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SEIL P1/APPCB/BZA/2021/001

10th June 2021

Sembcorp Energy India Limited

(Formerly Thermal Powertech Corporation India Ltd)

CIN: U40103TG2008PLC057031

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

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To
The Member Secretary,
Andhra Pradesh Pollution Control Board,
D. No. 33-26-14 D/2, Near Sunrise Hospital
Pushpa Hotel Centre, Chelamavari Street
Kasturibaipet
Vijayawada- 520010.

Sub: **Submission of Half Yearly CFO Compliance Report of SEIL Project-1 (formerly known as Thermal Powertech Corporation India Limited— TPCIL) for the period October 2020 to March 2021**

Ref: Consent Order to SEIL (formerly known as Thermal Powertech Corporation India Limited— TPCIL) Ref: APPCB/VJA/ NLR/930/HO/CFO/2018-: dated 23.03.2018.

Dear Sir,

This has reference to the above subject and cited reference. We are here with submitting the half yearly compliance report for the period from October 2020 to March 2021 against the conditions stipulated under CFO issued to SEIL Project-1 (Formerly known as Thermal Powertech Corporation India Limited— TPCIL), Nellore.

Hope the above is in order.

Thanking you,

Yours faithfully,
For **M/s. Sembcorp Energy India Limited,**

Pavan Kumar Rao V

Head HSE - SEIL

Copy To: The Regional Officer, APPCB, Nellore

**SIX-MONTHLY
CFO COMPLIANCE STATUS REPORT
OF**

Sembcorp Energy India Limited Project-1

(Formerly Known as THERMAL POWERTECH CORPORATION INDIA LTD)

2 X 660 MW COAL FIRED SUPERCRITICAL THERMAL POWER PLANT

AT PAINAMPURAM & NELATURU VILLAGES, MUTHUKUR MANDAL

SPSR NELLORE DISTRICT

ANDHRA PRADESH

INDIA



Period: October 2020 to March 2021



ANDHRA PRADESH POLLUTION CONTROL BOARD

D.No. 33-26-14 D/2. Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada - 520010
Website: www.appcb.ap.nic.in

BY REGD POST WITH ACK. DUE

Consent Amendment Order No: APPCB/VJA/NLR/930/HO/CFO/2018-

Date: 23.03.2018

Sub: APPCB - UH: IV - CFO - M/s. Thermal Powertech Corporation India Limited, Painampuram & Nelaturu Villages, Muthukur Mandal, SPSR Nellore District - Amendment to CFO&HWA Order - Issued - Reg.

Ref: 1. T.O. Consent Order No: APPCB/VJA/NLR/930/HO/CFO/2016-, dated 21.11.2016.
2. Industry's representation letter dated 19.02.2018.
3. CFO Committee Meeting held on 15.03.2018.

The Board in the reference 1st cited, has issued combined CFO&HWA order to M/s. Thermal Powertech Corporation India Limited, Painampuram & Nelaturu Villages, Muthukur Mandal, SPSR Nellore District with validity upto 30.11.2021 duly stipulating conditions.

The industry in the reference 2nd cited, has requested for amendment in name from M/s. Thermal Powertech Corporation India Limited to M/s. SEMBCORP ENERGY INDIA LIMITED stating that fresh certificate of incorporation was issued by the Registrar of Companies (ROC), Hyderabad, Telangana effecting the change of name of the company. The issue was placed in the CFO Committee meeting of the Board held on 15.03.2018 and the committee recommended to issue amendment to the CFO&HWA Order duly incorporating the name change as per the fresh certificate of incorporation issued by the Registrar of Companies (ROC), Hyderabad, Telangana dated 10.02.2018.

The Board after careful examination of the request of the industry, hereby issues amendment to combined CFO & HWA Order issued in the reference 1st cited under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and amendments thereof & under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.

Amendment:

The name of the industry is changed from M/s. Thermal Powertech Corporation India Limited, Painampuram & Nelaturu Villages, Muthukur Mandal, SPSR Nellore District and here after read as below:

**Name: M/s. SEMBCORP ENERGY INDIA LIMITED,
Painampuram & Nelaturu Villages,
Muthukur Mandal, SPSR Nellore District – 524 344, A.P.**

All other conditions mentioned in Schedule – A, B & C of the combined CFO&HWA order issued by the Board in the reference 1st cited including the validity i.e., 30.11.2021 will remain same.

