

SEIL P2/MoEF&CC/Chennai/2021/003
30th May 2022

Sembcorp Energy India Limited

CIN: U40103HR2008PLC095648

Regd. Office: 5th Floor, Tower C, Building No 8
DLF Cybercity, Gurgaon - 122002, Haryana, India

Tel (91) 124 389 6700 / 01

Fax (91) 124 389 6710

E-mail: cs.india@sembcorp.com

Website: www.sembcorpenergyindia.com

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

Sub.: Submission of Half Yearly EC Compliance Report of SEIL Project-2 (formerly known as Sembcorp Gayatri Power Limited– SGPL) for the period from October 2021 to March 2022

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

Dear Sir,

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 October 2021 to March 2022 along with supporting documents to the conditions specified with respect to Environmental Clearance issued to SEIL Project-2 (Formerly known as Sembcorp Gayatri Power Limited– SGPL), Nellore.

Hope the above is in order.

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 Joint Director (S), Scientist 'D', MoEF&CC, IRO, Vijayawada
3. The Environmental Engineer (APPCB), Nellore



Date: 30-05-2022

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.

Sub: Third Party Certificate - Half yearly compliance report on conditions of EC-Reg.
Ref: EC Letter No. J 13012/76/2009–IA.II (T) dated 30.09.2010, amended 18.05.2011

Respected Sir/Madam,

With reference to "Environmental Clearance" issued for **M/s. Sembcorp Energy India Limited - Project-2** (Formerly known as Sembcorp Gayatri Power Limited– SGPL), Nellore, we are herewith certifying that **M/s. Sembcorp Energy India Limited - Project-2** has complied all the conditions imposed in EC and attached annexures for the period October 2021 to March 2022.

Thanking you,

Yours faithfully,
For **Universal Enviro Associates,**

T. Krishna
T Krishna
(Technical Manager)



Copy To:

1. The Director, IA.I, MoEF&CC, New Delhi
2. The Joint Director (S), Scientist 'D', MoEF&CC, IRO, Vijayawada
3. The Environmental Engineer, APPCB, Nellore

104 & 105, Libra Enclave, RTC X Roads, Musheerabad, Hyderabad - 500 020.

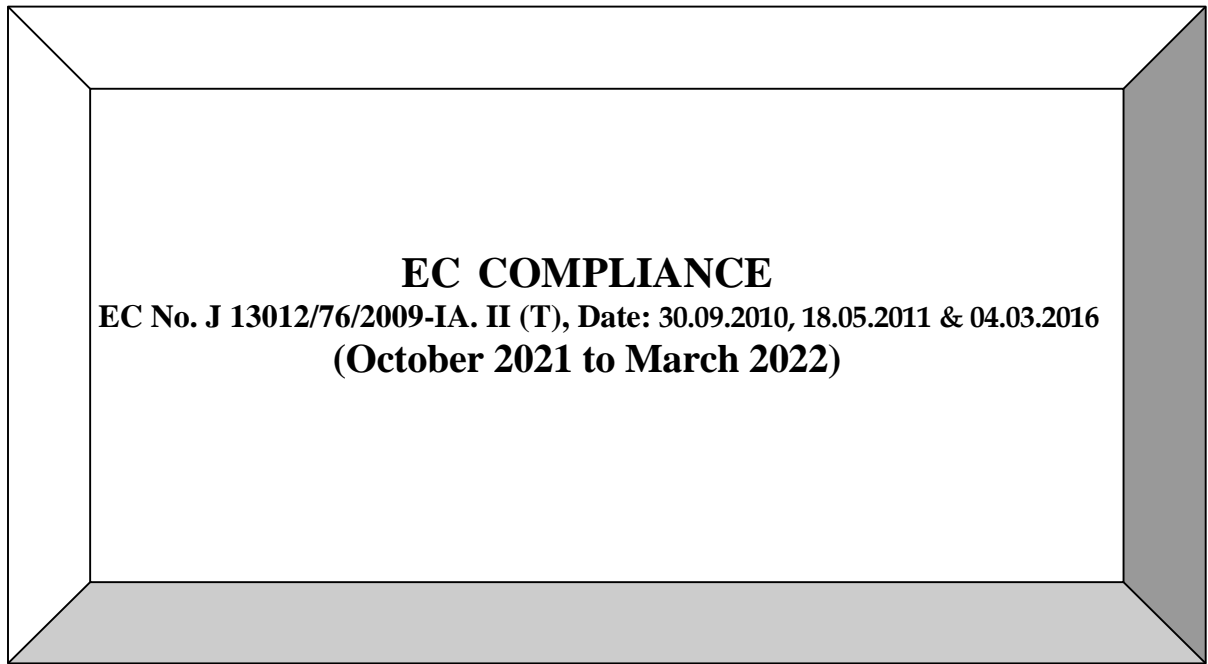
Ph: 040 - 2763 3361, e-mail: uea123@gmail.com, www.universalenviro.in

