

Date: 15/10/2013

The Chief Conservator of Forests (Central),
Kendriya Sadan, 4th Floor,
E7F Wing1 II Block,
Koramangala,
BANGALORE-560034

Sir,

Sub: Environmental Clearance granted for NCC Power Projects' Limited (NCCPPL) for establishing a Coal based Thermal Power Plant, 1320 MW (2X660MW) at Painampuram of Muthukur Mandal Varakavipudi and Shivarampuram of TP Gudur Mandal in SPS Nellore District, A.P - Submission of report on Status of Compliance Conditions of Environmental Clearance – Reg.

Ref: MoEF & Letter No.J13012/76/2009-1A.II (T) dated 18/05/2011.

As specified in the Environmental Clearance by MoEF, for 1320MW NCC Power Projects Ltd., Compliance Report (up to September 2013) is enclosed for information please.

Thanking you,

Yours faithfully,
For NCC Power Projects limited,


Authorized Signatory

Encl: As above

CC: Ministry of Environment and Forest
Parayavaran Bhawan, CGO Complex,
Lodhi Road, New Delhi-110003

| A | Specific Conditions | Status of Compliance of Conditions – October 2013 |
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| (i) | Environmental clearance is subject to obtaining CRZ clearance (as applicable) for permissible activities in CRZ area | <ul style="list-style-type: none"> CRZ clearance issued vide letter no (F.No 11-44/2011-IA-III) Dated: 09th April 2012 has already been submitted. |
| (ii) | In case source of fuel supply is to be changed at a later stage for the proposed 2x660 MW units now proposed to be run on imported coal from Indonesia, the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for allowing the change. In such a case the necessity for re-conducting public hearing may be decided by the Ministry in consultation with the Expert Appraisal Committee | <ul style="list-style-type: none"> Amended EC issued by MoEF Govt. Of India on the name of NCC Power Projects Ltd for use of 70:30 blend coal has already been submitted vide our letter dated 11th April 2011 |
| (iii) | The project proponent shall examine in detail the possibility to adopt NIOT technology of desalination plant using Low Temperature Thermal Desalination (LTTD) process. In case the same is not feasible detailed explanation shall be submitted to the Regional Office of the Ministry. | <ul style="list-style-type: none"> Report on LTTD technology prepared by TCE Consulting Engineers Limited has been submitted to MOEF. As per the report, LTTD technology is not feasible for large size capacity thermal power plants. |
| (iv) | Local employable youth shall be identified and trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time. | <ul style="list-style-type: none"> A Batch of 22 members of Varakavipudi and Pynapuram panchayaths were sponsored by NCCPPL. Completed 3 months short term technical training in the trades of “Bar Bending, Electrician, Welding” at Soma-Swarnabharath Technical Training Institute, Nellore, Among them 11 members passed in the trades and were provided employment in the project activities of the NCC. Trainings were provided for women in the vicinity of project area in co-ordination with Swarnabharath trust continuously. A 45 days Training programme on fabric painting was started in the SC hamlet of village Pynapuram for 23 members. NCC power project committed to develop the surrounding communities to develop on their own by providing opportunities in project construction |

