



एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)
(Formerly National Thermal Power Corporation Ltd.)

नबीनगर / Nabinagar

Ref:1086/NSTPS/ Env't, Mgt./03/2023

Date: 30.06.2023

To,
The Ministry of Environment, Forest & Climate Change
Regional Office, Eastern Central Zone
Bungalow No A-2, Shyamli Colony
Ranchi- 834002
Email: ro.ranchi-mef@gov.in

Sub: Submission of Environment Clearance Compliance Report for the period from Oct. 22 to March 23 for NSTPS Nabinagar.


Ref: MOEF Clearance award letter no J-13012/127/2007/IA.II (T), dt. 27.12.2010.

Ref: MOEF clearance award letter no J-13012/127/2007/IA.II (T) dt 14.01.2020.

Dear Sir,

With reference to the above, please find enclosed ECCR (Environment Clearance Compliance Report) for the period from Oct. 22 to March 23 of Nabinagar Super Thermal Power Station (3X660MW).

Yours Sincerely,


(Krishna Deo Pandey)
DGM (EMG)
NSTPS, Nabinagar.



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S.N.	CONDITIONS	EC Compliance Report as on 31.03.2023
Specific Conditions		
SC-01	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Vision doc submitted with 1 st ECCR submitted on 27.05.2014.
SC-02	Land requirement shall be restricted to 1500 acres (including ash pond).	Total Land Acquired = 2970 Acres • Stage I - (3x660MW)- Around 1500 Acre (including Ash Pond), Under execution. • Stage II- (3x660MW) - around 1470 acres Proposed.
SC-03	Provision for installation of FGD shall be provided for future use.	FGD is provisioned and FGD work under progress.
SC-04	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ . Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	• ESP with efficiency of 99.97% is operational in running units to limit PM emission <30 mg/Nm ³ . • Provision for dust extraction system in coal handling area and ash handling areas including transfer points as well as other vulnerable dusty areas has been provisioned and being provided
SC-05	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to MoEF for suitable amendments to environmental clearance condition wherever necessary.	Being complied. In case of variation in supply of coal quality, fresh reference shall be made to MoEF.
SC-06	Stack of 275 m height shall be installed and provided with continuous online monitoring equipment for SO _x , NO _x and Particulate Matter. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.	• 275 m stack has been provided with continuous online monitoring system for SO _x , NO _x and PM. • Exit velocity ≥ 22 m/sec is being complied. • Hg Emission Monitoring is being carried out offline and online Hg analyser has also been installed and commissioned in Unit # 1, Unit # 2 and Unit # 3 Stacks.
SC-7	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponent's expenses in consultation with the state Govt.	Study has been conducted by M/s Geoscience Consultancy Services Roorkee. Report yet to be submitted.

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SC-8	Detailed hydro-geological study shall be conducted (including sustainability of water source study) shall be carried out by an institute of repute and report submitted to the Regional Office (RO) of the ministry. Further hydro-geological study shall be reviewed annually from an institute/ organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the RO of the Ministry.	Hydro-geological study of NSTPS Nabinagar has been conducted by National Institute of Hydrology, Roorkee. Report of study has already been submitted. Hydro-geological study is being carried out by M/s Geoscience Consultancy Services Roorkee Vide PO No. 4000303494 dated 31.03.2023. Report will be submitted once the study is completed.
SC-9	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months.	Source of water for meeting the requirement during lean season shall be same as during normal period of operation. The source of the water is from Indrapuri Barrage on Sone River.
SC-10	No ground water shall be extracted for use in operation of the power plant even in lean season.	Ground water is not being extracted for operation of units under any circumstances.
SC-11	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.	No water bodies have been disturbed due to setting up and operation of NSTPS units.
SC-12	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers (as applicable) even in lean season.	The quantity of water drawn for Nabinagar STPS from Indrapuri Barrage shall be limited to committed quantity for the project by State Govt. and therefore minimum required environmental flow shall be maintained.
SC-13	COC (Cycle of Concentration) of 5.0 shall be adopted. The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.	COC of 5.0 has been adopted. Treated effluents are recycled and reused and plant has been designed for Zero liquid discharge.





