

# FORM-1

*for*

**Proposed Bakreswar Thermal Power Project  
Extension Unit #6 (1 X 660 MW) of Super Critical  
Technology**

*at*

**Village Bangaon, P.S. Sadaipur,  
Tehsil: Suri-I, District: Birbhum, West Bengal**

SUBMITTED TO

**MINISTRY OF ENVIRONMENT, FOREST & CLIMATE  
CHANGE, GOVT. OF INDIA**

*Project Proponent*

**West Bengal Power Development Corporation Limited**

Bidyut Unnyan Bhaban, Plot – 3/C, LA – Block, Salt Lake City,  
Sector – III, Kolkata – 700 098

WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.	PROPOSED BAKRESWAR THERMAL POWER PROJECT EXTENSION UNIT #6 (1 X 660 MW) OF SUPER CRITICAL TECHNOLOGY AT VILLAGE BANGAON, P.S. SADAIPUR, TEHSIL SURI-I, DISTRICT BIRBHUM, WEST BENGAL	FORM - 1
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## FORM-1

### (I) Basic Information

Sl.No.	Item	Details
1.	Name of the Project	: Proposed Bakreswar Thermal Power Project Extension Unit #6 (1X660 MW) of Super Critical Technology
2.	S. No. in the Schedule	: Item 1(d) of Category- A
3.	Proposed capacity / area / length /tonnage to be handled / command area / lease area /number of wells to be drilled	: Proposed capacity – 1 x 660 MW  The extension unit will be set up on 35.98 Ha. of the vacant land, adjacent to the existing units.  Capital Cost of the Project – Rs. 4350.93 Crores
4.	New / Expansion / Modernization	: Expansion
5.	Existing Capacity / Area etc.	: Existing Capacity - 5 x 210 MW.  All the existing units are located within a common boundary, covering an overall area of about 180 Ha.
6.	Category of Project 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	: Co-ordinates of the Project Site:  Latitude: 23°49'59.85"N Longitude: 87°27'01.56"E
	Plot / Survey / Khasra No.	: JL No.131, P.S. Sadaipur,
	Village	: Bangaon
	Tehsil	: Suri-I
	District	: Birbhum
	State	: West Bengal
10.	Nearest railway station / airport along with distance in kms.	: Chinpai Railway station – 1.8 km (approx.)  NSCBI Airport, Kolkata - 166 km (approx)
11.	Nearest Town, City, District Headquarters along with distance and km.	: Nearest Town - Suri (District H.Q) (about 12 km)
12.	Village Panchyat, Zilla Parishad, Municipal	: Bakreswar Thermal Power Station Village Panchayat: Bhurkona

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	Corporation, Local Body (complete postal address with telephone nos. to be given)	District: Birbhum, West Bengal. Tele: (03462 220201)
13.	Name of the Applicant	: Sri Indranil Dutta
14.	Registered Address	: <b>West Bengal Power Development Corporation Limited (WBPDCCL)</b> Bidyut Unnyan Bhaban, Plot – 3/C, LA – Block, Salt Lake City, Sector – III, Kolkata – 700 098
15.	Address for Correspondence	: <b>West Bengal Power Development Corporation Limited (WBPDCCL)</b> Bidyut Unnyan Bhaban, Plot – 3/C, LA – Block, Salt Lake City, Sector – III, Kolkata – 700 098
	Name	: Sri Indranil Dutta
	Designation (Owner / Partner CEO)	: Director (Projects)
	Address	: <b>West Bengal Power Development Corporation Limited (WBPDCCL)</b> Bidyut Unnyan Bhaban, Plot – 3/C, LA – Block, Salt Lake City Sector – III, Kolkata
	Pin Code	: 700098
	E-mail	: i.dutta@wbpdcl.co.in
	Telephone No.	: (033) 2339-3203 / 28336904085
	Fax No.	: 033-2339-3286/2335-0516
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	NIL
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. The Forest (Conversation) Act, 1980?	No
	The Wildlife (Protection) Act, 1972?	No
	The C. R. Z. Notification, 1991?	No

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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 project is propose to be setup? Name of the Court Case No. Orders /directions of the Court, if any and its relevance with the proposed project.	No

\* 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.)