Lab & Works: # 178, Ramakrishna Nagar, Opp. IOCL, Chengicherla, Hyderabad - 500 039.

WTP, STP, ETP & ZLD (Supply, O&M) | POLLUTION TESTING & ANALYSIS | ENV. AUDIT | OTHER ENV. SERVICES

M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



Prepared By:
Universal Enviro Associates, Hyderabad
Accredited by NABL (TC-6239)



Universal Enviro Associates

M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016

01. Background:

Sembcorp Energy India Ltd (SEIL) Project-2 [formerly known as Sembcorp Gayatri Power Limited (SGPL)] is a leading independent power company in India. SEIL is promoted by Sembcorp Utilities Pvt. Ltd., which is part of the Singapore based Sembcorp Group.

Currently, at SEIL P-2 consists of 2 x 660 MW is under operation since November 2016.

The location map is shown as **Figure-1**. The 10 km radius topographical map around the project is shown in **Figure-2**. The latitude & longitude of North South extremes of Site are 14.350849 & 80.151410 respectively.



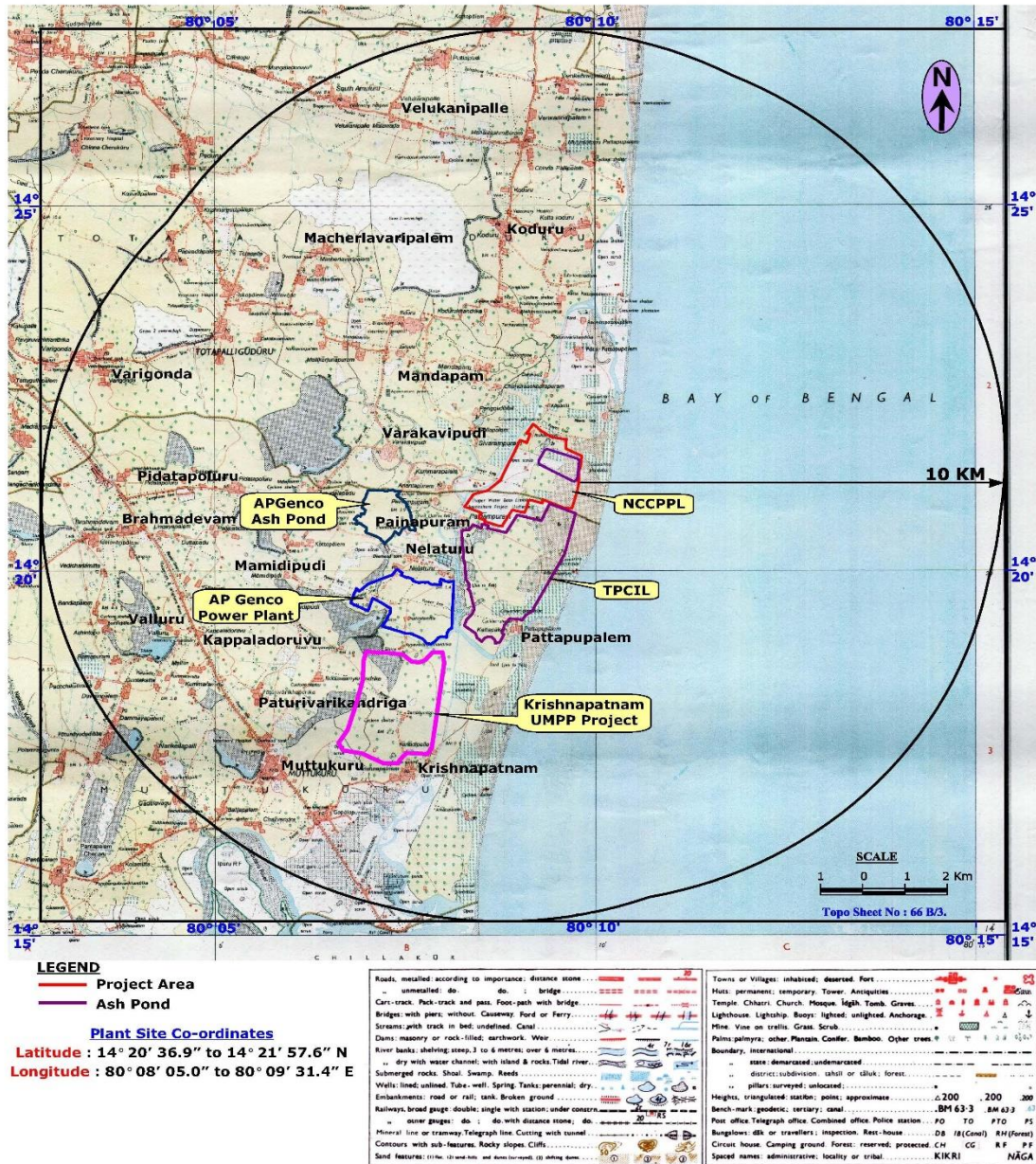
M/s. Sembcorp Energy India Limited Project-2
 (Formerly Known as M/s. Sembcorp Gayatri Power Limited)
 Painampuram & Nelaturu (V), Muthukur (M),
 SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016

