

SEIL Project 2/MoEF/Chennai/EC/2020/020  
30<sup>th</sup> June'2020

To  
**The Regional Director**  
**Regional Office (South Eastern Region)**  
**Ministry of Environment, Forests & Climate Change**  
**1<sup>st</sup> & 2<sup>nd</sup> Floor, HEPC Building, No 34, Cathedral Garden Road**  
**Nungambakkam, Chennai - 600034**

**Sembcorp Energy India Limited**  
(Formerly Thermal Powertech Corporation India Ltd)  
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**Sub: SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited –SGPL) - Submission of Six-monthly EC Compliance Report (Oct'19 to March'2020) – Reg.**

Ref: EC Letter No J 13012/76/2009 – IA.II (T) dated 30-09-2010, amended 18.05.2011

Respected Sir,

With reference to above mentioned subject matter and references cited, we herewith submit the Six-monthly EC compliance report (Oct'2019 to March'2020) along with supporting attachments to the conditions specified under Environmental Clearance issued to SEIL Project 2 (Formerly known as Sembcorp Gayatri Power Limited –SGPL), Nellore.

We hope you will find the above documents in order.

Thanking you,

Yours faithfully,  
For Sembcorp Energy India Limited,



**(Pavan Kumar Rao V)**  
**Head HSE - SEIL**

**Enclosures attached.**

**CC:** 1. The Director, IA.I, MoEF & CC, New Delhi  
2. The Environmental Engineer (APPCB), Nellore



**ENVIRONMENTAL CLEARANCE**  
**SIX MONTHLY COMPLIANCE REPORT**  
**OF**  
**SEMBCORP ENERGY INDIA LIMITED P-2**  
**(Formerly known as Sembcorp Gayatri Power Limited-SGPL)**

*2 X 660 MW COAL BASED SUPERCRITICAL THERMAL POWER PLANT*  
*AT PAINAMPURAM, SIVARAMPURAM & ANANTAPURAM VILLAGES,*  
*MUTHUKUR MANDAL*  
*SPSR NELLORE DISTRICT*  
*ANDHRA PRADESH*  
*INDIA*







**Compliance to Environment Clearance Conditions**

**(Period: Oct'2019 to March'2020)**

## **Compliance to MoEF EC Conditions:**


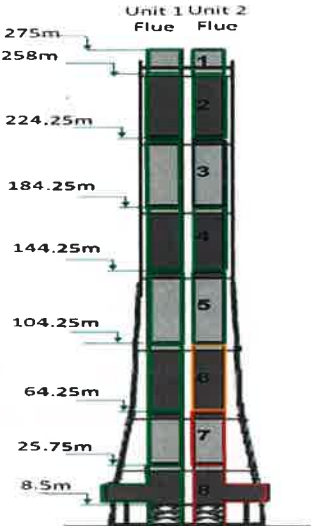
**EC LETTER DATED 30/09/2010; 18/05/2011 AND 04.03.2016**




<b>S. No.</b>	<b>Condition</b>	<b>Compliance</b>
<b>A. <u>Specific Conditions:</u></b>		
i.	Environmental clearance is subject to obtaining CRZ clearance (as applicable) for permissible activities in CRZ area.	CRZ clearance obtained from MoEF (F No. 11-44 / 2011 – IA – III dated 9 <sup>th</sup> April'2012). Copy of CRZ Clearance attached (Annexure-I).
ii.	Source of fuel supply will be Domestic Coal and Imported Coal in the ratio of 70:30.	Noted
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.	Complied. SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) has installed RO process for desalination in the place of NIOT LTTD. We have communicated the detailed explanation vide letter SGPL/ MoEF & CC / Delhi / 2018 / 46 dated 12.06.2018.