Bandla Siva Sankar
Prasad
MEMBER SECRETARY

To
M/s. SEMBCORP ENERGY INDIA LIMITED,
Painampuram & Nelaturu Villages,
Muthukur Mandal, SPSR Nellore District – 524 344, A.P.
Email: v.maheswaran@sembcorp.com

Copy to:

1. The JCEE, **ZO: Vijayawada** for information and necessary action.
2. The JCEE (**UH: II**), Vijayawada for information.
3. The EE, **RO: Nellore** for information and necessary action.

Condition wise Compliance to

AP Pollution Control Board CFO dt 23rd March 2018

Sr. No.	Condition as per CFO	Compliance Status
Schedule- A		
1	Any upset condition in any industrial plant /activity of the industry, which result in, increase effluent /emission discharge and /or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge/emission below the limits	Complying
2	The industry shall carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.	Complying. Environment Monitoring Reports attached as Annexure-V
3	All the rules & Regulations notified by Ministry of Law and Justice, Government of India regarding Public liability Insurance Act,1991 shall be followed as applicable.	Complying
4	The industry shall put up two sign boards (6X4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.	Complying
5	Notwithstanding anything contained in this consent order the Board hereby reserves the right and powers to review/ revoke any and /or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	Noted
6	The Industry shall file the water cess returns in Form-I as require under Section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5 th of every calender month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water cess as per the assessment order as and when issued by the Board.	As per the Ministry of Finance, Govt. of India with effect from 1 st July 2017 the water cess has been abolished. However, we are submitting the returns once in six months to APPCB.

Condition wise Compliance to


AP Pollution Control Board CFO dt 23rd March 2018

Sr. No.	Condition as per CFO	Compliance Status
7	The applicant shall submit Environment Statement in Form V before 30 th September every year as per Rule no.14 of E(P) Rules 1986 & amendments thereof.	Complying
8	The industry shall make applications through Online for renewal of Consent (Under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The industry shall immediately submit the revised application for consent to this Board in the event of any change in the raw material use, process employed, quantity of trade effluents & Quantity of emissions. Any change in the management shall be informed to the Board. The person authorize shall not let out the premises /lend/sell/transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.	Noted
9	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982 to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act 1981.	Noted