Sl.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)	No	<p>The extension unit will be set up on 35.98 Ha. of the vacant land, adjacent to the existing units, which is under the possession of the company.</p> <p>The land is generally flat and does not come under flood zone.</p> <p>This project will be developed following a land use plan, which will 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 enhance the aesthetics of the area.</p>
1.2	Clearance of existing land, vegetation and buildings?	No	The proposed site is a vacant land with no habitation.
1.3	Creation of new land uses?	No	
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	-
1.5	Construction works?	Yes	The civil works for the construction and development of the proposed project include bulk earthworks, construction factory shed, internal roads and parking areas, drainage system, underground and overhead tanks etc.
1.6	Demolition works	No	-
1.7	Temporary sites used for construction works or housing of construction workers	Yes	Suitable temporary accommodation for workers will be made within the project site.

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1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	Please refer Detailed Project 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	Power Plant – 1 x 660 MW of super critical technology. For details, please refer 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	<ul style="list-style-type: none"> <li>• Zero liquid effluent discharge schemes have been envisaged for the plant effluents. All effluents in the plant will be treated and recycled.</li> <li>• Closed cooling water system with cooling towers envisaged, thus reducing significantly the water requirement for the plant.</li> <li>• Adequate treatment facility shall be provided for all the liquid effluents, generated from the power plant.</li> <li>• Cooling tower blow down water shall be utilized in coal handling plant dust suppression, service water system for floor washing and cleaning, CHP dust suppression and for ash handling system.</li> <li>• Water recovery system shall be provided in the ash disposal area for reuse of ash water.</li> <li>• Fly ash, generated during power generation shall be utilized in cement making/ brick manufacturing/ as mine fill/ building blocks/ road sub-base/ road embankment/ agricultural application/ as land filling material.</li> <li>• Bottom ash, generated during power generation shall be used in construction of roads and embankments in rural areas/</li> </ul>

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			landfill in low lying areas/ as filling material of abandoned mines. <ul style="list-style-type: none"> <li>• Domestic solid waste from the plant and township will be disposed of suitably in consultation with the concerned Authority.</li> <li>• Domestic wastewater will be treated in sewage treatment plant.</li> </ul>
1.16	Facilities for long term housing of operational workers	Yes	There is already a township, developed for the existing plant. Additional 30 dwelling units along with civic amenities will be developed in the vacant spaces available in the township.
1.17	New road, rail or sea traffic during construction or operation.	No	The site is well connected to main road way. No new road, rail or sea traffic during construction or operation.
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 lines or pipelines	No	-
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 form ground or surface waters	Yes	Make-up water requirement of the proposed 1 x 660 MW unit would be around 1651 m <sup>3</sup> /hr, which is within the existing allocation of the plant and the same will be fulfilled from the existing sources i.e., from Tilpara barrage and Bakreswar dam.
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. These systems will be used for transportation of materials, equipment and personnel during construction and operation phases.
1.26	Long-term dismantling or	No	

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	decommissioning or restoration works?		
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	During operation of the proposed 1x660 MW unit, manpower (around 130 as permanent) will be required. Besides, contractual personnel will also be required during capital maintenance and also to provide various services inside the plant during operation, who are expected to come from the neighbouring areas.
1.29	Introduction of alien species?	No	
1.30	Loss of native species or genetic diversity?	No	
1.31	Any other actions?	No	