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	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	A sewage treatment plant installed and operational and the treated sewage is being sent to horticulture ring for raising greenbelt/plantation.
SC-14	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied.
SC-15	Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	System for 100% extraction of dry fly ash along with suitable storage facilities has been designed. A utilization plan has been made for 100% fly ash utilization and all efforts are being made for 100 % ash utilization.
SC-16	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Dry Fly Ash Extraction system (DAES) is under operational which collects 100% fly ash in dry form however, dry ash transportation by railway wagons is under construction. Unutilized fly ash shall be disposed through High Concentrated Slurry Discharge (HCSD) and bottom ash through normal slurry mode. Heavy metal monitoring of bottom ash is being carried out periodically. Report attached as Annexure-'A' Heavy metal monitoring of Ash Pond effluent shall be carried out once as pond effluents are discharged.
SC-17	Ash pond shall be lined with HDP/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	NSTPS has different systems for disposal of Fly ash and bottom ash: <ul style="list-style-type: none"> • High Concentration Slurry Disposal System (HCSD) for fly Ash (Lagoon-I). • Wet Slurry Disposal with Ash Water Re-circulation for Bottom Ash. (Lagoon - II & III). In HCSD lagoon (01 No), the disposed layers of ash are solidified, therefore leaching from HCSD lagoon is minimal. In one bottom ash lagoon, 300 mm thick high concentrated slurry is spread to make it impervious and in another BA lagoon 0.3m thick impervious liner of soil blended with bentonite to achieve a permeability $<1 \times 10^{-6}$ cm/sec is provided.

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Nabinagar Super Thermal Power Station, Post-Aditi Nagar, Distt.: Aurangabad (Bihar) Pin Code: 824304
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		<p>Various instruments (Piezometers, water level sounders, settlement markers) are installed in body of ash dyke at various locations for monitoring the health of ash dyke embankment. The supernatant from the ash dykes are recycled back to the plant to ensure minimum water inside ash dyke.</p> <p>Adequate safety measures have already been incorporated at design & construction level so as to prevent dyke from breaching. Operational and preventive measures are in practice to prevent any occurrence of breaching.</p>
SC-18	<p>Disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) shall be carried out only after obtaining permission from DGMS and it shall be ensured that the bottom and sides of the mined-out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.</p>	<p>Noted and disposal of Bottom Ash in abandoned mines is not envisaged. In case, it is carried out in future, it shall be carried out as per direction stipulated in EC conditions.</p>
SC-19	<p>Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised, and adequate justification shall be submitted to the Ministry.</p> <p>Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.</p>	<p>Green belt is being developed with plantation of native species with specified tree density and survival rate by Forest Department, Govt. of Bihar.</p> <p>Approx. 1,47,500 Saplings have been planted under mass afforestation program with survival rate more than 75%.</p>
SC-20	<p>The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing fluoride free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.</p>	<p>As per Hydro-Geological Study by NIH, Roorkee, the concentration of fluoride is within the prescribed limit (i.e. 1.5 mg/L) for drinking water requirement in surface water nearby NSTPS project area.</p> <p>However, as per NSTPS R&R community development scheme, requisite amount has been deposited to PHED, Deptt. Aurangabad for installation of 110 hand pump* for safe drinking water in the nearby villages and 90% work is completed.</p>

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कॉर्पोरेट आइडेंटिफिकेशन नम्बर / Corporate Identification Number : L40101DL1975GOI007966 वेबसाइट / website: www.ntpc.co.in