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| | | <ul style="list-style-type: none"> • Around 325 No's were provided employment(skilled, semi skilled ,and un skilled) and surrounding villagers were provided livelihood by engaging them in green belt activities, housekeeping, security services, construction activities, other services, and providing them contracts in some of the project activities to benefit the surrounding communities |
| (v) | <p>The project proponent shall establish at its own costs a Fish Landing Platform, Ice Plant etc. and shall accordingly submit to the Regional Office of the Ministry and the Fishery Department of the State Govt. a detailed plan and implementation schedule. The project proponent shall also prepare an action plan for implementation. Regarding providing sustainable fishing option for fishermen community in the area.</p> | <ul style="list-style-type: none"> • As per the letter received from the Assistant Director- Fisheries department, Nellore District A.P, there are no inland & marine fishermen in the project vicinity (3km). Copy of letter is already submitted vide our letter dated 11th April 2011. |
| (vi) | <p>An endowment of Fishermen Welfare Fund shall be created out of CSR component for specific activities to be finalized within three months for upliftment of the lives of fishing community in the region. Creation of facilities such as Fish Drying Platforms /Ice plant can as mentioned at clause (v) above can form a part of the scheme.</p> | <ul style="list-style-type: none"> • Refer point (v) above |
| (vii) | <p>The project proponent shall not hamper the vocation of the fishing community in the area and it shall be ensured that local fishing community shall be allowed to carry out their vocation.</p> | <ul style="list-style-type: none"> • There is no hampering of fishing activities due to development of the Project |
| (viii) | <p>Existing Port facility in the region shall be utilized for import of coal instead of setting up individual jetty to avoid disruptions in coastal and inland ecology.</p> | <ul style="list-style-type: none"> • Krishnapatnam port is proposed to be used for importing of coal. The coal from the Port will be transported by means of a closed conveyor and hence there will be not be any disruptions in coastal and inland ecology. |
| (ix) | <p>Possibility for setting up transit storage within plant site for temperature control of effluent before discharge to the sea shall be carried out and details submitted within three months of starting construction activities to the</p> | <ul style="list-style-type: none"> • Guard pond has been proposed in the plant layout with transit blow down tank. ETP scheme details are enclosed as Annexure - I |

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| | Ministry | | |
| (x) | 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. | • Noted | |
| (xi) | No waste (effluent) shall be discharged into canal systems, backwaters, marshy areas and the sea (as applicable) without treatment. | • Noted | |
| (xii) | The marshy areas in the vicinity (if any) shall not be disturbed. | • Noted | |
| (xiii) | Intake shall be from deep sea to avoid aggregation of fish and other marine creatures | • Noted | |
| (xiv) | It shall be ensured that no contamination of soil, ground and surface waters (canals & village pond) with sea water in and around the project sites takes place. Necessary preventive measures for spillage from pipelines, such as lining of guard pond used for the treatment of outfall before discharging in to the sea and surface RCC channels along the pipelines of outfall and intake should be adopted. | • Noted | |
| (xv) | Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken | <ul style="list-style-type: none"> • M/s BS Envitech has been appointed as consultant for Monitoring Environmental Parameters & Submission of periodical Report to MoEF & APPCB. • Relevant Environment parameters monitoring Data is enclosed as Annexure-II (CD) | |
| (xvi) | A stack of 275 m height shall be provided with continuous online monitoring equipments for SO _x , NO _x and PM2.5 and PM10. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis. | • Noted and being complied. | |
| (xvii) | Sulphur content in the imported coal shall not exceed 0.60% | • Noted | |
| (xviii) | High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not | • Noted and design of ESP has been taken care accordingly. | |

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| | exceed 50 mg/Nm ³ | | |
| (xix) | Provision for FGD shall be provided for future use as and when required | | <ul style="list-style-type: none"> • Space provision has been considered in the layout |
| (xx) | 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 | | <ul style="list-style-type: none"> • Noted and dust extraction systems 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 are included. |
| (xxi) | A detailed coal analysis from a reputed lab for all contracted coal sources for the project shall be submitted within three months . | | <ul style="list-style-type: none"> • Indigenous coal- Contracted mine source is yet to be finalised by Ministry of Coal Govt. of India. • Imported coal- coal production would commence from March 2014 and lab test reports will be submitted immediately thereafter. |
| (xxii) | Utilization of 100% Fly Ash generated shall be made from 4 th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time. | | <ul style="list-style-type: none"> • Noted and 100% Fly Ash will be utilized from 4th year of operation of the plant. Regular compliance report shall be submitted after commencement of Power Generation. |
| (xxiii) | 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 high concentration slurry form. 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. | | <ul style="list-style-type: none"> • Noted for Compliance. |
| (xxiv) | Ash pond shall be lined with HDP/LDP 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 | | <ul style="list-style-type: none"> • The ash disposal area shall be lined with HDPE/LDPE lining of suitable thickness (150 to 200 microns) on a sand bed of 100mm thickness, followed by layer of mortar and brick lining on the HDPE/LDPE liner, for protecting the liner. A typical schematic of the proposed HCSD system along with details of the liner has already submitted vide out letter dated 11th April 2011 |
| (xxv) | For disposal of Bottom Ash (<i>if proposed to be undertaken</i>) in abandoned mines 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 | | <ul style="list-style-type: none"> • Will be disposed off to ash pond through HCSD system. NCCPPL has made provision to adopt High Concentration Slurry Disposal system. |