S. No.	Condition	Compliance
iv.	<p>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.</p>	<p>Complied. [See CSR Update from October'19 to March'20 in <b>Annexure II</b>]  During October'19 to March'2020 following local women, Schools villages identified, trained and developed awareness at Sembcorp Entrepreneur Development Centre [SEDC] and villages:</p> <ul style="list-style-type: none"> <li>• 170 nos. of women from nearby villages were trained in Tailoring</li> <li>• 140 nos. women trained in Embroidery work on Sarees</li> <li>• 30 nos. youth trained in Computer Applications training course.</li> <li>• 240 families benefited with New Bore Well and Water line provided to Waghartha, Pynapuram RO Plant.</li> </ul>    

S. No.	Condition	Compliance
v.	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.	As per the Recommendations of 18 <sup>th</sup> Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 <sup>th</sup> June, 2018, SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) have submitted the Socio-economic study and need based assessment study report to MoEF & CC, APPCB on 16 <sup>th</sup> April'2019 [Ref. No: SEIL Project 2 / MoEF /New Delhi / EC / 2019 / 78].
vi.	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.	As per the Recommendations of 18 <sup>th</sup> Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 <sup>th</sup> June, 2018, SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) have submitted the Socio-economic study and need based assessment study report to MoEF & CC, APPCB on 16 <sup>th</sup> April'2019 [Ref. No: SEIL Project 2 / MoEF /New Delhi / EC / 2019 / 78].
vii.	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.	As per the Recommendations of 18 <sup>th</sup> Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 <sup>th</sup> June, 2018, SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) have submitted the Socio-economic study and need based assessment study report to MoEF & CC, APPCB on 16 <sup>th</sup> April'2019 [Ref. No: SEIL Project 2 / MoEF /New Delhi / EC / 2019 / 78].
viii.	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.	Complied.
ix.	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.	Complied.  SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) is monitoring the temperature of the Marine Outfall discharge and readings are within the limits specified by MoEF, APPCB. Also pH, Temperature and TSS parameters of Marine Outfall discharge are connected to CPCB and APPCB online monitoring websites.  Marine Outfall effluent analysis report attached as Annexure-III.

S. No.	Condition	Compliance
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.	Complied.
xi.	No waste (effluent) shall be discharged into canal systems, backwaters, marshy areas and the sea (as applicable) without treatment.	<p>Complying.</p> <p>ETP &amp; STP effluent treated water is reused for green belt development and coal yard dust suppression.</p> <p>ETP &amp; STP effluent analysis report attached as Annexure-IV.</p> <p>Marine Outfall effluent analysis report attached as Annexure-III.</p>
xii.	The marshy areas in the vicinity (if any) shall not be disturbed.	Complied.
xiii.	Intake shall be from deep sea to avoid aggregation of fish and other marine creatures.	Complying.
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.	Complied.
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	<p>Complied.</p> <p>Annually reviewed hydrogeology report is submitted on 17<sup>th</sup> February'2020.</p> <p>Also MoEF approved third party laboratory is monitoring groundwater quality. (Reports are attached as Annexure-V).</p>


S. No.	Condition	Compliance
xvi.	<p>A stack of 275 m height shall be provided with continuous online monitoring equipment for SO<sub>x</sub>, NO<sub>x</sub> and PM<sub>2.5</sub> and PM<sub>10</sub>. 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>	<p>Complied.</p> <p>Online continuous emission monitoring system (CEMS) is in operation for monitoring PM, SO<sub>x</sub>, NO<sub>x</sub>.</p> <p>Flue gas exit velocity, mercury emissions are monitored through APPCB approved third party (APPCB approved third party reports of Stack Emissions Monitoring attached as Annexure-VI).</p> <p>Stack height of 275 m has been provided for wider diffusion of gaseous emissions.</p> <div style="display: flex; align-items: center;">   </div> <p>CEMS platform &amp; installation done at 103 m elevation.</p>
xvii.	<p>Sulphur content in the imported coal shall not exceed 0.60%.</p>	<p>Complying.</p>
xviii.	<p>High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm<sup>3</sup>.</p>	<p>Complied.</p> <p>(APPCB approved third party reports of Stack Emissions Monitoring attached (Annexure-VI).</p>

