

CHETTINAD POWER CORPORATION PRIVATE LIMITED (CPCPL)
Erukkattanchery, Khazhiappanallur, Manickapangu Villages, Tarangambadi Taluk,
Nagapattinam District, Tamilnadu

ENVIRONMENTAL CLEARANCE (EC) COMPLIANCE REPORT (Apr. '17 – Sept. '17)

*[EC granted by MoEF vide J-13012/89/2009-IA.II (T) dated 20.01.11, 13.06.2013 & 23.08.2013
for 2 X 660 mw Power Plant (Super-Critical Technology)]*

(Establishment Activities are yet to be commenced)

SPECIFIC CONDITIONS

S.No	Conditions Stipulated By MoEF	Compliance Status
i.	CRZ clearance for permissible activities in CRZ area (as may be applicable) shall be obtained before starting construction activity.	Environmental and CRZ Clearance obtained from Ministry of Environment & Forests vide F.No.11-147/2010-IA-III dated 02.06.11.
ii.	Permission from Archaeology Survey of India (ASI) shall be obtained (as may be applicable) for locating the plant in the vicinity of protected monument / structures.	No Objection Certificate received from Department of Archaeology, Tamilnadu vide Lr.No.C1/3461/2010-2 dated 12.07.2010. However, the Department of Archaeology & Competent Authority, Tamilnadu confirmed vide letter No. D3/781/2012 dated 02.11.2012 that no NOC is required as the proposed project site falls beyond the regulated distance as per Ancient Monuments and Archaeological sites and Remains (Amendment & Validation) Act, 2010. A copy of the letter already submitted to Regional Office of MoEF & CC, Bengaluru.
iii.	Prospective plan (vision document) for the site showing future expansion shall be formulated and submitted to the Ministry within six months.	As and when the decision on future expansion is taken, the prospective plan will be submitted to the MoEF & CC.
iv.	The Government of Tamilnadu's restriction of activities related to River Cauvery or any other river (as may be applicable) shall be strictly adhered to.	Our project is beyond a distance of 5 km from the River Cauvery stipulated by Government of Tamilnadu vide G.O.No.213 & 127 The same has been certified by IRS, Anna University, Chennai, Tamilnadu.

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v.	The structure of the power plant shall be designed in such a way that it can withstand the impact of Tsunami or Cyclone.	This condition insisting on protection of structures from Tsunami is noted for compliance and the same will be ensured while finalizing the design and engineering for the Plant.
vi.	In case source of fuel supply is to be changed at a later stage for the proposed 2x660 MW (Super-Critical Technology) 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.	The guidelines on the procedure to be followed to change the source of coal supply are noted. Any proposed change in the source of coal supply will be brought to the notice of MoEF & CC well in advance and its concurrence will be taken for the same.
vii.	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.	During the process of finalization of the Design & Engineering, the recommendation of MoEF & CC on the adoption of NIOT technology of desalination plant using Low Temperature Thermal Desalination (LTTD) process, will be considered. A detailed explanation will be submitted to the Regional Office of MoEF & CC, Chennai , if it is found to be not feasible to adopt NIOT Technology for desalination.
viii.	Sulphur and ash contents in the imported coal to be used in the project shall not exceed 0.6 % and 8.8 % respectively at any given time. The calorific value of the imported coal shall not be less than 5000 kcal/kg. In case of variation of coal quality at any point of time, fresh reference	The limits of Sulphur & Ash contents and the minimum calorific value of imported coal stipulated by MoEF & CC will be followed. In case of variation of coal quality at any point of time, a fresh reference will be made to MoEF & CC for suitable amendments to Environmental

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	shall be made to MOEF for suitable amendments to environmental clearance condition, wherever necessary.	Clearance condition, wherever necessary.
ix.	A stack of 275 m height shall be provided with continuous online monitoring equipments for SO _x , NO _x and Particulate Matter (PM _{2.5} & PM ₁₀). Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	<p>Guidelines on stack height are noted for compliance and the same will be ensured while finalizing the design and engineering for the Plant.</p> <p>On commissioning of Power Plant, the continuous online monitoring equipments for the Ambient Air Quality parameters like SO_x, NO_x and Particulate Matter (PM_{2.5} & PM₁₀), will be provided. For Stack Emission Monitoring also, the continuous online monitors will be provided. Exit velocity of flue gases will not be less than 22 m/sec. Mercury emissions from stack will also be monitored on periodic basis.</p>
x.	No ground water shall be extracted for use in operation of the Power Plant even in lean season.	<p>Sea water, after treatment, will be used for various purposes in the Power Plant.</p> <p>No ground water will be extracted for use in the operation of the Power Plant even in lean season.</p>
xi.	Hydro-geological study of the area shall be reviewed annually and report submitted to the Ministry. 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.	<p>As recommended by MoEF, the annual review of Hydro-geological study of the area will be taken up after commencing project establishment activities. The report will be submitted to MoEF & CC.</p> <p>The detailed surface drainage study carried out by an expert in this field, Mr K Jayachandran, Retired Special Chief Engineer PWD, Tamilnadu and the recommendations made by him have been accepted by PWD. The proposal submitted</p>

