

**Compliance Status to the conditions stipulated by Ministry of Environment & Forest,
in the Environmental Clearance issued vide letter dated 7th June 2007.**

Sl. No	Conditions stipulated by MoEF	Compliance by DCW
A	Specific Conditions.	
1	The unit will implement all pollution control measures as provided in the EIA/EMP Report.	Complied. As per EIA/EMP reports, all the pollution control measures such as ESP for Cogen Boilers, Triple effect absorption for fugitive chlorine, tail end wet scrubbing to absorb lean HCl fumes. All plant effluent segregated in to low TDS and High TDS streams and exclusive treatment system with Nano and RO plant installed and is being operated effectively.
2	The gaseous emissions (SO ₂ , NO _x , Cl ₂ and HCl) and particulate matter from various process units shall conform to the prescribed norms by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. The stack height shall be as per the CPCB guideline. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Further, the company shall interlock the production system with the pollution control devices.	Complied. We have provided all the air pollution control system and will strictly adhere to the norms stipulated by State Pollution Control Board and Central Pollution Control Board at all times. As instructed, we have provided interlock arrangements with alarm system for the chlorine in the hypo vent and connected with the production system.
4	For the control of air emission from the Captive power Plant, Electro Static Precipitator with a stack height of about 90m will be provided and SPM levels in the flue gas would be less than 100 mg/Nm ³ .	Complied. We have provided Electro Static Precipitator in the stack attached to the Cogen Boilers and ensure that the SPM level will be well below the norms stipulated at all times.
5	Regular monitoring of ambient air quality shall be carried out. The location of the existing ambient air quality monitoring stations shall be reviewed in consultation with the SPCB and additional stations will be set up, if required. It will be ensured that at least one station is in the down-wind direction.	Complied. We have already provided six monitoring stations surrounding our unit, considering all the projects and the ambient air quality is periodically monitored.
6	The fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored and data shall be submitted to the concerned authorities. The emissions shall be controlled and conform to the limits prescribed by the CPCB in future.	Complied. We have provided on line sensor for chlorine in the work zone environment at vantage locations and are being monitored continuously. The monitored report is periodically submitted to the Board.
7	The Ambient Noise level will be within 70 – 75 dB (A).	We will strictly comply with the standard.

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8	<p>The unit will achieve zero effluent discharge by segregating it into Low TDS and High TDS streams. High TDS effluent of 310 m³/day will be treated in a separate treatment plant having collection tank, flash mixer, primary clarifier and treated effluent collection tank. The treated effluent meeting the norms will be sent to solar evaporation ponds. The Low TDS effluent of about 1172 m³/d will be treated separately by passing through flash mixer, primary clarifier, post aeration tank, secondary clarifier, sludge thickener, multimedia filter, activated carbon filter and finally through nano system and R.O plant. The RO permeate of about 586 m³/d will be 100% recycled in the process and rejects from nano/RO systems will be sent to salt pans for recovery of salts. The treated effluent shall conform to the standards stipulated by the State Pollution Control Board or the MoEF, whichever is stringent.</p>	<p>Complied. We have installed treatment plant with Nano/RO system for the Low TDS effluent streams and operated continuously and efficiently. The recovered permeate is reused in the process and rejects from the RO system is used in the salt pans for the recovery of salts.</p> <p>We have already segregated the High TDS effluent streams and being treated in a separate treatment plant. The treated water meeting the standard is being sent to solar pans.</p>
9	<p>The vent gases from Chlorine absorber of Sodium Hypo chlorite plant and HCl Plant shall be controlled at source by effective absorption system so that Chlorine concentration in the vent gases shall not exceed 5 ppm. The vent gases shall be discharged from the stacks of adequate height for effective dispersion.</p>	<p>Complied. We have installed Sodium Hypo Chlorite plant for fugitive chlorine absorption system and scrubbing arrangements at the tail tower for HCl absorption and are operated effectively and continuously.</p>
10	<p>The Ammonia used for precipitation of Iron Oxide will be recovered completely and will be recycled.</p>	<p>Complied. The Ammonia used for precipitation of Iron Oxide is recovered and recycled completely.</p>
11	<p>The sludge generated from the expansion project will not exceed 450 TPM of Brine sludge, which will be disposed off in the secured landfill within the premises. 150 TPM of Grit sludge will also be disposed off in landfill. 2500 TPM of Ash generated from CPP will be sold to cement manufacturers.</p>	<p>Complied. The brine sludge from the membrane process, which is non hazardous are used for bund strengthening activities in our captive salt works. Fly ash is being sold to cement units and brick manufacturing units and the grit sludge from the iron oxide plant properly used in landfill.</p>
12	<p>The company shall comply with the recommendation made in risk assessment report and shall make Disaster Management Plan.</p>	<p>Complied. The recommendations of the risk assessment reports are strictly complied. Disaster Management Plan has already been prepared.</p>
13	<p>Chlorine gas detectors to detect leakage of Chlorine at liquid Chlorine storage tank, sodium Hypo-Plant at vent pipe, HCl manufacturing unit at vent pipe and electrolysis area. Online Chlorine analyzer shall also be installed.</p>	<p>Complied. We have already installed chlorine sensors at ten vantage locations, which includes chlorine receiver area, sodium hypo vent, HCl manufacturing unit, electrolysis area and monitored efficiently and continuously.</p>