S. No.	Condition	Compliance
xix.	Provision for FGD shall be provided for future use as and when required.	<p>Noted.</p> <p>As per CPCB directions letter (no. B-33014 / 07 / 2017-18 / IPC-II / TPP / 15841 dated 11.12.2017):</p> <p>SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) need to install FGD by 31st Dec, 2021 &amp; 30th Sept., 2021 in Unit 1 &amp; Unit 2 respectively so as to comply SO2 emission limit.</p> <p>SEIL P2 has initiated tendering process for installation of FGD. Technical evaluation of bids received has been completed. Contract will be shortly awarded.</p>
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.	<p>Complied.</p> <p>Bag filters along with Cyclone Separators, Dust suppression and Dry fog Dust suppression systems installed to coal crusher unit.</p>   

S. No.	Condition	Compliance
xxi.	A detailed coal analysis from a reputed lab for all contracted coal sources for the project shall be submitted within three months.	<p>SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) Unit-1 &amp; Unit-2 commenced operation from Nov 2016 &amp; Feb 2017.</p> <p>Lab Test Coal Analysis Reports are Attached as Annexure - VII.</p>
xxii.	Utilization of 100% Fly Ash generated shall be made from 4 <sup>th</sup> year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	<p>Complied.</p> <p>SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) is achieving 100% fly ash utilization since Nov'2019.</p> <p>Due to Central and State elections from March'2019 to July'2019, fly ash off-take was severely affected as there were no construction works which in turn lead to very less demand to Cement. Due to this no off-take of ash by cement &amp; brick industries.</p> <p>(Attached letter submitted to CPCB on Annual ash utilization for 2019-2020 vide letter no. SEIL P2/APPCB /Nellore /2020 /016 dated 20th April'2020 as Annexure – VIII).</p>

S. No.	Condition	Compliance
xxiii.	<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 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.</p>	<p>Complied.</p> <p>Fly ash dry collection system is in place.</p> <p>Ash Water Recirculation system in operation and treated water is utilized for Coal Handling Plant dust suppression.</p>  <p>Monitoring of heavy metals in the bottom ash and ash pond effluents is being carried out on quarterly basis by APPCB approved third party agency. (Reports attached in Annexure-IX).</p> <p>Piezometer Bore wells water level monitoring &amp; analysis is carried out once in a month. (Reports attached as Annexure – V)</p>  <p>Ash pond effluents treated in HRSCC at ETP. ETP treated water analysis reports attached as Annexure-IV.</p> <p>No ash is disposed-off in low lying area.</p>
xxiv.	<p>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.</p>	<p>Complied.</p> 

S. No.	Condition	Compliance
xxv.	For disposal of Bottom Ash (if proposed to be undertaken) 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 Pollution Control Board well in advance before undertaking the activity.	As per the new MoEF & CC guidelines released F.No. 22-13/2019-IA.III dated 28th Aug'2019 on "Change in conditions stipulated in the Environmental Clearances of Thermal Power Plants and Coal Mines in line with the Fly Ash Notification and subsequent amendment", SEIL will take suitable measures to utilize bottom ash in accordance with above guidelines.
xxvi.	Closed cycle cooling system shall be provided. The effluents shall be treated as per the prescribed norms. COC of atleast 1.25 shall be adopted.	Complying.

S. No.	Condition	Compliance
xxvii.	<p>Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 75 %.</p>	<p>Complied.</p> <p>An area of 315 acres green belt / green cover developed adopting scientific methods like establishment of mist chamber, drip &amp; sprinkler system, vermin compost production &amp; application of bio pesticides.</p> <p>Peripheral planting along inside of the compound wall has been developed with 3 tiers of plantations.</p> 

<b>S. No.</b>	<b>Condition</b>	<b>Compliance</b>
xxviii.	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 form the date of issue of this letter.	Not Applicable.