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		<p>based on the above study for diversion of man-made surface drains passing through the project site has also been approved by PWD. The copy of the Surface Drain Study Report has already been submitted to MoEF &CC.</p> <p>The natural water drainage passing through the premises will not be disturbed.</p>
xii.	COC of atleast 1.25 shall be adopted.	Guideline on COC is noted for compliance and the same will be taken care of while finalizing the design and engineering for the Plant.
xiii.	Intake shall be from deep sea to avoid aggregation of fish and other marine creatures.	Guideline on location of intake is noted for compliance and the same will be ensured while finalizing the design and engineering for the Plant.
xiv.	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 Ministry.	<p>The proposed Cooling Tower and the Guard Pond will ensure that the temperature of the discharge water to the sea will be below the prescribed standards.</p> <p>The details will be submitted within three months of finalizing the design & engineering of the Plant to MoEF & CC.</p>
xv.	The marshy areas in the vicinity (if any) which may hold large quantities of water shall not be disturbed. Continuous monitoring of marine biology shall be undertaken by an institute of repute.	There is no marshy area found nearby proposed site. Continuous monitoring of marine biology is being carried out by the Centre of Advanced Science in Marine Biology, Annamalai University, Tamilnadu, engaged by CPCPL.
xvi.	There should not be any contamination of soil, ground and surface waters (canals & village pond) with sea water in and around the project sites. In other words necessary preventive	Necessary measures to prevent 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

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	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.	the pipelines of outfall & intake will be ensured by addressing these points while finalizing the design and engineering for the Plant. Hence, there will not be any contamination of soil, ground and surface waters (canals & village pond) with sea water in and around the project site.
xvii.	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.	Additional soil for leveling of the proposed site will be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.
xviii.	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 Government 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.	The project establishment activities are yet to be commenced. At the time of finalizing the plan for the execution of project, the welfare activities for the Fishermen will also be finalized in consultation with the local fishermen and the local authorities, to ensure sustainable fishing option for fishermen community in the area and the same will be submitted to the Regional Office of MoEF & CC, Chennai and the Fishery Department of the State Government.
xix.	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.	Fishermen Welfare Fund will be earmarked out of CSR Budget for upliftment of the lives of fishing community in the region. The project establishment activities are yet to be commenced. At the time of finalizing the plan for the execution of project, the welfare activities for the Fishermen will also be finalized in consultation with the local fishermen and the local authorities, to cater to the needs of the nearby fishing community.

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xx.	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.	The project proponent will not hamper the vocation of the fishing community in the area and the local fishing community will be allowed to carry out their vocation without any hindrance.
xxi.	FGD shall be installed as committed by the project proponent before commissioning of the plant.	FGD will be installed as committed before commissioning of the plant.
xxii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission from the proposed plant and cement grinding unit (as applicable) does not exceed 50 mg/Nm ³ .	While finalizing the design and engineering for the proposed Power Plant the requirement of all Air Pollution Control Equipment will be considered to ensure effective control of emissions. Accordingly, High Efficiency Electrostatic Precipitators (ESPs) will be installed to ensure that particulate emission from the proposed Power Plant does not exceed the limit stipulated.
xxiii.	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.	Adequate and appropriate dust extraction system such as cyclones/ bag filters/water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas will be provided before commissioning the Power Plant.
xxiv.	Utilisation 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.	100% utilization Fly Ash in our group Cement Plants nearby, will be ensured right from the day one of power generation. Status of implementation will be reported to the Regional Office of the Ministry at Chennai from time to time.