**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):**

SL.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 extension unit will be set up on 35.98 Ha. of the vacant land, adjacent to the existing units, which is under the possession of the company.  The land is generally flat and does not come under flood zone.
2.2	Water (expected source & competing users) unit: KLD	Yes	Make-up water requirement of the proposed 1 x 660 MW unit would be around 1651 m <sup>3</sup> /hr, which is within the existing allocation of the plant and the same will be fulfilled from the existing sources i.e., from Tilpara barrage and Bakreswar dam.
2.3	Minerals (MT)	Yes	For a 660 MW ultra supercritical unit, the requirement of coal for 80% PLF will be 2.03 million

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			tonnes per annum.
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	The construction materials such as cement, MS, sand, aggregates etc will be Sourced locally.
2.5	Forests and timber (source – MT)	No	-
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Power Consumption during construction phase: 25 MW (approx) in different phases  Power Consumption during operation phase: 40 MW (approx) which shall be auxilliary power.  Start up fuel (LDO & HFO): 11564 KL per annum
2.7	Any other natural resources (use appropriate standard units)	No	-

**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.**

Sl.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	LDO / HFO, Chorine, Hydrogen.
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?	Yes	WBPDCCL shall consider the following general measures for the socio-economic – upliftment/welfare of the nearby villages: Providing job oppurtunity to local people specially in unskilled category, Vocational training to local youth, provoding medical

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			assistance to local people, Local infrastructure development, social Afforestation, Extending support to games, sports and culture to local coimmunity.
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).

Sl. 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 of suitably in consultation with the concerned Civic body.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	-
4.4	Other industrial process wastes	Yes	Ash from power plant: 0.812 million tons per annum  Fly ash: 0.6496 million tons per annum  Bottom ash: 0.1624 million tons per annum
4.5	Surplus product	No	-
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Sewage sludge from STP will be utilized as manure for the greenbelt/ plantation inside the plant area.
4.7	Construction or demolition wastes	No	Construction wastes will be utilized to develop the land.

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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	<p>There will be SO<sub>2</sub>, NO<sub>x</sub> and particulate emission from the combustion of fossil fuel (coal), which will be reduced by installing the electrostatic precipitator and finally discharged into the atmosphere through tall stack of 275 m. height.</p> <p>Low NO<sub>x</sub> burners with SCR have been envisaged to control NO<sub>x</sub> emission.</p> <p>There will be Flue Gas Desulphurisation system to control SO<sub>2</sub> emission.</p>
5.2	Emissions from production processes	Yes	As stated above.
5.3	Emissions from materials handling including storage or transport	Yes	Dust Extraction and Dust Suppression Systems shall be installed to control dust emissions at Coal and ash handling areas.
5.4	Emissions from construction activities including plant and equipment	Yes	Water sprinkling arrangement will be provided to reduce dust during construction.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Dust suppression system will be provided. There will be no odour problem from handling of construction materials, sewage and other wastes.
5.6	Emissions from incineration of waste	No	-

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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	-

## 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	Equipment will be selected with Noise and vibration within the industrial norm.
6.2	From industrial or similar processes	Yes	From Turbine, Fans, Pumps etc.
6.3	From construction or demolition	Yes	Noise below the level of 75 dB(A) will be generated during construction phase.
6.4	From blasting or piling	No	There will be some piling activity with insignificant impact on the local environment. However, there will no blasting.
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	Yes	The noise levels due to operation of the cooling tower will be below the level of 75 dB(A).
6.7	From any other sources	Yes	The noise levels below 85 dB(A) will be generated during operation of the power plant.

## 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	-

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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"> <li>• Zero liquid effluent discharge schemes have been envisaged for the plant effluents. All effluents in the plant will be treated and recycled.</li> <li>• Closed cooling water system with cooling towers envisaged, thus reducing significantly the water requirement for the plant.</li> <li>• Adequate treatment facility shall be provided for all the liquid effluents, generated from the power plant.</li> <li>• Cooling tower blow down water shall be utilized in coal handling plant dust suppression, service water system for floor washing and cleaning, CHP dust suppression and for ash handling system.</li> <li>• Water recovery system shall be provided in the ash disposal area for reuse of ash water.</li> <li>• Domestic wastewater will be treated in sewage treatment plant.</li> <li>• The treated water from the STP will be used in the greenbelt/ plantation inside the plant area.</li> </ul>
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	Dust will be generated to some extent due to different project activities. During the construction phase, proper care will be taken to reduce dust emission, wherever possible.
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	-