S. No.	Condition	Compliance
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>	<p>Complied. [See Annexure II]</p> <p>CSR implementation reports are submitted along with 6 monthly reports.</p> <p><u>SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited – SGPL) status:</u></p> <p>As part of the company's corporate social responsibility initiative, our company pays considerable attention to upliftment of local community by providing Education, community health programmes, social infrastructure environment and other developmental initiatives. During the last financial year the company has under taken the following works:</p> <p><b>Sembcorp Entrepreneurship Development Centre [SEDC]:</b></p> <p>Complied. [See CSR Update from October'19 to March'20 in <b>Annexure II</b>]</p> <p>During October'19 to March'2020 following local women, Schools villages identified, trained and developed awareness at Sembcorp Entrepreneur Development Centre [SEDC] and villages:</p> <ul style="list-style-type: none"> <li>• 170 nos. of women from nearby villages were trained in Tailoring</li> <li>• 140 nos. women trained in Embroidery work on Sarees</li> <li>• 30 nos. youth trained in Computer Applications training course.</li> <li>• 240 families benefited with New Bore Well and Water line provided to Waghartha Pynapuram RO Plant.</li> <li>• 125 members benefited with Mega Medical camp at SC and ST Populated area.</li> </ul> <div data-bbox="855 1559 1437 2114"> </div>

S. No.	Condition	Compliance
		 <p><b>Social Infrastructure:</b></p> <ul style="list-style-type: none"> <li>• Operation and Maintenance of 9 nos. RO plants covering 9 villages in all the surrounding villages benefitting 4500 nos. of families.</li> <li>• Bore well and Pipe line work started to supply raw water to RO Plant Pynapuram as existing water source got polluted work started on 28/12/2019</li> </ul>    

S. No.	Condition	Compliance
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Complied.

Sembcorp Energy India Limited had carried out a Household survey to identify the skill development needs among 4 surrounding Panchayats of Muthukur and TP Gudur Mandal's. Unemployed Youth and women had shown their choice of vocation in 12 trades under Skill Development and 8 Trades for initiating Entrepreneurship Development Programs. Accordingly SEIL has set-up an "Entrepreneurship Development Centre". Till End of June'2020:



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.


- 553 women and youth were trained in Sembcorp Entrepreneurship development Centre.
- Free bus transportation arranged to the trainees from the surrounding villages to the center daily to attend the Training.
- SEDC has 4 Class rooms and 2 workshops with more than 10,000 sq. feet area and can accommodate 200 trainees at a time.
- SEDC partners with Blaze IT Solutions, Kandukuri Garments, Naandi Foundation, KP port etc.


xxx.



S. No.	Condition	Compliance																																								
xxxii.	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.	Complied.																																								
xxxiii.	Criteria pollutant levels including NO <sub>x</sub> , RSPM, SO <sub>x</sub> (from stack and ambient air) shall be regularly monitored and results displayed in your website and also at the main gate of power plant.	<p>Complied</p> <p>Main gate display completed. Continuously displayed the stack emissions &amp; ambient quality parameters.</p>   <table border="1" data-bbox="1155 1196 1458 1563"> <thead> <tr> <th colspan="2">Effluent Discharge Standards</th> </tr> <tr> <th>Outlet Name</th> <th>Parameter</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Marine Outlet</td> <td>pH</td> <td>6.5 to 8.5</td> </tr> <tr> <td>Suspended solids</td> <td>100 mg/l</td> </tr> <tr> <td>Oil &amp; Grease</td> <td>10 mg/l</td> </tr> <tr> <td>Temperature</td> <td>shall not increase 3°C above the receiving water temperature</td> </tr> <tr> <td rowspan="4">ETP Outlet</td> <td>pH</td> <td>5.5 to 10.5</td> </tr> <tr> <td>Suspended solids</td> <td>200 mg/l</td> </tr> <tr> <td>Oil &amp; Grease</td> <td>10 mg/l</td> </tr> <tr> <td colspan="2">Emission Standards</td> </tr> <tr> <td>Parameter</td> <td>Emission Standards in mg / Nm<sup>3</sup></td> </tr> <tr> <td>Flue Gas Sulphur (SO<sub>2</sub>)</td> <td>50</td> </tr> <tr> <th colspan="2">Hazardous Waste Authorization</th> </tr> <tr> <th>S. No.</th> <th>Name of the Hazardous Waste</th> <th>Quantity</th> </tr> <tr> <td>1</td> <td>Used Oil</td> <td>1.5 T of Schedule - I</td> </tr> <tr> <td>2</td> <td>Waste Oil</td> <td>1.5 T of Schedule - I</td> </tr> <tr> <td>3</td> <td>Land-Fill Refusals</td> <td>10 T per</td> </tr> </tbody> </table>	Effluent Discharge Standards		Outlet Name	Parameter	Marine Outlet	pH	6.5 to 8.5	Suspended solids	100 mg/l	Oil & Grease	10 mg/l	Temperature	shall not increase 3°C above the receiving water temperature	ETP Outlet	pH	5.5 to 10.5	Suspended solids	200 mg/l	Oil & Grease	10 mg/l	Emission Standards		Parameter	Emission Standards in mg / Nm <sup>3</sup>	Flue Gas Sulphur (SO <sub>2</sub> )	50	Hazardous Waste Authorization		S. No.	Name of the Hazardous Waste	Quantity	1	Used Oil	1.5 T of Schedule - I	2	Waste Oil	1.5 T of Schedule - I	3	Land-Fill Refusals	10 T per
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xxxiii.	A Corporate Environmental Policy shall be formulated and after due approval of the Board of Directors of the Company shall be submitted to the Ministry. The policy shall specifically address issues of adherence to environmental clearance conditions stipulated for the power project and others including matters related to violations (if any) to the Board.	<p>Complied.</p> <p>HSE Policy Attached as Annexure-X.</p>																																								