Fig. - 1 (LOCATION MAP)



Fig. – 3 (TOPOGRAPHICAL MAP OF 10 KM RADIUS AREA)



STUDY AREA MAP OF 10KM RADIUS

M/s. Sembcorp Energy India Limited Project-2
 (Formerly Known as M/s. Sembcorp Gayatri Power Limited)
 Painampuram & Nelaturu (V), Muthukur (M),
 SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016

02. Statutory Approvals/Clearances:

The following statutory approvals and clearances were received for the Project:

S. No.	Authorization	Accorded By	Validity
1	Environment Clearance	Ministry of Environment & Forests, Govt. of India	MoEF Letter J-13012/76//2009-IA.II (T) dated 30/09/2010. The validity of EC is extended to 7 years by MoEF notification to start operations. Accordingly, SEIL commenced its operations by Sept 2015, well within due date.
2	CRZ Clearance	Ministry of Environment & Forests, GOI	F.No. 11-44/2011-IA.III. Dated: 9 th April, 2012 and amendment on 1 st May 2014
3	Consent for Operation (CFO) for two units	AP Pollution Control Board, Hyderabad	Order No. APPCB/VJA/NLR/182/HO/CFO/2016 Dated: 14 th Dec 2021. Renewed and is valid till 28th February 2027.






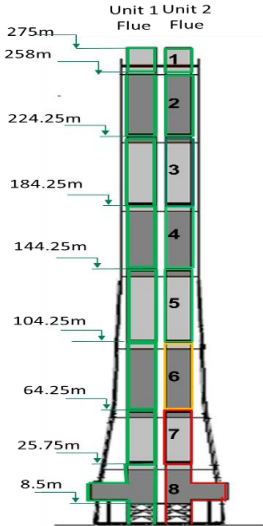
CONDITION WISE COMPLIANCE TO ACCORDED ENVIRONMENT CLEARANCE


S No.	Condition	Compliance
A-Specific Conditions		
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 and amendment on 1 st May 2014). Copy of CRZ Clearance and its amendments attached as Annexure-I .
ii	In case source of fuel supply is to be changed at later stage for the proposed 2x660 MW units now proposed to be run on imported coal from Indonesia, the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for following the change. In such a case the necessary for re-conducting public hearing may be decided by the Ministry in consultation with the Expert Appraisal Committee.	The said condition has been amended as to be read as “Imported” shall be now substituted as “Domestic Coal” and imported coal in the ratio 70:30 shall be used as fuel via EC Amendment Letter No. J. 13012/76/2009- I.A. II (T) issued by MoEF&CC dated 18.05.2011.
iii	The project proponent shall examine in detail the possibility to adopt NIOT technology of desalination plant using Low Temperature Thermal Desalination (LTTD) process. In case the same is not feasible detailed explanation shall be submitted to the Regional Office of the Ministry.	Complied. SEIL Project-2 (formerly known as Sembcorp Gayatri Power Limited– SGPL) has installed RO process for desalination in the place of NIOT LTTD and the same was communicated.