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SC-21	Further an amount of Rs 60.53 Crores shall be earmarked as one-time capital cost for CSR program as committed by the project proponent. Subsequently a recurring expenditure of Rs 10.40 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with road map for implementation.	As per approved Community development (CD) plan under R&R scheme, work has been undertaken for 44.21 cr value upto FY 2022-23. Further, Proposal for 10.29 cr. CD activities is under pipeline for award of the work in FY 2022-2023 and FY 2023-24. For Balance amount 6.13 Cr, Activities are under finalization with stakeholders and District administration. Detail annexed as Annexure – CSR (SC-21).
SC-22	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Special scheme for Bidi workers of Solapur shall be formulated. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self-employment and jobs shall be imparted to identified villagers free of cost.	Being complied. The suggested activities are included in approved CD plan by Collector Aurangabad for its implementation based on need based assessment. NSTPS sponsored to 30 youths for skill development programme at CIPET Hazipur, Agro based training like vermicomposting provided to 50 PAPs and Bee keeping training and honey production training has been provided to 50 PAPs, training for farmers and reimbursement of tuition fees for ITI course to the 115 PAPs/their wards. In future Agro based training shall be imparted as a part of CD plan. Vocational training for skill development of village and sewing training in the village provided. Sewing machine has been provided in all 50 participants. Other need-based skill training like Mushroom cultivation etc. shall also being organised in consultation with stakeholders....
SC-23	Shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Being complied. NSTPS/NTPC Ltd has in-built own system for monitoring and implementation of complete CSR/R&R Community Development Plan at the Unit Level, Region level and Corporate level. A specific social audit shall be undertaken after.
General Conditions		
GC-1	A well-designed rainwater harvesting shall be put in place before commissioning of the plant. Central Groundwater Authority /Board shall be consulted for finalization of	Approval of CGWB granted for construction of Rainwater harvesting. P.O. Awarded vide PO No. 5500041923 dated 06.01.2023 for construction of 4 no. Of Rainwater

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	appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished.	Harvesting structures near Raw water reservoirs of NSTPS Nabinagar.
GC-2	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Provision for adequate safety measures is being implemented as stipulated. Details of safety measures and plant lay out has already been submitted to RO of ministry.
GC-3	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	License for storage of LDO has been granted by department of Explosive, Nagpur on 16.10.2018 and is valid upto 31.12.2026. Sulphur content in the liquid fuel does not exceed 0.5%. On site disaster management plan has been prepared and implemented.
GC-4	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Being Complied. Being complied. Ground water analysis report is attached as Annexure-B
GC-5	Monitoring of surface water quantity and quality shall also be regularly conducted, and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Being complied Surface water analysis report is attached as Annexure-C

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GC-6	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid and sanitation arrangements have been made for the drivers and other contractors. Toilets and drinking water arrangement are being made at main plant area.
GC-7	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/earmuffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.	Noise level monitoring being done. Noise level monitoring report is attached as Annexure-D Requisite Personal protective equipment being ensured, and training imparted, and requisite training being imparted. Periodical examination of workers being carried out working in high noise area.
GC-8	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	AAQM at specified 04 locations is being carried out regularly. AAQM report is attached as Annexure-E . Online Ambient Air Quality station have already been Installed (in consultation with pollution control board) and commissioned and all are operational.
GC-9	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Housing of construction labour (as applicable) with all necessary infrastructure and facilities are being provided within the site by concerned agencies as per contract.
GC-10	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular	Complied.



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	language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	
GC-11	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zila Parisad/ Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	All three Units in operation. NPGCL Nabinagar is now merged with NTPC Ltd. named as Nabinagar Super Thermal Power Station (NSTPS). Data uploading on NTPC website is in progress.
GC-12	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the Cell shall directly report to the head of the organization.	Complied.
GC-13	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, SPM, RSPM (PM _{2.5} & PM ₁₀), SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Complied.
GC-14	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State	Being complied. Environmental Statement sent to MOEF&CC and BSPCB on dated 22.09.2022.



