making etc.	
4.5	Surplus product.	No	No surplus product is anticipated	
4.6	Sewage sludge or other sludge from effluent treatment.	No	None	
4.7	Construction or demolition wastes.	Yes	About 80,000 MT of construction waste is anticipated from construction phase of the project.	
4.8	Redundant machinery or equipment.	No	There will not be any redundant machinery or equipment at site.	
4.9	Contaminated soils or other materials.	No	Proper care will be taken to avoid contaminated soil and if oil spilled soil by spent oil generated from the DG Set will be found; the same will be scrapped off	

			and stored at earmarked places and sent to disposal sites.
4.10	Agricultural wastes.	Yes	Approx. 118 kg/day landscaping waste is being/will be generated from the project and will manage effectively.
4.11	Other solid wastes.	No	There will be no other solid waste generated from the project.

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	Combustion of coal for power generation shall result in emission of flue gases containing particulate SO ₂ , NO _x , CO ₂ and Hg. From vehicular movement, PM, NO and CO and CO ₂ will be additionally generated beside fugitive dust generation.
5.2	Emissions form production process.	Yes	<ul style="list-style-type: none"> • Particulate emission in flue gas from fossil fuel burning • Sulphur dioxide emission in flue from fossil fuel burning • NO_x emission in flue gas from fossil fuel burning • Coal dust particles during crushing, storage/handling of Coal • Dust in the ash generation & disposal area <p>Mitigation measures:</p> <ul style="list-style-type: none"> • The electrostatic precipitators (ESP) proposed for this project will be designed to limit the emission level of the particulate matter to < 30 mg/ Nm³.

			<ul style="list-style-type: none"> • One stack (chimney) of height 275 meters with bi flue has been proposed for effective dispersion. • To reduce NOx emissions, the steam generators will be fitted with advanced low NOx burners with over fire air systems. The NOx emissions will be maintained to to < 100 mg/ Nm3 as per prescribed norms. • Greenbelt/plantation will be done in 33% of the total plant area.
5.3	Emissions from materials handling including storage or transport	Yes	<p>Emissions from material handling, including storage and transportation of coal, ash, and construction materials, will primarily consist of fugitive dust and particulate matter. Following mitigation measures will be adopted :-</p> <ul style="list-style-type: none"> • Regular water sprinkling on coal and ash handling areas, haul roads, and storage yards. Storage of coal and ash in covered sheds or silos. • Use of covered conveyors for coal and ash transport. • Transportation of materials in covered trucks to prevent wind-blown dust. • Paving of internal roads to reduce dust generation. • Regular sweeping/cleaning of roads within the plant premises. • Maintenance of conveyors, transfer points, and storage areas to prevent leaks. • Green belt development • Water sprinkling at regular intervals

5.4	Emissions from construction activities including plant and equipment	Yes	Emissions from construction activities will primarily include dust (particulate matter) generated from site preparation, excavation, material handling, and movement of vehicles, as well as exhaust emissions (NO _x , SO ₂ , CO, hydrocarbons) from construction machinery and equipment. These emissions will be temporary in nature and will be mitigated through appropriate dust suppression measures, proper maintenance of equipment, and adherence to environmental management practices.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste.	Yes	<p>Odour from various sources is being/ will be envisaged , details are as under:-</p> <ul style="list-style-type: none"> ○ Storage tanks/drums are always in closed condition and it is transferred to process in a closed loop. ○ The remedial measures has been taken such as better house-keeping by regular steaming of all the equipments. ○ Temperature is being/ will be kept under control during the process ○ Green belt has been/ will be maintained to control the odour problem.
5.6	Emissions from incineration of waste	No	There will be no incineration of waste.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	No open burning of waste will be allowed. The civil contractor along with site manager will be responsible for the same.
5.8	Emissions from any other sources	No	None

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	The major noise generations sources are the turbines, turbo-generators, pumps, compressors, fans, coal-handling plant etc. from where noise is continuously generated. Acoustic enclosures shall be provided wherever required to control the noise level below 80 dB (A) in work area. Wherever it is not possible technically to meet the required noise levels, personal noise protection appliances shall be provided to workers. Efforts will be made to ensure that noise levels at plant boundary after peripheral greenbelt during plant operation does not exceed prescribed limit.
6.2	From industrial or similar processes	Yes	Noise shall be generated from boilers, compressors, etc. during operation phase. However, the noise levels will be limited to threshold limits through design specification and provisions of acoustic enclosures, laggings and Silencers. Heat will also be dissipated from boilers due to coal burning but it will be controlled within tolerable limits due to thermally insulated design.
6.3	From construction or demolition	Yes	Noise will be generated from construction equipment and machineries. The equipment which are the source of the noise will have inbuilt noise control/abatement system.
6.4	From blasting or piling	No	Blasting operations are not envisaged in the project.
6.5	From construction or operational traffic	Yes	During construction & operation phase due to vehicles movements the noise generation will be minimal.