S No.	Condition	Compliance
iv	Local employable youth shall be identified and trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time.	Complying. During October 2021 to March 2022 Sembcorp has supported the local community to fight the global pandemic effect in various ways and SEIL is primarily focused on Health, Education and Skill & Entrepreneurship development programs. CSR Updates from October 2021 to March 2022 attached as Annexure- II .
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] attached as Annexure-III .
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] attached as Annexure-III .



S No.	Condition	Compliance
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] attached as Annexure-III.
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. 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 and APPCB. Also pH, Temperature and TSS parameters of Marine Outfall discharge are connected to CPCB and APPCB online real time monitoring websites. Marine Outfall effluent analysis report attached as Annexure-IV.
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.


S No.	Condition	Compliance
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 & STP effluent treated water is reused for green belt development and coal yard dust suppression.</p>  <p>ETP & STP Effluent analysis reports attached as Annexure-V & Annexure-VI respectively.</p> <p>Marine Outfall effluent analysis reports attached as Annexure-IV.</p>
xii	The marshy areas in the vicinity (if any) shall not be disturbed.	<p>Complied.</p>
xiii	Intake shall be from deep sea to avoid aggregation of fish and other marine creatures.	<p>Complying.</p> 
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.	<p>Complying.</p>

S No.	Condition	Compliance
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>Complying.</p> <p>Ground water is not being used at SEIL. Periodic hydrogeology studies are carried out for the site and surroundings. Hydrogeology Study is being reviewed annually and latest report submitted on 18th April 2022 and the same is attached as Annexure-VII.</p>
xvi	A stack of 275 m height shall be provided with continuous online monitoring equipment for SO _x , NO _x and PM _{2.5} and PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	<p>Complied.</p> <p>Online Continuous Emission Monitoring System (CEMS) is in operation for monitoring PM, Sox & NOx. Flue gas Exit Velocity, Mercury emissions are being monitored through APPCB approved third party and the reports of Stack Emission Monitoring are attached as Annexure-VIII.</p> <p>Stack height of 275m has been provided for wider dispersion of gaseous emissions.</p> <div style="display: flex; align-items: center;">   </div> <p>CEMS platform & installation done at 103 m elevation.</p>

S No.	Condition	Compliance
xvii	Sulphur content in the imported coal shall not exceed 0.60%.	Complying.
xviii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Complying. MoEF&CC and APPCB approved third party reports of Stack Emissions Monitoring attached as Annexure-VIII .
xix	Provision for FGD shall be provided for future use as and when required.	Noted. As per the revised MoEF&CC Notification GSR No.243 (E) dated 31st March, 2021 (Environment (Protection) Act Amendment Rules and Minutes of Task force meeting dated 27.08.2021 for categorization of Power Plants by CPCB, SEIL Project-2 (formerly known as Sembcorp Gayatri Power Limited–SGPL) need to install FGD by 31 st Dec 2024 so as to comply SO _x emission limit. Currently bid evaluation is in progress for installation of FGD.
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.	Complying. Bag filters along with Cyclone Separators, Dust suppression and Dry fog Dust suppression (DFDS) systems installed at coal crusher unit. 


S No.	Condition	Compliance
		
xxi	<p>A detailed coal analysis from a reputed lab for all contracted coal sources for the project shall be submitted within three months.</p>	<p>Complied.</p> <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-IX.</p>
xxii	<p>Utilization of 100% Fly Ash generated shall be made from 4th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.</p>	<p>Complying.</p> <p>SEIL Project-2 (formerly known as Sembcorp Gayatri Power Limited– SGPL) is achieving 100% fly ash utilization since November 2019.</p>  <p>Attached letter submitted to MoEF&CC and CPCB on Annual Fly Ash utilization for FY2021-22 vide letter No. SEIL P2/MoEF&CC/Chennai/2021/002 dated 28th April 2022 as Annexure–X.</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.</p> <p>Fly ash dry collection system is in place. 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 approved third party agency. Reports attached as Annexure-XI & Annexure-XII respectively.</p> <p>Piezometer Bore wells water level monitoring & analysis is carried out on Quarterly basis. Reports attached as Annexure-XIII.</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.	As per the new MoEF & CC guidelines released F.No. 22-13/2019-IA.III dated 28 th 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 is taking 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 at least 1.25 shall be adopted.	Complying.
xxvii	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 75%.	<p>Complied.</p> <p>An area of 350 acres green belt / green cover developed adopting scientific methods like establishment of mist chamber, drip & sprinkler system, vermicompost production & application of bio pesticides.</p> <p>Peripheral planting along inside of the compound wall has been completed with 3 tiers of plantation.</p>

