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SEIL Project 2/MoEF&CC/Chennai/EC/2020/022
24th December 2020

Sembcorp Energy India Limited
(Formerly Thermal Powertech Corporation India Ltd)
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To
The Regional Director,
Regional Office (South Eastern Region),
Ministry of Environment, Forests & Climate Change,
1st & 2nd Floor, HEPC Building, No 34, Cathedral Garden Road,
Nungambakkam,
Chennai - 600034

Dear Sir,

Sub: Submission of Half Yearly EC Compliance Report of SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited– SGPL) for the period April 2020 to September 2020

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

This has reference to the above subject and cited reference. As per the provision of Environment Clearance and EIA Notification 2006, we are herewith submitting the half yearly compliance status report for the period of April 2020 to September 2020) along with supporting documents to the conditions specified under Environmental Clearance issued to SEIL Project 2 (Formerly known as Sembcorp Gayatri Power Limited –SGPL), Nellore.

Thanking you,

Yours faithfully,
For **Sembcorp Energy India Limited,**


Pavan Kumar Rao V
Head HSE - SEIL



Copy To:

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: April 2020 to September 2020

Compliance to MoEF EC Conditions:

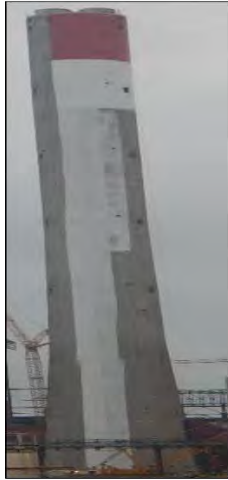
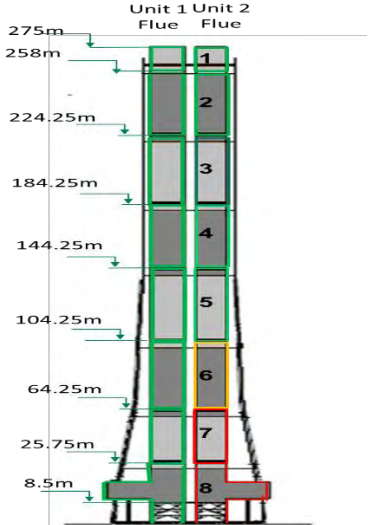
EC LETTER DATED 30/09/2010; 18/05/2011 AND 04.03.2016


S. No.	Condition	Compliance
A. <u>Specific Conditions:</u>		
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 th April 2012). Copy of CRZ Clearance attached as 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>Complying with.</p> <p>CSR Update from April 2020 to September 2020 attached as Annexure- II.</p> <p>During April 2020 to September 2020 Sembcorp has supported the local community to fight the global pandemic effect. following initiatives have been taken.</p> <ul style="list-style-type: none"> • 20 No's women trained in stitching the nose mask, an essential commodity during the pandemic. • Virtual Training on `Computer Basic Skills to 20 youth from the surrounding villages was initiated through employee engagement on 21st October and is under progress. • Fly Ash utility and Bricks Manufacturing Training Curriculum prepared. Training registration etc in progress delayed due to pandemic. 10 members in one batch for 30 days training will be given. • Awareness on Social issues related to Alcoholism and other pertinent issues prevailing in the surrounding villages prepared to take up virtual training sessions at the community level. 80 members attended the program. 

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 th Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 th 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 th 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 th Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 th 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 th 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 th Meeting of Reconstituted Expert Appraisal Committee (EAC) dated 27 th 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 th 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.	Complying with. 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&CC, 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 .