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xxv.	<p>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 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.</p>	<p>Fly Ash will be collected in dry form and storage facility (silos) will be provided for the same. 100% utilization Fly Ash in our group Cement Plants nearby, will be ensured right from the day one of power generation.</p> <p>In case of emergency , the unutilized Fly Ash, will be disposed off in the ash pond in the slurry form. The Bottom Ash will also be disposed off in the ash pond in the slurry form.</p> <p>Mercury and other heavy metals (As,Hg, Cr, Pb etc.) will be monitored in the bottom Ash on commissioning the Power Plant.</p> <p>There will not be any effluent emanating from the existing ash pond.</p> <p>No ash will be disposed off in low lying area.</p>
xxvi.	<p>Ash pond shall be lined with HDPE/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.</p>	<p>Ash pond will be lined with HDPE/LDPE lining or any other suitable impermeable media so that no leachate takes place at any point of time.</p> <p>Adequate safety measures will also be implemented to protect the ash dyke from getting breached.</p>
xxvii.	<p>Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local Panchayat.</p>	<p>Fugitive emission of Fly Ash will be controlled so that no agricultural or non-agricultural land is affected.</p> <p>Damage to any land, if any, will be mitigated and suitable compensation will be provided in consultation with the local Panchayat.</p>

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xviii.	To absorb the ground level pollutants, to act buffer against strong winds arising out of tropical cyclones/ storms, to reduce heat load and ameliorate environment, there is a need for shelterbelts / greenbelts / tree cover along the coastline, bunds around marshy areas, roadsides, around the project boundaries, around village boundaries, ash dykes, railway lines, around protected monuments, forts, waste places, School Campuses and other vacant lots. Coconut plantations can be developed along the coastline and near villages, Schools and Forts. Strands of <i>Casuarinaria</i> should also be developed on some dunes and along coasts. Bamboos, neem and other native trees should be planted in and around at the villages.	Guidelines on greenbelt development are noted for compliance.
xxix.	To meet the expenditure of these plantations (stated above) and their management, a common Green Endowment Fund should be created by the project proponents out of EMP budgets. The interest earned out of it should be used for the development and management of green cover of the area.	Common Green Endowment Fund will be created out of EMP Budget. The interest earned out of it will be used for the development and management of green cover of the area.
xxx.	Green Belt consisting of three 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 80 %.	Guidelines on greenbelt development are noted for compliance.

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xxxi.	Local employable youth shall be 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.	Local employable youth will be trained in technical skills to improve their employment potential. After training, based on the requirement of the Plant, eligible youth will be given an employment opportunity in the Plant. The action taken report and details will be submitted to the Regional Office of the MoEF & CC, Chennai and the State Government Department concerned from time to time.
xxii.	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	On commencement of project activities, the community developmental activities will be taken up for the neighbouring villages. Supply of free potable drinking water to the nearby villages and schools will be undertaken.
xxiii.	The project proponent shall ensure that land losers are not deprived of sustainable livelihood or that they become non-eligible for gainful employment. The project proponent shall also formulate sustainable livelihood scheme for landless and marginalized section of society (such as landless farmers) in the area who are directly or indirectly affected due to power project.	The land losers will not be deprived of sustainable livelihood or denied any gainful employment. The sustainable livelihood scheme will be formulated by CPCPL for landless and marginalized section of society (such as landless farmers) in the area who are directly or indirectly affected due to power project.
xxiv.	An amount of Rs 28.90 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 5.80 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be <i>submitted</i> within one month along with road map for <i>implementation</i> .	Guidelines of MoEF and the Companies (Corporate Social Responsibility Policy) Rules, 2014, as applicable, will be followed. Details of the activities to be undertaken will be submitted within one month of commencing construction activity of the project along with road map for implementation.

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xxxv.	<p>While identifying 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 programme. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.</p>	<p>While identifying CSR programme, the company will conduct need based assessment for the nearby villages to study the economic measures with action plan which can help in upliftment of poor section of society.</p> <p>Income generating projects consistent with the traditional skills of the people will be taken up by CPCPL.</p> <p>Company will earmark a CSR budget for community development activities and income generating programme. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.</p>
xxvi.	<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>	<p>An in-built monitoring mechanism for the CSR schemes identified will be put in place and annual social audit will be done through the nearest government institute of repute in the region. The project proponent will also submit the status of implementation of the scheme from time to time to Regional Office of MoEF & CC, Chennai , Zonal Office of CPCB, Bengaluru and TNPCB.</p>