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	Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	
GC-15	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Noted. Compliance report shall be submitted regularly. All three Units in operation. NPGCL Nabinagar is now merged with NTPC Ltd. named as Nabinagar Super Thermal Power Station (NSTPS). Data uploading on NTPC website is in progress.
GC-16	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six-monthly basis. Criteria pollutants levels including NO _x (from stack & ambient air) shall be displayed at the main gate of the power plant.	Compliance report shall be submitted regularly. EIA/EMP has been submitted to Regional office. Display Board has been installed at the main Gate of the Power Plant. Real Time Environment Monitoring data is being displayed.
GC-17	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. This cost shall be included as part of the	An amount of Rs. 801.3 Crores have been earmarked in the Feasibility Report for Nabinagar STPP towards environmental measures like ESP (102.9 cr), Chimney (95.45 cr), Cooling System

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	project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	(164.32), Ash Handling and Disposal (413.9cr), Effluent Treatment (12.49 cr), Recycle and Reuse, Sewage Treatment (1.0cr), Dust Extraction and Suppression System (2.66 cr), Fire Fighting and Safety, Green Belt and Afforestation etc. (6.0 cr), DM Plant and treatment (1.5 cr), Env. Lab equipment (1.0 cr) Various system are under implementation at site.
GC-18	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Investment approval for the project was accorded by Board of NTPC Limited on 21.01.2013. The first, second and third Unit has been commissioned and commercial operation has been started from 6 th Sep'2019, 23 rd July'2021 and 01 st Jun'2022 respectively.
GC-19	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.	Shall be extended as and when required.
ADDITIONAL CONDITIONS (J-13012/127/2007-1A.II(T))		
AC-1	The details of technology selection for adoption of FGD for control of SO _x shall be submitted. In case of wet FGD, details regarding source of limestone, impact of transportation, handling storage and disposal of Gypsum including land requirement shall be submitted.	Details submitted with previous compliance report dt 31.03.20
AC-2	In case SCR/SCNR is not adopted, an alternate technology analysis and justification of technology selection for NO _x reduction is to be submitted.	For NO _x reduction system: The boiler is of sliding pressure supercritical, once-through type, utilizing a Tangential Firing System for NO _x control in addition with SOFA and COFA system.
AC-3	Progress of construction power plant till its commissioning, installation of FGD and De-Nox measures shall be submitted as a part of six-monthly compliance reports.	Details of progress report attached as Annexure-F .



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AC-4	Emission norms and specific water consumption as per ministry norms dated 07.12.2018 and 28.12.2018 shall be complied with. As committed, Flue gas desulphurization unit and selective catalytic reactor to control SO ₂ and NO _x respectively shall be installed.	Being complied. FGD erection is under progress.
AC-5	Water requirement for FGD to be installed in the existing units has to be provided. Therefore, water balance to be modified based on the water requirement for whole units including a plan on ZLD.	Water balance diagram has been submitted along with previous compliance report.
AC-6	The stack emissions (min, max, average and 98 percentile) shall be submitted for the period of six months in the compliance report. Further daily water withdrawal, consumption, power generation and average PLF shall be submitted. The specific water consumption per MWhr shall be calculated based on water consumption shall be submitted in the compliance report.	Stack emission data for compliance period is enclosed at Annexure-G . Water consumption data for compliance period is enclosed at Annexure-H .
AC-7	The plant shall operate only after meeting the new emission norms as notified by ministry. Else, extension of timelines from CPCB for implementing pollution control measures for meeting new norms shall be obtained and copy of the same shall be submitted to Ministry.	SPM is within emission norm. SO _x emission shall be within stipulated norms after FGD installation and commissioning.

(K.D. Pandey)
DGM (EMG)

Head of Station
Nabinagar Super Thermal Power Station,
Nabinagar

बी० वी० नागेश्वर राव / B.V. Nageswara Rao
मुख्य महाप्रबंधक / Chief General Manager
नबीनगर सुपर थर्मल पावर स्टेशन
Nabinagar Super Thermal Power Station