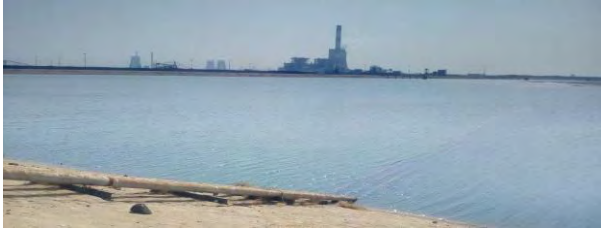
S. No.	Condition	Compliance
x.	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied.
xi.	No waste (effluent) shall be discharged into canal systems, backwaters, marshy areas and the sea (as applicable) without treatment.	<p>Complying with.</p> <p>ETP & STP effluent treated water is reused for green belt development and coal yard dust suppression.</p> <p>ETP & 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 with.
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 into 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 17th February 2020.</p> <p>Also MoEF&CC 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_x, NO_x and PM2.5 and PM10. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.</p>	<p>Complied.</p> <p>Online continuous emission monitoring system (CEMS) is in operation for monitoring PM, SO_x, NO_x.</p> <p>Flue gas exit velocity, mercury emissions are monitored through APPCB approved third party and the reports of Stack Emission 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 & installation done at 103 m elevation.</p>
xvii.	<p>Sulphur content in the imported coal shall not exceed 0.60%.</p>	<p>Complying with.</p>
xviii.	<p>High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³</p>	<p>Complying with.</p> <p>APPCB approved third party reports of Stack Emissions Monitoring attached as 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 & 30th Sept., 2021 in Unit 1 & Unit 2 respectively so as to comply SO_x emission limit.</p> <p>Contract awarding is in progress for installation of FGD.</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>Complying with.</p> <p>Bag filters along with Cyclone Separators, Dust suppression and Dry fog Dust suppression systems installed to coal crusher unit.</p>  
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 & Unit-2 commenced operation from Nov 2016 & Feb 2017.</p> <p>Coal Analysis Lab test reports are attached as Annexure- VII.</p>

S. No.	Condition	Compliance
xxii.	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	<p>Complying with.</p> <p>SEIL Project 2 (formerly known as Sembcorp Gayatri Power Limited– SGPL) is achieving 100% fly ash utilization since June 2018.</p> <p>Attached letter submitted to CPCB on Annual Fly Ash utilization for FY2019-2020 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>Complying with.</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 as Annexure- IX.</p> <p>Piezometer Bore wells water level monitoring & 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>

S. No.	Condition	Compliance
xxiv.	Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	<p>Complied.</p> 
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.	<p>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.</p>
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.	<p>Complying with.</p>






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>Complying with.</p> <p>An area of 315 acres green belt / green cover developed adopting scientific methods like establishment of mist chamber, drip & sprinkler system, vermi compost production & application of bio pesticides.</p> <p>Peripheral planting along inside of the compound wall has been developed with 3 tiers of plantations.</p>    

S. No.	Condition	Compliance
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>Complying with.</p> <p>CSR implementation reports are submitted along with six 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, 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 undertaken the following works:</p> <p>Complying with.</p> <p>CSR Update from April 2020 to September 2020 attached as Annexure- II.</p> <p>During April 2020 to September 2020 Sembcorp supported the local community to fight the global pandemic effect. following initiatives have been taken.</p> <ul style="list-style-type: none"> • Hosted and conducted village wide disinfection campaign using hypochlorite solution in nearby villages around 2730 families benefitted through the process • Changed Membranes for Two RO Plants with Used Membranes of Plant Chemistry Department. This initiative reduces the OPEX on RO Plants benefitted 1100 families • Distribution of Rice for the Month of April 2020 as part of R&R Package for 6 Months for the year 2020 in Nelaturupalem. A Total of 504 families got benefitted. • Bleaching powder spraying and social distance marking and Raw water tanks, product Water tanks cleaning and water sample testing conducted at all RO Plants. Water collecting points frequently disinfected and women, Villages were given awareness on Covid Transmission. A total of 4500 families benefitted. • Laptops, used mobile phones and any electronic gadgets to support poor, deserving and meritorious students in our surrounding villages during this COVID-19 situation and in challenging times in a view to support poor students


S. No.	Condition	Compliance
		<ul style="list-style-type: none"> • Changing of Membranes for Two RO Plants Nelaturu palem and CS Puram with Used Membranes of Plant WTP of SEIL P2. This initiative reduces the OPEX Cost on RO Plants. Replacing of Damaged Raw Water Tank 3000 Liters of RO Plant Waghartha Pynapuram from Plant inside RO Plant without any expenditure. • Donated Medical Equipment “Cell Counter BC 3000Plus Auto Hematology Analyzers “of Nine Numbers to District Covid hospitals under CSR “Health” Initiative. The Medical Equipment Donated to District Health Officials at Collectors Camp Office in the presence of District Collector, SPSR Nellore. • Provided Medical equipment, Quarantine Medical Material, Primary Medical support material for Covid Care center for Industrial workers at Krishnapatnam.   