M/s. Sembcorp Energy India Limited Project-2
 (Formerly Known as M/s. Sembcorp Gayatri Power Limited)
 Painampuram & Nelaturu (V), Muthukur (M),
 SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016

S No.	Condition	Compliance
		 <p>The 'Compliance' column contains four photographs arranged vertically. The top photo shows a paved road with a yellow and black striped curb, bordered by a dense row of green grasses and palm trees. The second photo shows a similar road with a mix of green plants and white flowers. The third photo shows a road with a large, well-manicured hedge and palm trees. The bottom photo shows a road with a yellow and black striped curb, a tall black pole, and a dense line of green trees and palm trees in the background.</p>



M/s. Sembcorp Energy India Limited Project-2
 (Formerly Known as M/s. Sembcorp Gayatri Power Limited)
 Painampuram & Nelaturu (V), Muthukur (M),
 SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016


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
xxix	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>Complying.</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. The company has undertaken the following works:</p> <p>CSR Update from October 2021 to March 2022 attached as Annexure-II.</p>




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.</p> <p>Sembcorp Energy India Limited strategically focusing on Health, Education and Skill Development Training Programmes across the community.</p>
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>Complying.</p>


S No.	Condition	Compliance
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.</p> <p>Main gate display provided. Continuously displaying the stack emissions & ambient quality parameters.</p> <p>Company Website can be accessed by clicking on the below link.</p> <p>https://www.sembcorpenergyindia.com/AboutUs/Disclosure</p>  
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</p>	<p>Environmental Policy has been incorporated in the QHSE Policy.</p> <p>QHSE Policy is attached as Annexure- XIV.</p>

	violations (if any) to the Board.	
--	-----------------------------------	--

S No.	Condition	Compliance
B-General Conditions		
i	<p>The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant.</p> <p>There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.</p>	<p>Complying.</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-V & Annexure-VI respectively.</p> <p>Marine Outfall effluent analysis report attached as Annexure-IV.</p>
ii	<p>A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/ plantation.</p>	<p>Complying.</p> <p>STP is fully operational and STP treated water is used for greenbelt development, Horticulture and fugitive dust suppression.</p> <p>STP treated water analysis reports are attached in Annexure- VI.</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.</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.</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. Plant Layout Map attached as Annexure-XV.</p> <p>Stockpile Dust Suppression sprinklers installed in all coal yards.</p>


S No.	Condition	Compliance
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>Complying.</p> <p>Valid CCOE License attached as Annexure- XVI.</p> <p>Emergency Response Plan attached as Annexure-XVII.</p>
vi	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area has not been carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this ministry. The data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to the project.	<p>Complying.</p> <p>Existing bore well data is monitored through approved reputed environmental consultant.</p> <p>Piezo wells are constructed and in service around ash pond and other location of the plant. Ground Water levels monitoring is being carried out on quarterly basis.</p> <p>Piezometer Bore wells analysis reports attached as Annexure–XIII.</p>

vii	<p>First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.</p>	<p>Complied.</p> 
-----	--	---


S No.	Condition	Compliance
Viii	<p>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>	<p>Complying.</p> <p>Quarterly Noise monitoring studies are carried out through APPCB approved laboratory.</p> <p>Reports attached as Annexure-XVIII.</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.</p> <p>Ambient Air Quality Monitoring carried out by MoEF&CC approved Laboratory and Six-monthly reports submitted to APPCB.</p> <p>Reports attached as Annexure- XIX.</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.	Complied during construction phase.
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 http://envfor.nic.in .	<p>Complied.</p> <p>Environment clearance letter has been put up on Sembcorp website @ https://www.sembcorpenergyindia.com/AboutUs/Disclosure</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.	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. SEIL has established an Environment Management Cell with suitable qualified personnel under the supervision of Head-HSE who directly reports to the Station Head. Environmental Management Cell attached as Annexure-XX .

