

DETAILED NOTE ON THE PROJECT

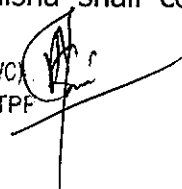
NTPC Limited, the largest power company in India, was set up in 1975 to augment power requirement in the country. It is among the world's largest and most efficient power generation companies. Present installed capacity of NTPC is 43,019 MW (including 5,974 MW through JVs) comprising of 38 NTPC Stations (17 Coal based stations, 7 combined cycle gas/liquid fuel based stations), 7 Joint Venture stations (6 coal based and one gas based) and 7 renewable energy projects. At present with about 18% of the installed capacity in the country, Group-NTPC generated about 27% of the total power generated in the country FY13. It plans to become a 128,000 MW generating company by 2032. NTPC has gone beyond the thermal power generation and has diversified into hydro power, coal mining, power equipment manufacturing, oil & gas exploration, power trading & distribution. NTPC is now in the entire power value chain and is poised to become an Integrated Power Major. NTPC has added 2490 MW in FY 10-11, 2820 MW in FY 11-12 and 4170 MW in FY 12-13 and 1780 MW in FY 13-14 and has targeted to add 14058 MW during the 12th plan. NTPC has set new benchmarks for the power industry both in the area of power plant construction and operation.

Recognizing its excellent performance and vast potential, Government of India has identified NTPC as one of the jewels of Public Sector 'Maharatna'- a potential global giant. Inspired by its glorious past and vibrant present, NTPC is well on its way to realize its vision of being "A world class integrated power major, powering India's growth, with increasing global presence". Going forward, in its target to remain the largest generating utility of India, NTPC is in its constant endeavour to maintain and improve its share of India's generating capacity.

PROPOSAL: Darlipali Super Thermal Power Project has been conceived as a coal based power plant of 3200 MW ultimate capacity near village Darlipali in District Sundergarh, Odisha. The project is envisaged to be implemented in two stages i.e. Stage-I (2x 800 MW) and Stage-II (2x800 MW). The plant site is about 330 km from Bhubaneswar Airport in Odisha and about 300 kms from Raipur Airport in Chhattisgarh. The ministry of power (MOP) has accorded Mega power Project status for the same vide its letter dt. 25th June 2010. (**Encl: Annexure I**).

PART A: The make-up water requirement for both the stages is about 95 cusecs (84.84 MCM), which shall be drawn from Hirakud reservoir on River Mahanadi. Industrial Promotion and Investment Corporation of Odisha Limited (A Govt. of Odisha Undertaking), vide letter No. SW/PP/NTPC/Darlipali/25/49 dtd.14.02.14 has recommended for allocation of 95 cusecs of water for the project. Water Resource Department, Govt. of Odisha has accorded permission for in-principal allocation of 95 cusecs of water in favour of M/s NTPC Limited vide letter No.13280/WR dtd 31.05.2014 (**Encl: Annexure VI**). In lieu of allowing drawal of water from Hirakud Reservoir, Water Resource Department, Govt. of Odisha shall construct anicuts/

प्रमोद कुमार / Pramod Kumar
महा प्रबंधक (प्रभारी) / General Manager (I/C)
दरलिपाली सुपर थर्मल पावर प्रोजेक्ट / Darlipali STPP
एनटीपीसी लिमिटेड / NTPC LTD.
सुंदरगढ़ / Sundargarh




weirs on the river Mahanadi, IB& its tributaries on deposit work basis (funded by NTPC) in phased manner.

The approx. length of the MUW Pipeline corridor from from Darlipali STPP, Darlipali to intake location at Chharharama is 40 km. This corridor passes through

- i) 02 revenue villages (Darlipali & Kanaktura) of Sundargarh district
- ii) 18 revenue villages (Chichinda, Kechhobahal, Chandlimal, Rajpur, Goudmal, Katapali, Degaon, Brajarajnagar Unit-2, Brajarajnagar Unit-1, Bundia, Ailapali, Balput, Kirarama, Sarandamal, Dalagaon, Negipali, Telenpali, Banharpali) of Jharsuguda district

The make-up water pump house, 132 KV Switchyard and its facility area are proposed to be constructed at the bank of the Hirakud reservoir, which is about 40 km from main plant site. The proposed pump house on the bank shall be connected with the Hirakud reservoir through an Intake Channel. In order to devise the uninterrupted and sustainable 'Scheme for Drawal of Make-up Water from Hirakud Reservoir' (**Encl: Annexure X**), detailed study has been carried out for location and type of intake based on hydrographic survey carried out in river Mahanadi near Chhadrama village, adjacent to the intake channel of IB Thermal Power Project of Odisha Power Generation Company (OPGC) Ltd.

PART B : 2 nos. dedicated 132 KV transmission lines has been envisaged from Darlipali plant site to Make up water pump house along the pipe line for which necessary approval from Ministry of power, Govt. of India has already been obtained. The transmission lines are proposed along the said pipeline corridor.


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महा प्रबंधक (प्रभासी) / General Manager (I/C)
दर्लिपाली सुपर थर्मल पावर प्रोजेक्ट / Darlipali STPP
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