S. No.	Condition	Compliance
xxx.	<p>As part of CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society.</p> <p>Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.</p>	<p>Complying with.</p> <p>Sembcorp Energy India Limited looked for the best ways in the pandemic situation to help people through virtual training and awareness programs.</p> <ul style="list-style-type: none"> • 20 No's women trained in stitching the nose mask, an essential commodity during the pandemic. • Virtual Training on 'Computer Basic Skills' to 20 youth from the surrounding villages was initiated this month through employee engagement on 21st October and is under progress. • Fly Ash utility and Bricks Manufacturing Training Curriculum prepared. Training registration etc. in progress delayed due to pandemic. 10 members in one batch for 30 days training will be given. • Awareness on Social issues related to Alcoholism and other pertinent issues prevailing in the surrounding villages prepared to take up virtual training sessions at the community level 80 members attended.
xxxii.	<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>Complied.</p>

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xxxii.	<p>Criteria pollutant levels including NO_x, RSPM, SO_x, (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>	<p>Complying with.</p> <p>Main gate display provided. Continuously displayed the stack emissions & ambient quality parameters.</p>   <table border="1" data-bbox="1158 853 1461 1218"> <tr> <td colspan="2" style="text-align: center;"></td> </tr> <tr> <td colspan="2" style="text-align: center;">2 x 660 MW Super Critical Thermal Power Plant</td> </tr> <tr> <td colspan="2" style="text-align: center;">Consent Order Ref: APPCB/HO/UH-IV/CFO: VIA/Auto Renewal-1/2017 - dated 29.01.2017, valid till 28.02.2022.</td> </tr> <tr> <td colspan="2" style="text-align: center;">Effluent Discharge Standards</td> </tr> <tr> <td>Outlet Name</td> <td>Parameter Limiting Standard</td> </tr> <tr> <td rowspan="4">Marine Outfall</td> <td>pH</td> <td>6.5 to 9</td> </tr> <tr> <td>Suspended solids</td> <td>100</td> </tr> <tr> <td>Oil & Grease</td> <td>20 mg/l</td> </tr> <tr> <td>Temperature</td> <td>Shall not exceeded 5°C above the receiving water temperature</td> </tr> <tr> <td rowspan="3">ETP Outfall</td> <td>pH</td> <td>5.5 to 9.0</td> </tr> <tr> <td>Suspended solids</td> <td>200 mg/l</td> </tr> <tr> <td>Oil & Grease</td> <td>10 mg/l</td> </tr> <tr> <td colspan="2" style="text-align: center;">Emission Standards</td> </tr> <tr> <td>Parameter</td> <td>Emission Standards in mg / Nm³</td> </tr> <tr> <td>Particulate Matter (PM)</td> <td>50</td> </tr> <tr> <td colspan="2" style="text-align: center;">Hazardous Waste authorization</td> </tr> <tr> <td>S. No</td> <td>Name of the Hazardous Waste</td> <td>Schedule</td> <td>Quantity</td> </tr> <tr> <td>1</td> <td>Used Oil</td> <td>5.1 of Schedule - I</td> <td>30 KL / Annam</td> </tr> <tr> <td>2</td> <td>Waste Oil</td> <td>5.1 of Schedule - I</td> <td>1 KL / Annam</td> </tr> <tr> <td>3</td> <td>Leak Acid Containers</td> <td>-</td> <td>To Nil</td> </tr> </table>			2 x 660 MW Super Critical Thermal Power Plant		Consent Order Ref: APPCB/HO/UH-IV/CFO: VIA/Auto Renewal-1/2017 - dated 29.01.2017, valid till 28.02.2022.		Effluent Discharge Standards		Outlet Name	Parameter Limiting Standard	Marine Outfall	pH	6.5 to 9	Suspended solids	100	Oil & Grease	20 mg/l	Temperature	Shall not exceeded 5°C above the receiving water temperature	ETP Outfall	pH	5.5 to 9.0	Suspended solids	200 mg/l	Oil & Grease	10 mg/l	Emission Standards		Parameter	Emission Standards in mg / Nm ³	Particulate Matter (PM)	50	Hazardous Waste authorization		S. No	Name of the Hazardous Waste	Schedule	Quantity	1	Used Oil	5.1 of Schedule - I	30 KL / Annam	2	Waste Oil	5.1 of Schedule - I	1 KL / Annam	3	Leak Acid Containers	-	To Nil
																																																				