**B. General Conditions:**


S. No.	Condition	Compliance
i.	<p>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.</p> <p>Arrangements shall be made that effluents and storm water do not get mixed.</p>	<p>Complied.</p> <p>Separate Storm Water drainage constructed.</p> <p>ETP &amp; STP outlet water is reused for green belt development and coal yard dust suppression.</p> <p>ETP &amp; STP treated water analysis reports attached as Annexure-IV.</p> <p>Marine Outfall effluent analysis report attached as Annexure-III.</p>
ii.	<p>A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/ plantation.</p>	<p>Complied.</p> <p>STP is fully operational and STP treated water is used for greenbelt and coal dust suppression.</p> <p>STP treated water analysis reports are attached in Annexure – IV.</p> 
iii.	<p>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.</p>	<p>Complied.</p> <p>SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited-SGPL) is not using any groundwater for its operations or non-plant operations.</p> <p>Rainwater harvesting technology study report is done through reputed consultant (Retd CGWB Director). Report submitted to MoEF &amp; APPCB on 27<sup>th</sup> February'2020.</p> <p>9 Nos. of Rainwater Harvesting Pits are in service.</p>

S. No.	Condition	Compliance
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.	<p>Complied.</p> <p>Layout drawing of fire hydrants &amp; monitors submitted along with EC six monthly compliance report vide letter no. SGPL/MoEF/Chennai/EC/15 dated 5<sup>th</sup> January 2018.</p> <p>Stock Pile Dust Suppression sprinklers (300 numbers installed) in all coal yards.</p>
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.	<p>Complied.</p> <p>CCOE License attached as Annexure - XI.</p>
vi.	Regular monitoring of ground water level has not been carried out by establishing a network of existing wells and constructing new piezometers. Monitoring of water quality around the ash pond area has not been carried out and records were not submitted to the Regional Office of the MoEF &CC (General condition no.vi).	<p>Complied.</p> <p>Existing bore well data is monitored through approved, reputed environmental consultant.</p> <p>8 nos. of Piezo wells are in service around ash pond and other locations of the plant. Ground Water levels monitoring is carried out once in a month.</p> <p>Piezometer Bore wells ground water analysis reports attached as Annexure – V.</p>
vii.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	<p>Complied.</p> 