Condition wise Compliance to

AP Pollution Control Board CFO dt 23rd March 2018



Sr. No.	Condition as per CFO	Compliance Status																																															
Schedule- B																																																	
1	<p>The industry shall comply with the following effluent standards based on the disposal points permitted:</p> <table border="1"> <thead> <tr> <th>Outlet</th> <th>Parameter</th> <th>Limiting standards</th> </tr> </thead> <tbody> <tr> <td rowspan="13">1to3</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 & Grease</td> <td>10 mg/l</td> </tr> <tr> <td>Temperature</td> <td>Shall not exceeded 5° C above the receiving water temperature</td> </tr> <tr> <td>Biochemical oxygen demand (3 days at 27°C)</td> <td>100 mg/l</td> </tr> <tr> <td>Chemical Oxygen Demand (COD)</td> <td>250 mg/l</td> </tr> <tr> <td>Arsenic</td> <td>0.2 mg/l</td> </tr> <tr> <td>Mercury</td> <td>0.01 mg/l</td> </tr> <tr> <td>Lead</td> <td>2.0 mg/l</td> </tr> <tr> <td>Cadmium</td> <td>2.0 mg/l</td> </tr> <tr> <td>Hexavalent Chromium</td> <td>1.0 mg/l</td> </tr> <tr> <td>Bio-assay test</td> <td>90% survival fish after 96 hours in 100% effluents</td> </tr> <tr> <td rowspan="10">5 to 8</td> <td>pH</td> <td>5.5 - 9.0</td> </tr> <tr> <td>Suspended solids</td> <td>100 mg/l</td> </tr> <tr> <td>Oil & Grease</td> <td>10 mg/l</td> </tr> <tr> <td>Biochemical oxygen demand (3 days at 27°C)</td> <td>100 mg/l</td> </tr> <tr> <td>Arsenic (as As)</td> <td>0.2 mg/l</td> </tr> <tr> <td>Cyanide (as CN)</td> <td>0.2 mg/l</td> </tr> <tr> <td>Bio-assay test</td> <td>90% survival fish after 96 hours in 100% effluents</td> </tr> <tr> <td>Copper (Total)</td> <td>1 mg/l</td> </tr> <tr> <td>Iron (Total)</td> <td>1 mg/l</td> </tr> </tbody> </table>	Outlet	Parameter	Limiting standards	1to3	pH	6.5 to 8.5	Suspended solids	100 mg/l	Oil & Grease	10 mg/l	Temperature	Shall not exceeded 5° C above the receiving water temperature	Biochemical oxygen demand (3 days at 27°C)	100 mg/l	Chemical Oxygen Demand (COD)	250 mg/l	Arsenic	0.2 mg/l	Mercury	0.01 mg/l	Lead	2.0 mg/l	Cadmium	2.0 mg/l	Hexavalent Chromium	1.0 mg/l	Bio-assay test	90% survival fish after 96 hours in 100% effluents	5 to 8	pH	5.5 - 9.0	Suspended solids	100 mg/l	Oil & Grease	10 mg/l	Biochemical oxygen demand (3 days at 27°C)	100 mg/l	Arsenic (as As)	0.2 mg/l	Cyanide (as CN)	0.2 mg/l	Bio-assay test	90% survival fish after 96 hours in 100% effluents	Copper (Total)	1 mg/l	Iron (Total)	1 mg/l	<p>Complying.</p> <p>Effluent Quality Monitoring Reports performed by third Party consultant which is approved by APPCB are attached as Annexure– I.</p>
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2		<p>The source of water is sea. The following is the permitted water consumption:</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Purpose</th> <th>Quantity in KLD (for 2X660 MW)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>For cooling tower make up (saline water)</td> <td>1,98,256</td> </tr> <tr> <td>2.</td> <td>Non-cooling water - RO First pass</td> <td></td> </tr> <tr> <td></td> <td>i) Ash handling sealing</td> <td>2240</td> </tr> <tr> <td></td> <td>ii) Coal handling plant dust suppression</td> <td>4768</td> </tr> <tr> <td></td> <td>iii) High Vacuum AC make up</td> <td>1660</td> </tr> <tr> <td></td> <td>iv) Misc. services (for firefighting etc.)</td> <td>512</td> </tr> <tr> <td></td> <td>v) RO Reject</td> <td>22224</td> </tr> <tr> <td></td> <td>vi) Clarifier blow down</td> <td>1056</td> </tr> <tr> <td></td> <td>RO Second pass</td> <td></td> </tr> <tr> <td></td> <td>i. DM Plant</td> <td>2080</td> </tr> <tr> <td></td> <td>ii. Domestic (Plant)</td> <td>50</td> </tr> <tr> <td></td> <td>Total</td> <td>2,32,846</td> </tr> </tbody> </table> <p>Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above for CESS assessment purpose.</p>	S. No	Purpose	Quantity in KLD (for 2X660 MW)	1.	For cooling tower make up (saline water)	1,98,256	2.	Non-cooling water - RO First pass			i) Ash handling sealing	2240		ii) Coal handling plant dust suppression	4768		iii) High Vacuum AC make up	1660		iv) Misc. services (for firefighting etc.)	512		v) RO Reject	22224		vi) Clarifier blow down	1056		RO Second pass			i. DM Plant	2080		ii. Domestic (Plant)	50		Total	2,32,846	<p>Complied.</p> <p>The average seawater with drawl during October 2020 to March 2021 is well within permissible limits.</p> <p>Separate water meters are provided for Cooling Tower make up and also for Non-cooling water system.</p>							
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Sr. No.	Condition as per CFO	Compliance Status												
3	The industry shall provide separate digital water meters in the intake point of sea water (i.e. at sea coast) with totalizer facility to assess daily water consumption quantity instead of cumulative water consumptions.	<p>Complying.</p> <p>Separate digital water meters with totalizer facility are provided for Cooling Tower make-up and Desalination system. Monthly totalizer readings are being captured jointly along with Port Conservator, Govt. of India in a separate log book.</p>												
4	The industry shall comply with the MoEF&CC notification S.O. 3305(E), dated 07.12.2015 and S.O. 682 (E), dated 07.03.2016 as applicable pertaining to water consumption and report compliance to RO: Nellore.	<p>Not Applicable for SEIL.</p> <p>The exemption notification is issued by MoEF&CC vide notification GSR 593(E) dated 28th June 2018.</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Industry</th> <th>Parameter</th> <th>Standards</th> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </thead> <tbody> <tr> <td>“5B.</td> <td>Thermal Power Plant (water consumption limit) using sea water</td> <td>Water consumption</td> <td>Items I to III in column 4 in serial number 5A above shall not be applicable to the Thermal Power Plants using sea water”;</td> </tr> </tbody> </table>	Sl. No.	Industry	Parameter	Standards	1	2	3	4	“5B.	Thermal Power Plant (water consumption limit) using sea water	Water consumption	Items I to III in column 4 in serial number 5A above shall not be applicable to the Thermal Power Plants using sea water”;
Sl. No.	Industry	Parameter	Standards											
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“5B.	Thermal Power Plant (water consumption limit) using sea water	Water consumption	Items I to III in column 4 in serial number 5A above shall not be applicable to the Thermal Power Plants using sea water”;											
5	The industry shall maintain separate flow meters preferably Electro Magnetic Flow meters with totalisers for water and effluent quantity measurements for different streams of effluents and different categories of water usage stipulated in this order.	<p>Complying.</p> <p>SEIL has provided separate flow meters with totalizers for quantity measurement:</p> <ul style="list-style-type: none"> • Cooling Tower Makeup • Desalination water • Cooling Tower blowdown • RO Reject water • ETP outlet 												
6	The industry shall provide leachate collection tank to collect the leachate from garland drain of ash pond.	<p>Complying.</p> <p>The Ash pond is provided with garland drains all around to collect leachates, if any. Separate Leachate collection tank connected to all the garland drains of Ash Pond.</p> 												