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xxxiii.	<p>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>	<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>Complying with.</p> <p>Separate Storm Water drainage system constructed.</p> <p>ETP & STP outlet water is reused for green belt development and coal yard dust suppression.</p> <p>ETP & 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>Complying with.</p> <p>STP is fully operational and STP treated water is used for greenbelt, Horticulture and coal dust suppression.</p> <p>STP treated water analysis reports are attached in Annexure– IV.</p> 

S. No.	Condition	Compliance
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>Complying with.</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&CC & APPCB on 27th February 2020.</p> <p>Rainwater Harvesting Pits are in service.</p> 
iv.	<p>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>	<p>Complying with.</p> <p>Layout drawing of fire hydrants & monitors submitted along with EC six monthly compliance report vide letter No. SGPL/MoEF/Chennai/EC/15 dated 5th January 2018.</p> <p>Stockpile Dust Suppression sprinklers installed in all coal yards.</p>
v.	<p>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>	<p>Complying with.</p> <p>CCOE License attached as Annexure- XI.</p>

S. No.	Condition	Compliance
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>Complying with.</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> 
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>Complying with.</p> <p>Quarterly Noise monitoring studies are carried out through APPCB approved laboratory.</p> <p>Reports attached as Annexure- XII.</p>
ix.	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM and Hg shall be carried out in the impact zone and records maintained. If, at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	<p>Complying with.</p> <p>Ambient Air Quality Monitoring carried out by APPCB approved Laboratory and Six-monthly reports submitted to APPCB.</p> <p>Reports attached as Annexure- XIII.</p>

S. No.	Condition	Compliance
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.	Complied.
xi.	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied. Environment clearance letter has been put up on Sembcorp website @ https://www.sembcorpenergyindia.com/AboutUs/Disclosure
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.	Complied. Environment clearance letter has been put up on Sembcorp website @ https://www.sembcorpenergyindia.com/AboutUs/Disclosure
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.	Complying with. Environment Management Cell exists in the plant with one full time Environment Officers with Post Graduation Degree in Environmental Science Engineering, who directly reports to Head HSE- SEIL.

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, SO₂, 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>	<p>Complying with.</p> <p>EC Six monthly compliance reports are being submitted. (Ref: SEIL Project 2/MoEF/Chennai/EC/2020/020 dated 30th June 2020)</p> <p>The reports are uploaded in Sembcorp website @ https://www.sembcorpenergyindia.com/AboutUs/Disclosure.</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>Complying with.</p> <p>EC six monthly compliance reports are being submitted. (Ref: SEIL Project 2/MoEF/Chennai/EC/2020/020 dated 30th June 2020)</p> <p>The reports are uploaded in Sembcorp website @ https://www.sembcorpenergyindia.com/AboutUs/Disclosure</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>Complying with.</p> <p>(Environment Statement in Form- V submitted to APPCB vide letter No. SEIL P2/APPCB/NLR/2020/016 dated 13th 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/2020/020 dated 30th June 2020)</p> <p>The reports are uploaded in Sembcorp website @ https://www.sembcorpenergyindia.com/AboutUs/Disclosure</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 costs 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.	Complied. Submitted Half Yearly Compliance reports included project progress photos and other details.
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.	Complied.