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| | Pollution Control Board well in advance before undertaking the activity | |
| (xxvi) | Closed cycle cooling system shall be provided. The Effluents shall be treated as per the prescribed norms. COC of at least 1.25 shall be adopted. | <ul style="list-style-type: none"> • Noted for Compliance. |
| (xxvii) | 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. Tree density shall not less than 2500 per ha with survival rate not less than 75 % | <ul style="list-style-type: none"> • Green Belt Development Plan: An area of 315 acres is being developed under green belt to improve aesthetics, control of dust and noise pollution. A curtain of trees all around the power plant complex has been envisaged as follows: <ul style="list-style-type: none"> ▪ Primary Zone: This zone will be nearest one to the emission source, where the ambient pollutant concentration is higher. The trees planted here shall have dense spreading canopy. The trees will be close set with spacing of 2-3 mtrs between trees and width of this zone will be 15-30 mtrs. ▪ Secondary Zone: Outer to the primary zone 15-50 mtrs width wide strip of Land will be planted with trees which are moderately tolerant to the pollutants but are endowed with fast growing, Dense foliage canopy. ▪ Curtain Zone: All along the boundary power station complex, a 20-100 meter width land strip will be planted with trees which are tall in nature and ever green in habit. • An area of 50.00 acres was planted with native species during 2012-13. • More CO2 consuming indigenous varieties are being planted in the Green belt areas. • This area is being protected and maintained within the boundary layout. • The present survival percent is around 95.00. • For the year current year i.e. 2013-14, the area earmarked is 145.00 acres. Nearly 10.00 acres have been planted so far and the planting is presently under progress. • Peripheral planting along inside of the compound wall has been taken up and completed 1.00 km length. • Scientific methods are being adopted for raising and maintenance |

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| (xxvii i) | <p>A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months from the date of issue of this letter</p> | <p>of Green belt.</p> <ul style="list-style-type: none"> Local people of the surrounding villages are being engaged for plantation activities under the direct and indirect employment. R&R is not applicable for this project as there is no re-settlement involved. |
| (xxix) | <p>An amount of Rs 27.3 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 5.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation</p> | <ul style="list-style-type: none"> CSR activities are undergoing as per the road map Currently the company is undertaking various CSR activities as under: <ol style="list-style-type: none"> Medical dispensaries which are regularly operating in Mandapam, Pynapuram, and Varakavi pudi Panchayath. Veterinary doctor engaged and Medical assistance extended to all villagers of the project area. Farmers were given suggestions by doctors to protect the live stock. The centre is presently operating at Varakavipudi Panchayath Distribution of Educational Kits to the school children in the vicinity villages. Organising medical camps for pregnant women in Mandapam, Pynapuram, and Varakavi pudi Panchayath on a regular basis Drinking water distribution line in Pynapuram village - RO drinking water plant (1000 litre/hr) commissioned at Varakavipudi Panchayath and supplying safe drinking water to villagers. Drinking water through tankers supplied to 8 villages of Mandapam Panchayaths and also water supply extended to Villages of Ananthapuram, Sivarampuram and Varakavipudi Women Empowerment - About 20 women were identified and trained in fabric painting under the supervision of Swarna Bharati Foundation. Similar training programme is planned in tailoring & allied activities Infrastructure facilities for schools developed by constructing school compound walls, Kitchen Blocks in surrounding Villages. An exclusive Evening tuition centre with qualified teachers is running at Varakavipudi school to extend the |