Sr. No.	Condition as per CFO	Compliance Status												
7	The industry shall provide provision to collect the excess water from the ash pond into sea to control overflow of saline water from ash pond and to prevent irrigation tanks being polluted.	<p>Complying.</p> <p>SEIL has ensured adequate provision at ash pond having an overflow lagoon connected to decantation well of both lagoons and the water is recirculated to ash handling system for reuse.</p>												
8	<p>The emissions shall not contain constituents in excess of the prescribed limits mentioned below:</p> <table border="1"> <thead> <tr> <th>Chimney No</th> <th>Parameter</th> <th>Emission standards</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1&2</td> <td>Particular Matter</td> <td>50 mg/Nm³</td> </tr> <tr> <td>Sulphur Dioxide</td> <td>*200 mg/Nm³</td> </tr> <tr> <td>Oxides of Nitrogen</td> <td>*300 mg/Nm³</td> </tr> <tr> <td>Mercury</td> <td>*0.03 mg/Nm³</td> </tr> </tbody> </table> <p>*The thermal power plant shall meet the limits on or before 7th December, 2017 as per MoEF&CC Notification S.O. 3305 (E) dated 07.12.2015.</p>	Chimney No	Parameter	Emission standards	1&2	Particular Matter	50 mg/Nm ³	Sulphur Dioxide	*200 mg/Nm ³	Oxides of Nitrogen	*300 mg/Nm ³	Mercury	*0.03 mg/Nm ³	<p>SEIL is Complying with the Emission norms of Particulate Matter.</p> <p>Stack Emission Monitoring Reports performed by third Party consultant which is approved by APPCB are attached as Annexure– II.</p> <p>Mercury emissions through SEIL Stack is well within permissible limits.</p> <p>Complying. with reference to Amendment in Notification G.S.R. 662(E) dated 19th October 2020, NOx limits for TPPs installed after 1st January 2003, upto 31st December 2016 has been substituted to 450 mg/Nm³ from 300 mg/Nm³.</p> <p>SEIL P-1 will follow CPCB guidelines from time to time.</p> <div style="border: 1px solid black; padding: 5px;"> <p>NOW, THEREFORE, taking into consideration all material facts including environmental concerns and ensuring stability of power supply and need for phasing the implementation, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, following directions are issued to M/s Thermal Powertech Corporation India Ltd :</p> <ol style="list-style-type: none"> i. That plant shall install/retrofit Electrostatic Precipitators (ESP immediately so as to comply PM emission limit ii. That plant shall install FGD by December 31, 2021 in unit 1&2 respectively so as to comply SO₂ emission limit iii. That plant shall take immediate measure like installation of low NO_x burners, providing Over Fire Air (OFA) etc. and achieve progressive reduction so as to comply NOx emission limit by the year 2022 </div>
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Sr. No.	Condition as per CFO	Compliance Status
9	<p>The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10µm)- 100 µg/m³; PM2.5 (Particulate Matter size less than 2.5 µm)- 60 µg/m³; SO₂- 80 µg/m³; NO_x - 80 µg/m³, outside the factory premises at the periphery of the industry.</p> <p>Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.</p> <p>Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A) Night time (10 PM to 6 AM) - 70 dB (A)</p>	<p>Complying.</p> <p>SEIL is complying with Ambient Air Quality parameters as prescribed in NAAQMS Standards.</p> <p>Ambient Air Quality Monitoring reports conducted by third party consultant which is approved by APPCB attached as Annexure-III.</p>
10	<p>The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.</p>	<p>Complying.</p> <p>SEIL is complying with the emission norms.</p>