Additional Specific Conditions

[Stipulated vide Corrigendum (J-13012/89/2009-IA.II (T) dated 13.06.2013)]

S.No	Condition	Compliance Status
xxxvii	<p>The project proponent shall setup a state-of-the-art environmental laboratory at the project site. The laboratory shall have facilities for long term monitoring of sea water quality and sediment in the impacted zone over and above and ambient air, soil quality analysis of the area. The proponent shall undertake mitigative measures if there are any negative impacts.</p>	<p>The monitoring of marine environment to be carried out by a reputed and recognized institution engaged by CPCPL viz., Centre of Advanced Science (CAS) for Marine Biology , Annamalai University which is having the state-of-the-art environmental laboratory.</p> <p>The monitoring of Ambient Air, Soil Quality Analysis etc will be carried out by a reputed Environmental Laboratory having all testing facilities.</p> <p>Thus, the Laboratory Facility available with the monitoring agency will be used for analysis.</p> <p>The mitigative measures, if any needed, will also be undertaken by CPCPL.</p>
xxxviii	<p>Sea water quality shall be continuously monitored for salinity, turbidity and temperature at selective sites across the impacted zone in order to protect and preserve the marine flora and fauna of the region. Sea water quality and sediments shall also be monitored at selective sites across the impacted zone including estuarine waters. The monitoring data should be uploaded-on the website of the company and also be submitted to Regional Office of the</p>	<p>As stipulated, sea water quality will be continuously monitored for salinity, turbidity and temperature at selective sites across the impacted zone in order to protect and preserve the marine flora and fauna of the region.</p> <p>Sea water quality and sediments will also be monitored at selective sites across the impacted zone including estuarine waters.</p> <p>The monitored data will be uploaded in the company website and will also be</p>

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	Ministry every six months.	submitted to Regional Office of MoEF & CC, Chennai once in six months.
xxxix	Regeneration of degraded mangroves (if any in the study area) shall be undertaken through institutes such as Annamalai University.	There are no mangroves in the study area as confirmed by Centre of Advanced Science (CAS) in Marine Biology, Annamalai University in its report. Hence, this condition is not applicable.
xl	To minimize entrapment of small marine flora and fauna, state of the art low aperture intake screens with high effectiveness for impingement and entrainment and fishnet around intake shall be installed.	At the time of establishing intake facilities, to minimize entrapment of small marine flora and fauna, the state of the art low aperture intake screens with high effectiveness for impingement and entrainment and fishnet around intake will be installed.
xli	Fish catch along the impacted zone of sea should be monitored periodically by the Department of Fisheries, Government of Tamil Nadu.	This is the responsibility of Department of Fisheries, Government of Tamilnadu.
xlii	The waste stream from the FGD should be disposed in an environmentally sound and safe manner.	The waste stream from the FGD will be disposed in an environmentally sound and safe manner.
xliii	Marginalized section of society particularly traditional fishermen communities shall be identified based on 2011 population census data and socio-economic study of the various strata of families such as those carrying out subsistence fishing, commercial fishing etc. shall be carried out and impact on their livelihoods shall be assessed separately. Accordingly, sustainable	At the time of commencement of project establishment activity, the job of identifying the marginalized section of society, particularly traditional fishermen communities, based on 2011 population census data and socio-economic study of the various strata of families, such as those carrying out subsistence fishing, commercial fishing etc., will be taken up. Then, the impact on their livelihoods will

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	welfare scheme/measures shall be undertaken and status of implementation shall be submitted to the R.O. of the Ministry.	be assessed separately. Accordingly, sustainable welfare scheme/measures will be undertaken and status of implementation will be submitted to the Regional Office of MoEF & CC, Chennai, every six months.
xliv	A study on the identification of local employable youth shall be immediately carried out and training shall be imparted for eventual employment in the project itself. The status implementation shall be submitted to the R.O. of the Ministry from time to time.	Study on the identification of local employable youth will be taken up immediately after finalizing Project Execution Plans and training programme on development of technical skills will be organized for the identified youth. The trained youth, meeting the requirement of the Plant will be given an opportunity for employment in the project itself. The status of the same will be submitted to the Regional Office of MoEF & CC, Chennai from time to time.
xlv	Fish catch along the impacted zone of sea should be monitored periodically by the Department of Fisheries, Government of Tamil Nadu. The project proponent shall accordingly take up the matter with the Fishery Dept., Govt. of Tamil Nadu from time to time.	The project proponent (CPCPL) will get in touch with the Department of Fisheries, Government of Tamilnadu from time to time to get the feedback on the action to be initiated by CPCPL , based on the data on fish catch monitored by the Department of Fisheries, to improve the fish catch, in case the monitored data shows decline in the fish catch.
xlvi	Marginalized section of society particularly traditional fishermen communities shall be identified based on 2011 population census data and socio-economic study of the various strata of families such as those carrying out	This condition is the same as the condition number xliii. The action plan given against condition number xliii may kindly be referred.