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| | | <p>educational support to all school children of the surrounding Villages. Laying of 2.5 KMS Road to Mandapam katepalli up to sea coast famous shivatemple became useful for pilgrims,communities and fisherman</p> <p>7) RO drinking water plant (2000 litre/hr) commissioned at Mandapam Panchayath and supplying safe drinking water to villagers and Drinking water through tankers supplied to 8 villages of Mandapam Panchayath and also water supply extended to Villages of Ananthapuram,Sivarampuram and Varakavipudi.</p> <p>8) Lying of internal roads for Edururu pattapalem and Katepalli village. An exclusive Evening tuition centre with qualified teachers is running at Mandapam Panchyat to extend the educational support to all school children of the surrounding Villages.</p> |
| (xxx) | <p>As part of CSR programme the company shall conduct need based assessment for the nearby villages 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 besides 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. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.</p> | <ul style="list-style-type: none"> • Refer point (xxix) above |
| (xxx1) | <p>It 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</p> | <ul style="list-style-type: none"> • CSR activates along with Road map for implementation has been submitted to CCF (Central), MoEF & Director, MoEF vide the letter dated 14/03/2011. Copy of the same was already submitted vide our letter dated 11th April 2011. Details are furnished at Point No. xxix above |

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| B | General Conditions: | |
| (i) | 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. | <ul style="list-style-type: none"> • Noted. • Treated effluents conforming to the prescribed standards will only be re-circulated and reused within the plant • Effluents and storm water do not get mixed. A separate storm water drain will be provided all along the boundary of the power plant. • Final WBD and ETP scheme have already been submitted. • Sewage treatment plant has been considered and the treated sewage will be used as manure for greenbelt/ plantation. |
| (ii) | A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation. | |
| (iii) | A well designed rain water harvesting system shall be put in place within six months before commissioning of the plant, which shall comprises of rain water collection from the built up and open area in the plant premises. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology and details shall be furnished | <ul style="list-style-type: none"> • Noted. Details of rain water harvesting system will be furnished during detail engineering stage |
| (iv) | 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 | <ul style="list-style-type: none"> • Details of the same will be furnished during detail engineering stage • Studies on fire due to spontaneous combustion of coal dust has been furnished in EIA report (Chapter 7 Clause 7.3.3.1) |
| (v) | 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 | <ul style="list-style-type: none"> • NOC from CCE Nagpur will be obtained at appropriate time. • Disaster Management Plan- has already been furnished in EIA report (Chapter 7 Clause 7.3.3.2) |