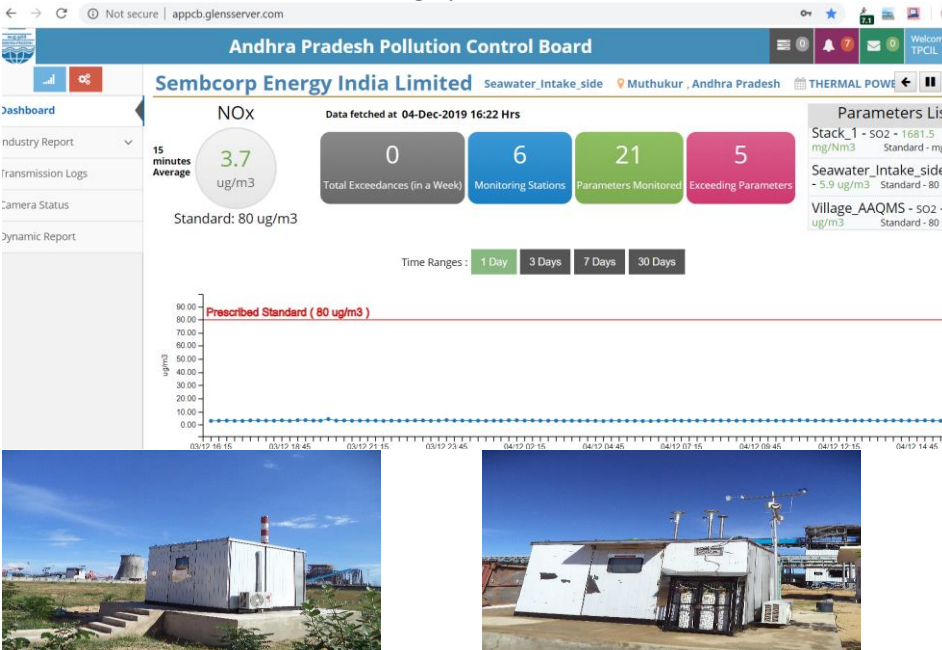
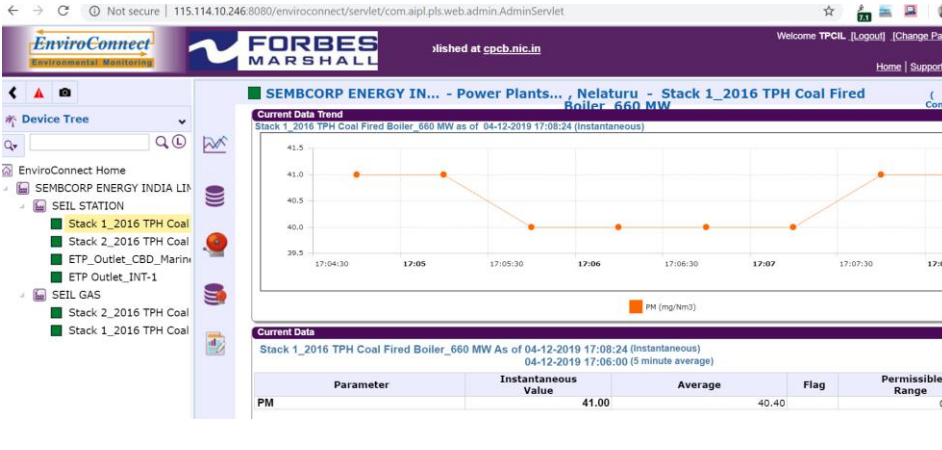
Sr. No.	Condition as per CFO	Compliance Status
11	<p>The industry shall provide closed sheds for storage of coal. The industry shall provide wind barriers/ wind breaking walls to the coal yards as temporary arrangement to control fugitive dust emissions on immediate surroundings.</p>	<p>SEIL has provided wind barriers all around coal yard with thick Conocorpus trees. SEIL has transplanted adequate matured plants around coal yard.</p>  <p>In addition, SEIL has installed adequate water sprinklers with water hydrant system in coal yard to mitigate fugitive emission.</p>  <p>SEIL has a coal yard of 150 acre and it is technically and operationally not feasible to construct closed sheds in the total coal yard area post erection and commissioning.</p> <p>The same has been submitted to the SPCB during Taskforce committee meetings of Aug 2016 & Dec 2017.</p>