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	<p>subsistence fishing, commercial fishing etc. shall be identified and impact on their livelihoods shall be assessed separately. Accordingly, sustainable welfare scheme/measures shall be undertaken and status of implementation shall be submitted to the Regional Office of the Ministry every six months.</p>	
xlvi	<p>If dredging is involved it shall be ensured that the quality of sediments at the dumping if any in the sea should be monitored periodically and its impact on benthic fauna, if any, should be mitigated.</p>	<p>If the dredged material is dumped in the sea, the quality of sediments at the dumping location will be monitored periodically and its impact on benthic fauna, if any, will be mitigated by initiating appropriate measures.</p>
xlviii	<p>A long term study of radio activity and heavy metals contents of the coal to be used shall be carried out through a reputed institute once the power plant is commissioned. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.</p>	<p>On commissioning the Power Plant, a long term study of radio activity and heavy metals contents of the coal will be carried out through a reputed institute. Thereafter, a mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) will be put in place.</p>
xlix	<p>Continuous monitoring for heavy metals in and around the ash pond area after commissioning shall be immediately carried out by reputed institutes like ITT, Chennai.</p>	<p>Immediately after commissioning Power Plant, the continuous monitoring for heavy metals in and around the ash pond area will be organised through reputed institutes like ITT, Chennai.</p>

General Conditions

S.No	Condition	Compliance Status/Action Plan
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.	Effluents meeting the operational specification will only be reused. As indicated in the EIA Report, the Cooling Tower Blow Down and SWRO rejects will be discharged to sea after meeting standards prescribed by TNPCB. Arrangements will be made to ensure that effluents and storm water do not get mixed.
ii.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	Sewage treatment plant will be provided and the treated sewage will be used for raising greenbelt/plantation.
iii.	A well designed rainwater harvesting shall be constructed. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of issue of clearance and details shall be furnished to the Regional Office of the Ministry.	Already a detailed study on rainwater harvesting has been carried out. A well designed rainwater harvesting system will be constructed with appropriate rainwater harvesting technology, considering the proposal made in the study report, in consultation with Central Groundwater Authority/ Board.
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.	Details of safety measures to check/minimize spontaneous fires in coal yard and the Plant Layout will be submitted to the MoEF & CC, New Delhi as well as to the Regional Office of the MoEF & CC, Chennai after finalising Plant Layout.
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	Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS will be provided in the plant area in consultation with Department of Explosives, Nagpur. It will be ensured that the Sulphur content in

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	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.	the liquid fuel is less than 0.5%. The EIA Report submitted to MoEF contains Risk Assessment and Emergency Plan.
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.	On commissioning of Power Plant, regular monitoring of ground water level will be carried out by establishing a network of existing wells and installing new piezometers. Monitoring around the ash pond area will be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records will be maintained and will also be submitted to the Regional Office of MoEF & CC , Chennai. The data so collected will be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.
vii.	Monitoring 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.	Monitoring surface water quantity and quality on regular basis will be taken up on commissioning the Power Plant and records will be maintained. The monitored data will be submitted to the MoEF & CC regularly. Further, monitoring points will be located between the Plant and drainage in the direction of flow of ground water and records will also maintained. Monitoring for heavy metals in ground water will also be undertaken.
viii.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	During the construction phase of the project ,the First Aid and Sanitation arrangements will be made available for the drivers and other contract workers.