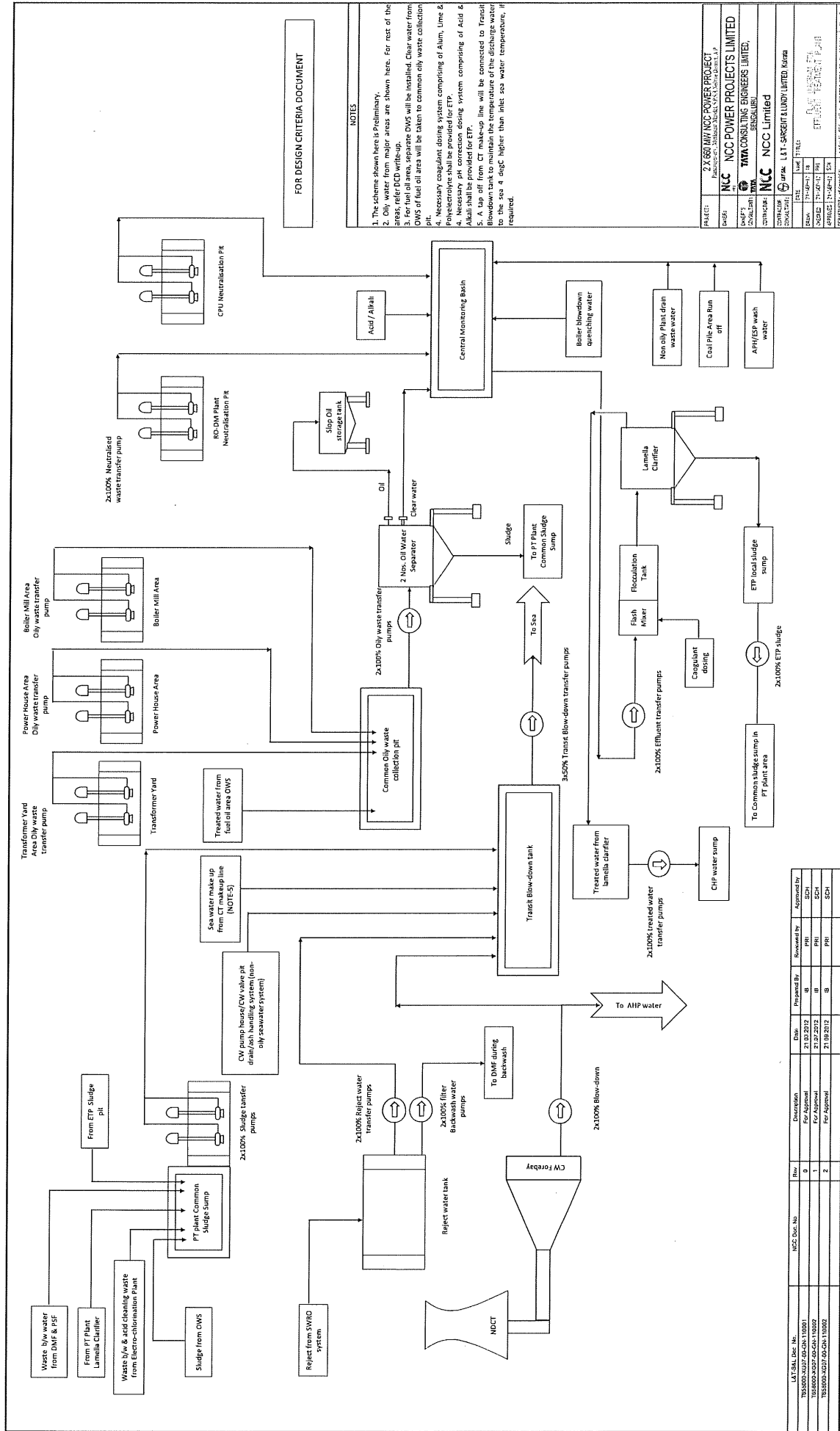
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| (vi) | Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, 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 | <ul style="list-style-type: none"> Monitoring Protocol of ground water around the ash pond is already submitted vide our letter dated 11th April 2011 |
| (vii) | First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase | <ul style="list-style-type: none"> Dedicated First Aid Centre with qualified medical person available round the clock at site to look after the welfare of workers and families of workers staying at labour colony. Ambulance service is provided at site for taking care of health of workmen on 24 Hrs basis. |
| (viii) | Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dB A. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs 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. | <ul style="list-style-type: none"> Noted and Noise levels of plant equipment will be designed according to the standards |
| (ix) | Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM 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 | <ul style="list-style-type: none"> Noted for compliance. |