Sr. No.	Condition as per CFO	Compliance Status
12	The industry shall provide water sprinklers around the ash pond area to control fugitive emissions in the surrounding area within 2 months and report compliance to RO: Nellore.	<p>Complying.</p> <p>SEIL has provided water sprinklers around the ash pond to prevent fugitive emission.</p> 
13	The industry shall regularly operate water sprinklers provided at the coal stock yard to mitigate fugitive dust on the surroundings from coal handling area.	<p>Complying.</p> <p>SEIL has installed adequate water sprinklers with water hydrant system in coal yard to mitigate fugitive emission. Water consumption on monthly basis is being submitted attached as Annexure-VI</p> 

Sr. No.	Condition as per CFO	Compliance Status
14	The industry shall provide necessary air pollution control systems at coal transfer points in coal conveyer system from port boundary to industry premises within 3 months.	<p>Complying.</p> <p>Entire coal transportation from port boundary to industry premises is through closed pipe conveyors. All the coal transfer points and coal crusher are provided with bag filter (Dust Extraction [DE] System).</p>  <p>DE system at Transfer points</p>
15	The industry shall upgrade the air pollution control systems at coal crusher within 3 months.	<p>Complying.</p> <p>Coal crusher is provided with bag filter system. (Dust Extraction [DE] System)</p>  <p>DE system at Crusher House</p>