6.6	From lighting or cooling systems	Yes	Marginal increase in noise levels due to operation of cooling towers.
6.7	From any other sources	No	Not Applicable

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	Yes	Occasional & minor spillage of HSD/HFO may occur. These will not affect water or land because of appropriate flooring & presence of spill control procedures. LDO and HFO will be stored in properly designed steel tanks and handled with all safety measures in place. Tank farm area will have impermeable surface with proper dykes. Moreover, all of the hazardous wastes will be disposed as per guidance of State Pollution Control Board/MoEF&CC.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No.	<ul style="list-style-type: none"> STP treated water will be reused for plantation, cleaning, Horticulture etc. ETP treated water will be recycled in process and ash quenching. <p>The unit will maintain Zero Liquid Discharge (ZLD)</p>
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	<p>AIR ENVIRONMENT</p> <p>Fugitive Emission</p> <p>The air borne fugitive dust from the plant is likely to be generated from coal handling plants, stockpiles and traffic movement which will be deposited on the topsoil in the immediate vicinity of the plant boundary.</p> <p>However, the fugitive emission is likely to be controlled to a great extent through control measure</p>

			<p>like dust suppression system at coal transfer point, deducting system at Crusher House by bag filter, greenbelt etc. The impact of fugitive emissions from all sources is likely to be restricted over a limited area (up to a maximum distance of 500 m from the source).</p> <p>Process Emissions</p> <p>The flue gas emissions from the plant units, resulting from coal combustion, are the primary contributor to increased pollution levels in the ambient air. The emissions will be kept within the specified limits of 30 mg/Nm³ for PM and 100 mg/Nm³ for SO₂ & NO_x, adhering to TPP standards. Mercury (Hg) emissions will be insignificant and below the TPP emission standard of 0.03 mg/Nm³ for Indian coals.</p> <p>WATER ENVIRONMENT</p> <p>There will be no discharge of any liquid effluents outside the plant premises and hence no impact is anticipated due to effluents on the water bodies of the study area.</p> <p>LAND ENVIRONMENT</p> <p>100% Fly Ash Utilization envisaged for the project However, in emergency situation, ash will be disposed in the ash pond in form of High density slurry. The ash pond will be lined to prevent leaching and subsequent contamination of groundwater.</p>
7.4	From any other sources	No	Not envisaged
7.5	Is there a risk of long term build-up of pollutants in the environment from these sources?	Yes	Ash storage envisaged for the project may result in contamination of groundwater resources due to leaching from the ash ponds. However, 100% fly ash utilization is envisaged for the project as well as a liner will be provided in the ash pond to minimize the

			long term risks associated with leaching from the storage of high density ash slurry.
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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	Yes	Fire hazards associated with handling and storage of coal, LDO as well as HFO within the plant premises. A comprehensive Onsite and Offsite Emergency Plan will be prepared to handle risks associated with the identified hazards due to the proposed plant activities and will be integrated with the District Disaster Management Plan for effective implementation.
8.2	From any other causes	Yes	Common risks in factories such as Electric Shock, Hit by Objects, Fall / Slips, Hot Work such as Welding and Cutting & during maintenance activities as well as vehicular accidents are anticipated. Adequate safety measures and Standard Operating Procedures shall be implemented to minimise possibility of these hazards.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	Yes	Project site falls in Zone III as per IS 1893 (moderate damage risk zone) as per Seismic Zone map. Suitable seismic coefficients in horizontal and vertical directions respectively will be adopted while designing the structures. No major incidence of earthquakes, subsidence, flooding or extreme or adverse climatic conditions which could cause the project to present environmental problems reported.

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	<p>Lead to development of supporting cities, ancillary development or development stimulated by the project which could have impact on the environment e.g.</p> <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • Housing development • Extractive industries • Supply industries • Other 	Yes	<ul style="list-style-type: none"> • Infrastructure Development – Improvement of road connectivity, power supply systems, and water supply facilities. • Housing Development – Establishment of residential colonies and associated amenities for project personnel. • Supply & Service Industries – Growth of industries supplying coal, construction materials, machinery, and maintenance services. • Commercial Activities – Increase in small businesses such as shops, workshops, and transport services. • Indirect Employment – Generation of jobs in supporting sectors such as logistics, hospitality, and retail. • Potential Environmental Impacts – Additional load on local resources, waste generation, and increased traffic, to be mitigated through sustainable planning and adherence to environmental regulations.
9.2	Lead to after use of the site, which could have an impact on environment	No	None
9.3	Set a precedent for later developments	No	None