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ix.	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/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.	Noise levels emanating from turbines will be controlled by providing required acoustic enclosures so that the noise in the work zone is limited to 75 dBA. On commissioning the Power Plant , for people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. will be provided. Workers engaged in noisy areas such as turbine area, air compressors etc will be periodically examined to maintain audiometric record and for treatment for any hearing loss, which will include, shifting to non noisy/less noisy areas, if required.
x.	Regular monitoring of 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.	On commissioning the Power Plant, regular monitoring of ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg will be carried out in the impact zone and records will also be maintained as stipulated. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures will be provided immediately. The location of the monitoring stations and frequency of monitoring will be decided in consultation with TNPCB. Periodic reports will be submitted to the Regional Office of MoEF & CC, Chennai. The data will also be put in the website of the company.
xi.	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	Housing for the construction labourers (as applicable) will be provided within the site with all necessary infrastructure and facilities. The housing will be in the form of temporary structures, which can be removed after the

S.No	Condition	Compliance Status/Action Plan
	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.	completion of the project.
xii.	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 .	<u>The advertisements published on 28.01.2011 in two local newspapers , (in English & Tamil) and (in Tamil, the vernacular language of the locality) widely circulated in the region around the project, within seven days from the date of receipt of this clearance letter, informing the public that the project has been accorded environmental clearance and copies of clearance letter are available with the Taminadu Pollution Control Board and can also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in.</u>
xiii.	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.	Copy of Environmental Clearance sent to Tharangambadi Town Panchayat. The Environmental Clearance letter has been uploaded in the website of CPCPL.
xiv.	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. The status report	Environmental Cell will be created before commissioning the Power Plant, at the project site itself and will be headed by an officer of appropriate seniority and qualification. The head of the Environmental Cell will be directly reporting to the Head of the

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	on the functioning of the Cell shall be submitted to the Regional Office of the Ministry periodically.	Organization. The status report on the functioning of the Cell will be submitted to the Regional Office of the MoEF & CC, Chennai periodically.
xv.	The proponent shall upload the status of compliance of the stipulated EC 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.	<p>The status of compliance of the stipulated EC conditions is being uploaded in the website of the company.</p> <p>The environmental monitoring will be commenced on commissioning the Power Plant. Then, the results of the monitored data will be uploaded in the company website periodically and will simultaneously be sent to the Regional Office of MoEF & CC, Chennai, the Zonal Office of CPCB, Bengaluru and the TNPCB.</p> <p>On commissioning the Power Plant, the criteria pollutant levels namely, RSPM (PM_{2.5} & PM₁₀), SO₂, NO_x in the ambient air and SPM, SO₂, NO_x levels in the stack emissions will be displayed at a convenient location near the main gate of the company in the public domain.</p>
xvi.	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 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	<p>The environment statement for each financial year ending 31st March in Form-V as is mandated will be submitted by the project proponent after commissioning the Power Plant to the Tamilnadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently.</p> <p>The environmental statement will also be put in the website of the company and will be sent to the Regional Office of MoEF & CC,</p>

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	Offices of the Ministry by e-mail.	Chennai by e-mail. The status of compliance of environmental clearance conditions is being uploaded in the website of the company periodically.
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.	Six monthly report on the status of the implementation of the stipulated environmental safeguards is being submitted to the Ministry of Environment Forest and Climate Change , its Regional Office at Chennai, Central Pollution Control Board, Bengaluru and Tamilnadu Pollution Control Board. The status of compliance of the environment of the environmental clearance conditions is being uploaded in the company website periodically and is also being sent by e-mail to the Regional Office of Ministry of Environment Forest and Climate Change, Chennai.
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 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 update the same from time to time at least six monthly basis. Critical pollutants levels	A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan has been submitted to the Regional Office of MoEF & CC , Bengaluru. Any additional information submitted from time to time will also be forwarded to the Regional Office of MoEF & CC at Chennai for their use during monitoring. (A copy of updated EIA can be submitted RO, MOEF, Chennai) The EC compliance status is being uploaded in the company website on a six monthly

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	including NO _x (from stack & ambient air) shall be displayed at the main gate of the power plant.	basis. Critical pollutants levels including NO _x (from stack & ambient air) will be displayed at the main gate of the Power Plant on commissioning the Power Plant.
xix.	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.	Separate funds will be allocated for implementation of environmental protection measures. These cost will be included as part of the project cost. The funds earmarked for the environment protection measures will not be diverted for other purposes and year-wise expenditure will be reported to the MoEF & CC.
xx.	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.	The date of financial closure, final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant will be informed to the Regional Office of MoEF & CC , Chennai.
xxi.	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.	Full cooperation will be extended to the Scientists/Officers from the MoEF & CC / Regional Office of MOEF & C CC at Chennai / CPCB/ TNPCB who would be monitoring the compliance of environmental status.