Sr. No.	Condition as per CFO	Compliance Status
16	The industry shall provide separate energy meters along with totalizer facility for each ESP.	Complying. SEIL has provided separate energy meters to ESPs.
17	The industry shall comply with the MoEF&CC Notification S.O. 3305(E), dated 07.12.2015 and S.O. 682 (E), dated 07.03.2016 as applicable and report compliance to RO: Nellore.	<p>As per CPCB directions letter [Reference No: B-33014/07/2017-18/IPC-II/TPP/15840 Dtd. 11th Dec 2017, SEIL shall be commissioning Flue Gas Desulfurization System (FGD) to meet the SO_x limits.</p> <p>Complying.</p> <p>With reference to Amendment in Notification G.S.R. 662(E) dated 19th October 2020, NO_x limits for TPPs installed after 1st January 2003, up to 31st December 2016 has been substituted to 450 mg/Nm³ from 300 mg/Nm³.</p> <p>SEIL P-1 will follow CPCB guidelines from time to time.</p> <div style="border: 1px solid black; padding: 5px;"> <p>NOW, THEREFORE, taking into consideration all material facts including environmental concerns and ensuring stability of power supply and need for phasing the implementation, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, following directions are issued to M/s Thermal Powertech Corporation India Ltd :</p> <ul style="list-style-type: none"> i. That plant shall install/retrofit Electrostatic Precipitators (ESP) immediately so as to comply PM emission limit ii. That plant shall install FGD by December 31, 2021 in unit 1&2 respectively so as to comply SO₂ emission limit iii. That plant shall take immediate measure like installation of low NO_x burners, providing Over Fire Air (OFA) etc. and achieve progressive reduction so as to comply NO_x emission limit by the year 2022 </div>
18	The industry shall handover the Original Consent Order dated 15.02.2016 to the RO: Nellore after receipt of this CFO order.	Complied and the Consent Order dated 15.02.2016 has been handed over to the APPCB Regional Officer, Nellore.
19	The drums containing chemicals / solvents shall be stored under a roof on elevated platform with a provision to collect leakages / spillages in the collection pit.	Complying. All the chemicals / solvents containing drums are stored under a roof on elevated platforms with the provision of secondary containment system.

Sr. No.	Condition as per CFO	Compliance Status												
20	<p>The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:</p> <p>a. Daily production details (ER-1 Central Excise Returns).</p> <p>b. Quantity of Effluents generated, treated, recycled/ reused and disposed.</p> <p>c. Log Books for pollution control systems.</p> <p>d. Characteristics of ambient air, effluents and emissions.</p> <p>e. Hazardous/Non-Hazardous solid waste generated and disposed.</p> <p>f. Inspection book.</p> <p>g. Manifest copies of hazardous waste.</p>	<p>Complying.</p> <p>All such applicable records are being regularly maintained.</p>												
21	<p>The industry shall dispose solid waste (NON-HAZARDOUS) as follows</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Name of the Solid Waste</th> <th>Quantity</th> <th>Disposal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fly Ash</td> <td>0.96 Million Tons/ Annum</td> <td>To Cement / brick units</td> </tr> <tr> <td>2</td> <td>Bottom Ash</td> <td>0.24 Million Tons/ Annum</td> <td>To cement, brick manufacturing units. Unutilized bottom ash to ash pond in slurry mode</td> </tr> </tbody> </table>	S. No.	Name of the Solid Waste	Quantity	Disposal	1	Fly Ash	0.96 Million Tons/ Annum	To Cement / brick units	2	Bottom Ash	0.24 Million Tons/ Annum	To cement, brick manufacturing units. Unutilized bottom ash to ash pond in slurry mode	<p>Complying.</p> <p>Fly ash is being collected in dry form and stored in silos of 3 x 2000 cum capacity for disposal to various users.</p>  <ul style="list-style-type: none"> • SEIL has achieved 100% fly ash utilization by June 2018. • Efforts are on to sustain the 100% utilization of Fly Ash and achieved the same during the period from October 2020 to March 2021. • Bottom ash is mixed with seawater and it is being pumped to ash pond through lean slurry form. <p>SEIL has installed and commissioned Fly Ash classification unit of 5 Lakh Tonne per annum within the site for facilitating exports.</p> <p>SEIL is exporting fly ash to USA & Middle East.</p>
S. No.	Name of the Solid Waste	Quantity	Disposal											
1	Fly Ash	0.96 Million Tons/ Annum	To Cement / brick units											
2	Bottom Ash	0.24 Million Tons/ Annum	To cement, brick manufacturing units. Unutilized bottom ash to ash pond in slurry mode											
22	<p>The industry shall relocate the CAAQM station provided at sea intake point to suitable location in consultation with RO: Nellore.</p>	<p>Complied.</p> <p>SEIL has provided 4 No's of Continuous AAQM stations to cover both upwind and downwind directions for all the seasons.</p>												