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| (x) | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project | <ul style="list-style-type: none"> • Labour camps were made with all facilities like drinking water, sanitation facilities, education for children and the same is well monitored by our administration department. |
| (xi) | 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 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 | <ul style="list-style-type: none"> • Complied. Copies of advertisement given in Local News Papers are already furnished vide our letter dated 11th April 2011 |
| (xii) | A copy of the clearance letter shall be sent by the proponent to concerned 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 | <ul style="list-style-type: none"> • Complied. Acknowledgement has been furnished vide our letter dated 11th April 2011 |
| (xiii) | A dedicated Environment management Cell with suitable qualified personnel constituting of Marine Biologist and an ecologist shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization | <ul style="list-style-type: none"> • Complied. |
| (xiv) | 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 | <ul style="list-style-type: none"> • Will be implemented. |

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| | criteria pollutant levels namely; SPM, RSPM, 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 | |
| (xv) | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. | <ul style="list-style-type: none"> • Complied |
| (xvi) | The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State 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 EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail | <ul style="list-style-type: none"> • Will be taken up after commissioning of the plant. |
| (xvii) | 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. | <ul style="list-style-type: none"> • Corporate policy displaced at prominent places at site. • BS Envitech monitoring reports are submitted to APPCB/MoEF • Monitoring during construction is under progress and greenbelt development is already taken-up. • We are submitting timely compliance reports to Regional MoEF office • Status of the compliance of the Environment Clearance conditions is also available at company Website i.e. www.nccinfra.com |
| (xviii) | 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 | <ul style="list-style-type: none"> • Noted & complied |

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| | <p>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 NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.</p> | |
| (xix) | <p>Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the 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.</p> | <ul style="list-style-type: none"> • Cost estimates for provision of environmental protection measures have given in chapter -6 of EIA report |
| (xx) | <p>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</p> | <ul style="list-style-type: none"> • The Company has signed Common Loan Agreement with REC (Rural Electrification Corporation Ltd), PFC (Power Finance Corporation Ltd) and ICICI Bank Ltd on 4th June 2011 and 1st disbursement has been drawn. • Site developmental works have been commenced from 26th June 2011 and Construction works are under progress • COD of plant would be 42 months (Unit-1) and 45 months (Unit-2) from date of NTP i.e. 10.02.2012. |
| (xxi) | <p>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</p> | <ul style="list-style-type: none"> • Noted |

ANNEXURE - I



FOR DESIGN CRITERIA DOCUMENT

NOTES

- The scheme shown here is Preliminary.
- Only water from major areas are shown here. For rest of the areas, refer DCD write-up.
- For fuel oil area, separate DWS will be installed. Clear water from DWS of fuel oil area will be taken to common oily waste collection pit.
- Necessary consultant dosing system comprising of Alum, Lime & Potassium Permanganate will be provided for the system.
- Necessary pH correction dosing system comprising of Acid & Alkali shall be provided for ETP.
- A tap off from CT make-up line will be connected to Trench Blowdown tank to maintain the temperature of the discharge water to the sea 4 degC higher than inlet sea water temperature, if required.

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| PROJECT: | 2 X 660 MW COAL POWER PROJECT |
| CLIENT: | NCC NCC POWER PROJECTS LIMITED |
| DESIGNER: | TVA CONSULTING ENGINEERS LIMITED |
| CONTRACTOR: | NCC NCC Limited |
| DATE: | 21/03/2012 |
| SCALE: | AS SHOWN |
| REVISION: | 1 |
| APPROVED: | 21/03/2012 |
| DATE: | 21/03/2012 |
| BY: | |
| FOR: | |
| DATE: | 21/03/2012 |
| BY: | |
| FOR: | |
| DATE: | 21/03/2012 |
| BY: | |
| FOR: | |

| Rev | Description | Date | Proposed By | Reviewed By | Approved By |
|-----|--------------|------------|-------------|-------------|-------------|
| 0 | For Approval | 21/03/2012 | IB | PH | SCH |
| 1 | For Approval | 21/03/2012 | IB | PH | SCH |
| 2 | For Approval | 21/03/2012 | IB | PH | SCH |

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