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14	33% of the total area shall be developed as green belt as per the CPCB guidelines.	Complied. Green belt has already been developed in and around our unit and maintaining it with sustained efforts.
15	The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water.	Complied. Rainwater collection systems have already been developed.
16	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. We are periodically conducting the health check up for our employees and records are maintained as per Factories Act.
17	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan may be submitted to the SPCB.	Complied. We are periodically carrying out social welfare activities and undertake eco-developmental measures surrounding our unit.
B	General Conditions :	
1	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	We will strictly adhere to the stipulations made by the State Pollution Control Board.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	We will strictly comply with this requirement.
3	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	We ensure that the pollution control systems are operated effectively and continuously at all times.
4	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management and Handling) Rules, 1989 as amended in 2003. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	We will strictly comply with the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended and Hazardous and Other Waste (Management and Handling) Rules, 2016 and subsequent amendment. The authorization obtained vide our authorization No. 16HFC5099829 dt.03.08.2016 having validity for the period ending 02.08.2021 for collection, storage, transportation & disposal.
5	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBa (night time). Occupational Health surveillance programme should be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. The first aid facilities in the occupational health center should be strengthened and the medical records of each employee should be maintained separately.	We have already incorporated all the noise control measures for the projects and ensure that the noise level will always be well within the standard prescribed. We are periodically conducting health checkup for our employees and records are maintained. We are already having well equipped Medical center with first aid facility, operated round the clock with experienced Doctors and Paramedical staff.

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6	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP report and Disaster Management Plan. The unit should also undertake social welfare/community development measures in the surrounding villages such as health care, education and drinking water supply facilities.	We ensure that the Environment Management Plan and Disaster Management Plan as envisaged in the Environment Impact Assessment will be strictly complied with.
7	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	We are already having a separate Environmental Management Cell and equipped with full fledged laboratory facility for the environment monitoring functions.
8	The project authorities shall earmark separate funds of Rs.7.10 Crores to implement the environmental protection measures and conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	We have invested Rs. 11.6 crores so far, for providing air pollution control equipments, effluent treatment systems, secure land fill and green belt developments. We ensure that the fund allocated for the environmental protection measures are completely used.
9	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	As instructed, we have already advertised in the local news papers that are widely circulated in this region on 28.06.2007 itself and the details have already been submitted to the Regional Office and the Ministry, vide our letter DCW/NSM/PROJ/MoEF/ 07/5412 dt. 06.07.2007.
10	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	We have completed the Membrane Cell Caustic Soda plant, Cogen Power Plant and the Synthetic Iron Oxide Pigment Plant (Iron Oxide Plant) and the requisite consent for operation from TNPCB have already been obtained as per the details submitted in Annexure I. The details pertaining the financial closure have already been submitted vide our earlier compliance report.

Compliance Status to the conditions stipulated by Ministry of Environment & Forest, in the amendment to the 2007 Environmental Clearance issued for additional power generation from 50 MW to 58.27 MW vide letter dated 31st May 2010

Sl. No	Conditions stipulated by MoEF	Compliance by DCW
1	The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically.	Complied. The compliance status along with the monitored data as applicable is uploaded in the company's website www.dcwlttd.com . and the data is periodically updated.
2	The compliance status shall simultaneous be sent to the Regional office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.	Complied. The compliance status reports are periodically sent to the South Eastern Zone (SEZ) Regional office of MoEF & CC, Chennai, Zonal office of CPCB, Bangalore and periodical reports to TNPC Board.
3	The levels of PM, SO ₂ , fluoride and NO _x (ambient levels) and emissions from the stacks (CO, HCl and SO ₂) shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	Complied. Ambient Air Monitoring for PM, SO ₂ , NO _x & Cl ₂ and Stack emission for SPM, SO ₂ , NO _x , Cl ₂ , HCl are periodically monitored. We have installed continuous display of the monitored data at the main gate of the Unit. Further, we have connected the on-line stack monitoring to the CARE Air Centre, TNPC Board, Chennai/CPCB, New Delhi.
4	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 who suggestions/representation, if any, were received while processing the proposal.	Complied. We have sent the clearance letter to the Kayalpattinam Third Grade Municipality concerned.
5	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C conditions including results of monitored data (both in hard copies as well as by e-mail to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.	Complied. Six monthly compliance report including monitored data are periodically submitted to South Eastern Zone Regional Office of MoEF & CC, Chennai, CPCB and periodical reports to TNPC Board.
6	The environmental statement for each financial year ending 31 st March in Form -V as is mandated shall be submitted 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 conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied. The Environmental Statement in Form -V is periodically submitted to the Tamil Nadu Pollution Control Board, Chennai for each financial year ending 31 st March and the same is being put on the website of the unit.