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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	Compliance to safety rules and Disaster Management Plan shall be in place.
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-III 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"> <li>• Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)</li> <li>• housing development</li> <li>• extractive industries</li> <li>• supply industries</li> <li>• other</li> </ul>	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	This project will enhance the possibility of developing supporting industrial activities in surrounding areas.

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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

Sl. 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	-
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	None	-
4	Inland, coastal, marine or underground waters	Mayurakshi River  Ajay River	Around 14.0 km in north direction w.r.t the Project Site.  Around 15.0 km in south direction w.r.t the Project Site.
5	State, National boundaries	West Bengal – Jharkhand State Boundary	Around 17.5 km in west direction w.r.t the Project Site.
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	None	-
7	Defense installations	None	-

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8	Densely populated or built-up area	Suri  Debrajpur	Around 12 km in north-east direction w.r.t the Project Site.  Around 8.5 km in south-west direction w.r.t the Project Site.
9	Areas occupied by sensitive man-made land uses ( <i>hospitals, schools, places of worship, community facilities</i> )	<p><b><u>SCHOOL:</u></b></p> <ul style="list-style-type: none"> <li>• Holy Mother English Medium Primary School</li> <li>• Sri Ramkrishna Primary School</li> <li>• Bodakuro Primary School</li> <li>• Hetampur Girls High School</li> <li>• DAV Public School Hetampur</li> <li>• Hetampur Raj High School</li> <li>• Hindi Primary School</li> <li>• RBSD High School</li> <li>• Durbarajpur Girls School</li> <li>• U.P. Public School</li> <li>• Sarojini Smriti Primary School</li> <li>• Kalipur JB School</li> <li>• Bakreshwar Primary School</li> <li>• ADDA S.P.P. High School</li> <li>• Gokrul Tara Sundari Junior Basic School</li> <li>• Kaithanpur Junior High School</li> <li>• Batikar Abhedananda Vidyapith</li> <li>• Ananda Marg Primary School</li> <li>• Mangalpur Junior High School</li> <li>• Nagari SBSN High School</li> <li>• Birbhum Zilla School</li> <li>• Rabindranath Tagore Girls High School</li> <li>• Suri River Thomson Girls High School</li> <li>• Garagara JCGS Primary School</li> <li>• Suri Municipal Girls High School</li> <li>• Dhagara Uttardaha Junior High School</li> <li>• Sajina Public High School</li> <li>• Kubirpur High School</li> <li>• Purandarpur High School</li> <li>• Demuria Primary School</li> <li>• Debipur Char Primary School</li> <li>• Palashdanga Junior High School</li> </ul>	<ul style="list-style-type: none"> <li>• 1.1 km from the project site</li> <li>• 2.0 km from the project site</li> <li>• 4.6 km from the project site</li> <li>• 7.9 km from the project site</li> <li>• 8.1 km from the project site</li> <li>• 8.4 km from the project site</li> <li>• 8.5 km from the project site</li> <li>• 8.8 km from the project site</li> <li>• 9.0 km from the project site</li> <li>• 9.3 km from the project site</li> <li>• 9.6 km from the project site</li> <li>• 9.9 km from the project site</li> <li>• 10.1 km from the project site</li> <li>• 10.2 km from the project site</li> <li>• 10.3 km from the project site</li> <li>• 10.3 km from the project site</li> <li>• 11.0 km from the project site</li> <li>• 11.1 km from the project site</li> <li>• 11.2 km from the project site</li> <li>• 12.0 km from the project site</li> <li>• 12.1 km from the project site</li> <li>• 12.2 km from the project site</li> <li>• 12.3 km from the project site</li> <li>• 12.3 km from the project site</li> <li>• 12.0 km from the project site</li> <li>• 13.0 km from the project site</li> <li>• 13.1 km from the project site</li> <li>• 14.0 km from the project site</li> <li>• 14.1 km from the project site</li> <li>• 14.1 km from the project site</li> <li>• 15.0 km from the project site</li> <li>• 15.0 km from the project site</li> </ul>

WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.	PROPOSED BAKRESWAR THERMAL POWER PROJECT EXTENSION UNIT #6 (1 X 660 MW) OF SUPER CRITICAL TECHNOLOGY AT VILLAGE BANGAON, P.S. SADAIPUR, TEHSIL SURI-I, DISTRICT BIRBHUM, WEST BENGAL	FORM - 1
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		<p><b><u>COLLEGE:</u></b></p> <ul style="list-style-type: none"> <li>• Bengal Institute of Polytechnic</li> <li>• Hetampur Krishnachandra College</li> <li>• Suri Vidyasagar College</li> <li>• Sukla Devi Academy for B.Ed.</li> <li>• LCG Institute of Polytechnic</li> <li>• Birbhum Mahavidyalaya</li> <li>• Birbhum Institute of Engineering &amp; Technology</li> </ul> <p><b><u>HOSPITAL:</u></b></p> <ul style="list-style-type: none"> <li>• Niramoy TB Sanatorium</li> <li>• Main Hospital</li> <li>• Glocal Health Care Hospital</li> <li>• Maan Sayer Hospital</li> <li>• Suri Sadar Hospital</li> <li>• Government Hospital</li> <li>• Abinashpur Hospital</li> </ul>	<ul style="list-style-type: none"> <li>• 4.2 km from the project site</li> <li>• 7.9 km from the project site</li> <li>• 11.0 km from the project site</li> <li>• 12.0 km from the project site</li> <li>• 12.1 km from the project site</li> <li>• 13.0 km from the project site</li> <li>• 14.0 km from the project site</li> </ul> <ul style="list-style-type: none"> <li>• 6.0 km from the project site</li> <li>• 6.1 km from the project site</li> <li>• 7.7 km from the project site</li> <li>• 8.3 km from the project site</li> <li>• 12.0 km from the project site</li> <li>• 12.0 km from the project site</li> <li>• 14.0 km from the project site</li> </ul>
10	Areas containing important, high quality or scarce resources ( <i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i> )	<p>Mayurakshi River</p> <p>Ajay River</p>	<p>Around 14.0 km in north direction w.r.t the Project Site.</p> <p>Around 15.0 km in south direction w.r.t the Project Site.</p>
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	-

WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.	PROPOSED BAKRESWAR THERMAL POWER PROJECT EXTENSION UNIT #6 (1 X 660 MW) OF SUPER CRITICAL TECHNOLOGY AT VILLAGE BANGAON, P.S. SADAIPUR, TEHSIL SURI-I, DISTRICT BIRBHUM, WEST BENGAL	FORM - 1
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**(IV) Proposed Terms of Reference for EIA Studies:**

Proposed Terms of Reference for EIA studies enclosed as Annexure.

WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.	PROPOSED BAKRESWAR THERMAL POWER PROJECT EXTENSION UNIT #6 (1 X 660 MW) OF SUPER CRITICAL TECHNOLOGY AT VILLAGE BANGAON, P.S. SADAIPUR, TEHSIL SURI-I, DISTRICT BIRBHUM, WEST BENGAL	FORM - 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 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: 23-11-2017

Place: Kolkata

**Indranil Dutta**  
**Director (Projects)**

**Address:**

**West Bengal Power Development Corporation Limited (WBPDCCL)**

Bidyut Unnyan Bhaban,  
Plot – 3/C, LA – Block, Salt Lake City,  
Sector – III, Kolkata – 700 098

**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.