S. No.	Condition	Compliance
viii.	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.	<p style="text-align: center;">Complied.</p> <p>Quarterly Noise monitoring studies are carried out through APPCB approved laboratory (by M/s SV Enviro Labs &amp; Consultants).</p> <p style="text-align: center;">Reports attached as Annexure XII.</p>
ix.	Regular monitoring of ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , 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.	<p style="text-align: center;">Complied.</p> <p>Ambient Air Quality Monitoring carried out by APPCB approved Laboratory (by M/s SV Enviro Labs &amp; Consultants) and six monthly reports submitted to APPCB.</p> <p style="text-align: center;">Reports attached as Annexure XIII.</p>
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.	<p style="text-align: center;">Complied.</p>

S. No.	Condition	Compliance
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	<p style="text-align: center;">Complied.</p> <p>Environment clearance letter has been put up on Sembcorp website @ <a href="https://www.sembcorpenergyindia.com/AboutUs/Disclosure">https://www.sembcorpenergyindia.com/AboutUs/Disclosure</a></p>
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 NOO, 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.	<p style="text-align: center;">Complied.</p> <p>Environment clearance letter has been put up on Sembcorp website @ <a href="https://www.sembcorpenergyindia.com/AboutUs/Disclosure">https://www.sembcorpenergyindia.com/AboutUs/Disclosure</a></p>
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.	<p style="text-align: center;">Complied.</p> <p>Environment Management Cell exists in the plant with two full time Environment Officers with Post Graduation Degree in Environmental Science Engineering, who directly reports to Head HSE - SEIL.</p> <p>Services of Marine biologist &amp; ecologist will be hired based on requirements.</p>

S. No.	Condition	Compliance
xiv.	<p>The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollution levels namely; SPM, RSPM, 802, NOx (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>	<p>Complied.</p> <p>EC six monthly compliance reports are being submitted. (Ref: SEIL Project 2 / MoEF / Chennai / EC / 104 dated. 28<sup>th</sup> Nov'19)</p> <p>The reports are uploaded in Sembcorp website @ <a href="https://www.sembcorpenergyindia.com/AboutUs/Disclosure">https://www.sembcorpenergyindia.com/AboutUs/Disclosure</a>.</p> 
xv.	<p>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.</p>	<p>Complied.</p> <p>EC six monthly compliance reports are being submitted. (Ref: SEIL Project 2 / MoEF / Chennai / EC / 104 dated. 28<sup>th</sup> Nov'19)</p> <p>The reports are uploaded in Sembcorp website @ <a href="https://www.sembcorpenergyindia.com/AboutUs/Disclosure">https://www.sembcorpenergyindia.com/AboutUs/Disclosure</a></p>
xvi.	<p>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 EC conditions and shall also be sent to the respective Regional Offices of the Ministry by mail.</p>	<p>Complied.</p> <p>(Environment Statement in Form V submitted to APPCB vide letter no. SEIL P2 / APPCB / NLR / 2020/016 dated 13<sup>th</sup> May'2020)</p>

S. No.	Condition	Compliance
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 bye-mail to the Regional Office, Ministry of Environment and Forests.	<p>Complied.</p> <p>EC six monthly compliance reports are being submitted. (Ref: SEIL Project 2 / MoEF / Chennai / EC / 104 dated. 28<sup>th</sup> Nov'19)</p> <p>The reports are uploaded in Sembcorp website @</p> <p><a href="https://www.sembcorpenergyindia.com/AboutUs/Disclosure">https://www.sembcorpenergyindia.com/AboutUs/Disclosure</a></p>
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 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>Complied.</p>  <p>The reports were submitted to Ministry during project phase. EIA and EMP are already submitted.</p>
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.	<p>Budget allocated for Environment Management was Rs. 573.32 Crores as per EIA (page no. 146). The amount has already been spent during 2010-2016.</p> <p>Now the plant is in operation stage. However, continuous recurring cost for Environment management (EQM, AAQM, CEMS, hydro-geology studies, CRZ mappings etc.) during operation is allocated in annual budget.</p>

S. No.	Condition	Compliance
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.	<p style="text-align: center;">Complied.</p> <p>Our 6 monthly reports included project progress photos and other details.</p> <p style="text-align: center;">Now the plant is in operation stage.</p>
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.	<p style="text-align: center;">Complied.</p>