Compliance Status to the conditions stipulated by Ministry of Environment & Forest, in the amendment to the Environmental Clearance for Indigenous Coal issued vide letter dated 21st Oct 2010.

Sl. No	Conditions stipulated by MoEF	Compliance by DCW
1	Imported coal will be blended with indigenous coal procured only through e-auction from the open market.	This proposal is yet to be taken up. We will comply with this requirement when we take up the proposal.
2	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. electrostatic precipitator (ESP) shall be provided to keep the emission levels below 100 mg/Nm ³ . At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	We have already provided dust extraction system and Electrostatic precipitator designed to handle indigenous coal, which will control the particulate emission level well below the norms stipulated. We have already provided continuous on line emission monitoring system and the same has been continuously being uploaded to CARE AIR CENTRE, TNPC Board, Chennai and CPCB, New Delhi.
3	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826(E) dated 16 th November, 2009 shall be followed.	We will strictly follow the National Ambient Air Quality Emission Standards.
4	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003.	We will ensure proper utilization of fly ash as per Fly Ash Notification 1999 and its subsequent amendment at all times.
5	The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically.	The compliance status along with the monitored data as applicable is uploaded in the company's website www.dcwLtd.com . and the data is periodically updated.
6	The compliance status shall simultaneous be sent to the Regional office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.	The compliance status reports are periodically sent to the South Eastern Zone (SEZ) Regional office of MoEF, Chennai, Zonal office of CPCB, Bangalore and periodical reports to TNPC Board.
7	The levels of PM, SO ₂ , fluoride and NO _x (ambient levels) and emissions from the stacks (CO, HCl and SO ₂) shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	Ambient Air Monitoring for PM, SO ₂ , NO _x & Cl ₂ and Stack emission for SPM, SO ₂ , NO _x , Cl ₂ , HCl are periodically monitored. We have installed continuous display of the monitored data at the main gate of the Unit. Further, we have connected the on-line stack monitoring to the CARE Air Centre, TNPC Board, Chennai/CPCB, New Delhi.

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8	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 who suggestions/representation, if any, were received while processing the proposal.	Complied. We have sent the clearance letter to the Kayalpattinam Third Grade Municipality concerned.
9	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C conditions including results of monitored data (both in hard copies as well as by e-mail to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.	Complied. Six monthly compliance report including monitored data are periodically submitted to South Eastern Zone Regional Office, Chennai CPCB and periodical reports to TNPC Board.
10	The environmental statement for each financial year ending 31 st March in Form –V as is mandated shall be submitted 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 conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	The Environmental Statement in Form –V is periodically submitted to the Tamil Nadu Pollution Control Board, Chennai for each financial year ending 31 st March and the same is being put on the website of the unit.

Compliance to the conditions stipulated by MoEF For CAPTIVE POWER PLANT, vide clearance No.J-13011/4/97-IA-II(T) dt. 4.11.1997.

Sl. No.	Conditions	Compliance by DCW
1	The fuel (furnace oil) at the rate of 32-35 t / day / machine would be used with the sulphur content in the liquid fuel to be used as fuel shall not exceed 2%	Complied. This will be strictly followed for the remaining 2X6 MW stand by units.
2	Five stacks of 57 metre height each with continuous stack monitor arrangement will be provided.	Complied. Now, we are having only Two stacks of 57 metre height each with continuous stack monitoring, as we have decommissioned the other DG sets. The two numbers of existing is used only as a stand by unit.
3	The Nox emission would not exceed 1100 ppm in any case.	Complied.
4	Close circuit cooling with cooling towers shall be provided.	Closed circuit cooling with cooling towers already in place will be followed.
5	The concept of zero discharges shall be practiced. The treated waste water conforming to the prescribed standards shall be used for raising of green belt.	The effluent from CPP is recycled in our Ilmenite plant for washing the end product and the wash water is treated in a specially designed effluent treatment plant using nano and RO filtration for reuse maximum. This is being strictly followed for the stand by units. The waste water is treated in a common Low TDS effluent treatment plant having Nano/RO system and the recovered water is reused for process application following thee concept of zero discharge
6	Adequate precautions shall be taken to ensure that the noise levels do not exceed the prescribed standards. Workers in the high noise area will be provided with ear protection devices and their use shall be ensured.	The remaining 2X6 MW standby DG sets have already been housed in a pucca RCC building and control rooms are fitted with sound proof doors. Operating personnel are provided with ear muff and ear plugs and ensured its usage regularly.
7	A green belt of at least 50 m width and tree density with suitably selected species shall be developed all around the power plant.	We have already adopted good green belt development in the plant premises as well as in the surrounding area of our plant with systematic and sustained efforts covering 30% of the plant area.
8	Necessary permission should be obtained from the Directorate of Explosives and Factory Inspectorate for the storage of fuel.	Necessary permission obtained from the Department of Explosives and Factory Inspectorate for storage of fuel and periodically renewed.