9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects.	Yes	No cumulative effect anticipated as the proposed plant is not located in a Critically polluted area as well as there are no major proposed industries within the 10 km radius of the proposed plant.
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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	None within 15 km radius																																											
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	As under:- <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="3">PROTECTED FORESTS</th> </tr> <tr> <th>Name</th> <th>Aerial Distance (Km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>PF*</td> <td>0.05*</td> <td>W</td> </tr> <tr> <td>P.F N/v Sluire</td> <td>0.98</td> <td>S</td> </tr> <tr> <td>P.F N/v Gokulpura</td> <td>1.80</td> <td>NNE</td> </tr> <tr> <td>P.F N/v Pathardaha</td> <td>3.30</td> <td>NNW</td> </tr> <tr> <td>P.F N/v Dakshinsol</td> <td>3.50</td> <td>NE</td> </tr> <tr> <td>Salboni P.F</td> <td>3.90</td> <td>WSW</td> </tr> <tr> <td>P.F N/v Bankibandh</td> <td>5.07</td> <td>ENE</td> </tr> <tr> <td>P.F N/v Betkundri</td> <td>5.48</td> <td>SSE</td> </tr> <tr> <td>P.F N/v Mirga</td> <td>5.58</td> <td>N</td> </tr> <tr> <td>P.F</td> <td>6.66</td> <td>SSW</td> </tr> <tr> <td>Lalgarh P.F</td> <td>7.0</td> <td>WNW</td> </tr> <tr> <td>Elephant Corridor#</td> <td>7.0</td> <td>West</td> </tr> </tbody> </table>		PROTECTED FORESTS			Name	Aerial Distance (Km)	Direction	PF*	0.05*	W	P.F N/v Sluire	0.98	S	P.F N/v Gokulpura	1.80	NNE	P.F N/v Pathardaha	3.30	NNW	P.F N/v Dakshinsol	3.50	NE	Salboni P.F	3.90	WSW	P.F N/v Bankibandh	5.07	ENE	P.F N/v Betkundri	5.48	SSE	P.F N/v Mirga	5.58	N	P.F	6.66	SSW	Lalgarh P.F	7.0	WNW	Elephant Corridor#	7.0	West
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3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration.	None within 15 km radius																																							
4	Inland, coastal, marine or underground waters	None within the study area																																							
5	State, National boundaries	None																																							
6	Routes or facilities used by the public for access to recreation or other	<p>As under:</p> <table border="1"> <thead> <tr> <th>Particulars</th> <th>Aerial Distance (in km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>N.H.60</td> <td>1.10</td> <td>East</td> </tr> </tbody> </table>	Particulars	Aerial Distance (in km)	Direction	N.H.60	1.10	East																																	
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	tourist, pilgrim areas							
7.	Defence installations	None						
8	Densely populated or built-up area	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Aerial Distance (in km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Salboni</td> <td>~6.72</td> <td>NNE</td> </tr> </tbody> </table>	Particulars	Aerial Distance (in km)	Direction	Salboni	~6.72	NNE
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9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	As under:						

S. No	Infrastructure Available	Name	Distance (in KM)	Directions
1.	Educational Facilities	Sitanathpur S.S High School	0.02	E
		Palaibani Primary School, Palaibani	0.20	N
		Jambediajr. High School	1.40	ENE
		Dhanyasole ICDS school	1.74	NNE
		Kotalkuli Upper Primary school	1.85	NNE
		Deulkund pry school	2.32	SW
		Bhursa Primary School	2.36	SW
		Analysis & Research Training Institute. (ARTI)	2.84	NE
		Kendriya Vidyalaya BRBNMPL Salboni	3.00	NE
		Saiyedpur primary school	3.18	ENE
		Narasinghapur Primary School	4.64	SSE
		2.	Medical Facilities	Health Centre, Sitanathpur
Health Centre, Dubrajpur	1.50			NE
Health Centre, Kashijora	2.60			South
Health Sub-Centre, Hatmari	2.70			East
3.	Temples	Asnasuli Hunuman Mandir	0.23	E
		Kali temple	0.29	E
		Jambedia Kali Mandir	1.57	E
		Jagannath temple	2.69	NE

10	Areas containing important, high quality or scarce resources (<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	Salboni	The project site falling in Salboni block & is categorized as "Safe category" in terms of groundwater potential.
11	Areas already subjected to pollution or environmental	None	Not Applicable



	damage. <i>(those where existing legal environmental standards are exceeded)</i>		
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>	Earthquake Zone III	Project site falls in Zone III as per IS 1893 (moderate damage risk zone) as per Seismic Zone map. No major incidence of earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions which could cause the project to present environmental problems reported.

"I hereby give an undertaking that the data and information given in the application and enclosure are true to the best of my knowledge and belief 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: 11.08.2025

Place: Salboni, Paschim Medinipur, West Bengal