Sr. No.	Condition as per CFO	Compliance Status
23	<p>The industry shall operate CAAQM stations for monitoring SPM, SO₂, and NO_x with recording facility and maintain connectivity to PCB server.</p>	<p>Complying.</p> <p>The Ambient Air Quality of the plant area and surroundings is being continuously monitored by using 4 No's of Continuous Air Quality Monitoring CAAQMS Stations. The data is being uploaded to PCB server on real-time basis.</p> 
24	<p>The industry shall install online effluent and stack monitoring systems for specified parameters as per CPCB directions dated 05.02.2014 & 02.03.2015 and maintain connectivity to APPCB/CPCB websites.</p>	<p>SEIL has provided Online Stack Emission Monitoring system & Effluent Quality Monitoring system and connected with the CPCB website.</p> 
25	<p>The industry shall carryout regular calibration for the on-line stack monitoring systems and CAAQM stations with tamper proof mechanism.</p>	<p>Complying.</p> <p>Regular calibration of the CAAQMS system is being done. Also the CEMS system is provided with online Remote Calibration facility.</p>

Sr. No.	Condition as per CFO	Compliance Status
26	The industry shall dispose 100% of fly ash generated as per the Fly ash Notification.	<p>Complying.</p> <p>SEIL has attained 100% fly ash utilization by June 2018. SEIL is making all out efforts to sustain 100% utilization of fly ash and achieved the same during the period from October 2020 to March 2021. MoUs are signed with brick manufacturers, traders and cement plants for ash utilization.</p> <p>SEIL has installed and commissioned Fly Ash classification unit of 5 Lakh Tonne per annum within the site for facilitating exports.</p> <p>SEIL is exporting fly ash to USA & Middle East.</p>
27	The industry shall develop the thick green belt in an area of 395 acres covering all along the periphery of the industry, coal stack yard and ash pond area.	<p>Complying.</p> 
28	The industry shall submit a copy of policy of Public Liability Insurance (PLI) duly indicating the amount contributed towards Environmental Relief Fund (ERF) to the RO once in six months.	<p>Complying.</p> <p>The renewal copies of PLI are submitted to APPCB Regional office on regular basis. (Policy Number: 03040058050000 Policy Effective from 19/11/2020 to 18/11/2021) PLI Policy attached as Annexure-IV</p>

Sr. No.	Condition as per CFO	Compliance Status
29	The industry shall comply with Board directions issued from time to time.	Noted.
30	The industry shall comply with standards and directions issued by CPCB / MoEF & CC as and when notifications are issued.	Noted.
31	The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1 st of January and July of every year to the Regional Office/ Zonal Office.	Complying. SEIL Project 1 (formerly known as Thermal Powertech corporation India Limited– TPCIL) has submitted the six-monthly CFO compliance report to APPCB vide letter No: SEIL/APPCB/BZA/2020/023 dated 28.12.2020.
Schedule- C		
1	All the rules and regulations notified by Ministry of Environment and Forests, Government of India under the E(P) Act, 1986 in respect of management, handling, transportation and storage of the Hazardous wastes should be followed.	Complying. SEIL P1 has been registered in APEMC portal as a waste generator to dispose the waste along with required compliance.
2	The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.	Complying. Disposal of Hazardous wastes being done through APEMC Authorized Waste Receivers as per HWM rules.
3	The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.	Complying. SEIL Project-1 is storing the Used / Waste Oil and Used Lead Acid Batteries under a secured hazardous storage shed and disposing through APEMC Authorized Receivers.
4	The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concern Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.	Complying. Hazardous waste disposal is being done through APEMC online portal to authorized waste Receivers by following Manifest system as per HWM rules, 2016.

Sr. No.	Condition as per CFO	Compliance Status
5	The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.	<p>Complying.</p> <p>SEIL P-1 is maintaining Hazardous waste records in Form-3.</p> <p>SEIL Project-1 has submitted the Hazardous Waste Annual returns in Form- 4 to APPCB vide SEIL P1/APPCB/Nellore/2020/012 dated 02.04.2020.</p>