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. EC Six monthly compliance reports are being submitted. (Ref: SEIL P2/ MoEF&CC/ Chennai/ 2021/004 dated 25th November 2021) 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. EC Six monthly compliance reports are being submitted. (Ref: SEIL P2/ MoEF&CC/ Chennai/ 2021/004 dated 25th November 2021) 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 e-mail.</p>	<p>Complying. (Environment Statement in Form-V submitted to APPCB vide letter No. SEIL P2/ APPCB/ BZA/2021/005 dated 28th September 2021) Annexure-XXI</p>
S No.	Condition	Compliance
xvii	<p>The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.</p>	<p>Complied. EC Six Monthly Compliance Reports are being submitted. (Ref: SEIL P2/ MoEF&CC/ Chennai/ 2021/004 dated 25th November 2021) The reports are uploaded in Sembcorp website @ https://www.sembcorpenergyindia.com/AboutUs/Disclosure</p>

<p>xviii</p>	<p>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>	<p>Complied.</p>  <p>The reports were submitted to Ministry during project phase. EIA and EMP are already submitted.</p>
--------------	--	---

S No.	Condition	Compliance
<p>xix</p>	<p>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>	<p>Complying.</p> <p>Funds were spent for implementation of Environment protection measures during the project stage.</p> <p>However, continuous recurring cost for Environment management (EQMS, AAQM, CEMS, Hydro-geology studies & Environment Monitoring etc.) during operation is allocated from Annual budget.</p> <p>Expenditure details attached as Annexure-XXII.</p>

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 including 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.	Complying.
4	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	Noted.

S No.	Condition	Compliance
5.	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the Power Plant.	<p>Noted.</p> <p>The validity of EC is extended to 7 years by MoEF notification.</p> <p>The 2x660 MW project has already commenced operations since 2016.</p>
6.	Concealing factual data or submission of false /fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act 1986.	<p>Noted.</p>
7.	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed to add additional environmental protection measures required, if any	<p>Noted for compliance.</p>
8.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	<p>Noted.</p>

*M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.*

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016

9.	Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of National Environmental Appellate Act, 1997.	Noted.
----	---	---------------



M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



GREEN BELT/ GREEN COVER DEVELOPMENT IN SITE



*M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.*

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



GREEN COVER AROUND PERIPHERY



M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



GREEN COVER ALONG THE PLANT ROADS



M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016

GREEN COVER ALONG PIPE RACK & INTERNAL ROADS



GREEN COVER INSIDE THE PLANT



*M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.*

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



GREEN COVER ALONG MAIN PLANT ROAD



AVENUE PLANTATION



M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



GREEN COVER NEAR PLANT SERVICE BUILDING



GREEN COVER NEAR SERVICE BUILDING



*M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.*

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



GREEN COVER IN NORTH EAST AREA



COAL YARD WATER SPRINKLING



*M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.*

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION INSIDE THE PLANT

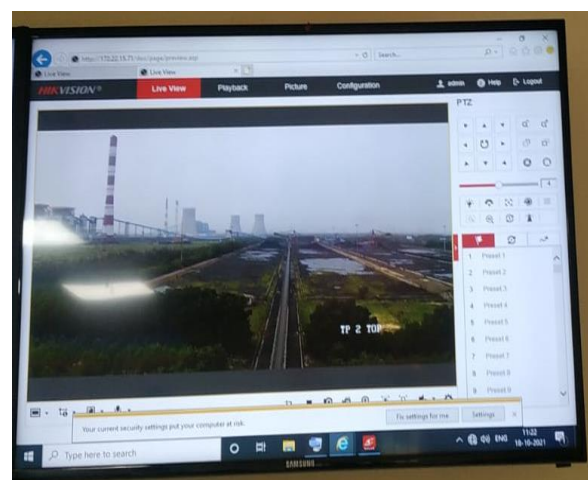


M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



WIND BREAK PLANTATION AROUND COAL YARD



CONTINUOUS MONITORING OF DUST SUPPRESSION SYSTEM AT COAL YARD USING PTZ CAMERAS



*M/s. Sembcorp Energy India Limited Project-2
(Formerly Known as M/s. Sembcorp Gayatri Power Limited)
Painampuram & Nelaturu (V), Muthukur (M),
SPSR Nellore (Dist.), Andhra Pradesh.*

EC No. J 13012/76/2009-IA. II (T), Date: 30.09.2010, 18.05.2011 & 04.03.2016



DUST EXTRACTION SYSTEM AT TRANSFER POINTS



MAIN GATE DISPLAY BOARD - AMBIENT AIR QUALITY & EMISSIONS DATA DISPLAY

