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SEIL/APPCB/BZA/2020/023  
28<sup>th</sup> December 2020

**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  
Tel (91) 124 389 6700 / 01  
Fax (91) 124 389 6710  
www.sembcorpenergyindia.com

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.

Dear Sir,


**Sub: Submission of Half Yearly CFO Compliance Report of SEIL (formerly known as Thermal Powertech Corporation India Limited— TPCIL) for the period April 2020 to September 2020**

**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.**

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

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

# COMPLIANCE STATUS REPORT OF

## **Sembcorp Energy India Limited**

*(Formerly Known as THERMAL POWERTECH CORPORATION INDIA LTD)*

*PAINAMPURAM & NELATURU VILLAGES, MUTHUKUR MANDAL*

*SPSR NELLORE DISTRICT*

*ANDHRA PRADESH*



*Compliance to Consent for Operation (CFO) Conditions*

*Period: April 2020 to September 2020*



## 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.

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The Board in the reference 1<sup>st</sup> 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 2<sup>nd</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> 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 for AP Pollution Control Board CFO dtd. 23<sup>rd</sup> March 2018**



Sr. No.	Condition as per CFO	Compliance																																															
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="14">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 &amp; 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 &amp; 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><b>Complying with.</b></p> <p>Document pertaining for Test reports through consultant party approved by APPCB.</p>
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Sr. No.	Condition as per CFO	Compliance												
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><b>Complying with.</b></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><b>Not Applicable for SEIL.</b></p> <p>The exemption notification is issued by MoEF&amp;CC vide notification GSR 593(E) dated 28<sup>th</sup> 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”;
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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><b>Complying with.</b></p> <p>SEIL has provided separate flow meters with totalizers for quantity measurement:</p> <ul style="list-style-type: none"> <li>• Cooling Tower Makeup</li> <li>• Desalination water</li> <li>• Cooling Tower blowdown</li> <li>• RO Reject water</li> <li>• ETP outlet</li> </ul>												
6	The industry shall provide leachate collection tank to collect the leachate from garland drain of ash pond.	<p><b>Complying with.</b></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												
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><b>Complying with.</b></p> <p>SEIL 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&amp; 2</td> <td>Particular Matter</td> <td>50 mg/Nm<sup>3</sup></td> </tr> <tr> <td>Sulphur Dioxide</td> <td>*200 mg/Nm<sup>3</sup></td> </tr> <tr> <td>Oxides of Nitrogen</td> <td>*300 mg/Nm<sup>3</sup></td> </tr> <tr> <td>Mercury</td> <td>*0.03 mg/Nm<sup>3</sup></td> </tr> </tbody> </table> <p>*The thermal power plant shall met the limits on or before 7<sup>th</sup> December, 2017 as per MoEF&amp;CC Notification S.O. 3305 (E) dated 07.12.2015.</p>	Chimney No	Parameter	Emission standards	1& 2	Particular Matter	50 mg/Nm <sup>3</sup>	Sulphur Dioxide	*200 mg/Nm <sup>3</sup>	Oxides of Nitrogen	*300 mg/Nm <sup>3</sup>	Mercury	*0.03 mg/Nm <sup>3</sup>	<p>SEIL is complying with the Emission norms of Particulate Matter. Document pertaining for Test reports through consultant party approved by APPCB.</p> <p>Mercury emissions through SEIL Stack is well with in permissible limits.</p> <p>As per CPCB directions letter [Reference No: B-33014/07/2017-18/IPC-II/TPP/15840 Dtd. 11<sup>th</sup> Dec 2017, SEIL shall be commissioning FGD to meet the SO<sub>x</sub> limits.</p> <p><b>Complying with.</b> with reference to Amendment in Notification G.S.R. 662(E) dated 19<sup>th</sup> October 2020, NO<sub>x</sub> limits for TPPs installed after 1<sup>st</sup> January 2003, upto 31<sup>st</sup> December 2016 has been substituted to 450 mg/Nm<sup>3</sup> from 300 mg/Nm<sup>3</sup>.</p> <p>Contract award is in progress for installation of FGD.</p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">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"> <li>i. That plant shall install/retrofit Electrostatic Precipitators ( ESP) immediately so as to comply PM emission limit</li> <li>ii. That plant shall install FGD by December 31, 2021 in unit 1&amp;2 respectively so as to comply SO<sub>2</sub> emission limit</li> <li>iii. That plant shall take immediate measure like installation of low NO<sub>x</sub> burners, providing Over Fire Air ( OFA) etc. and achieve progressive reduction so as to comply NO<sub>x</sub> emission limit by the year 2022</li> </ol> </div>
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Sr. No.	Condition as per CFO	Compliance
9	<p>The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10µm)- 100 µg/m<sup>3</sup>; PM2.5 (Particulate Matter size less than 2.5 µm)- 60 µg/m<sup>3</sup>; SO<sub>2</sub>- 80 µg/m<sup>3</sup>; NO<sub>x</sub> - 80 µg/m<sup>3</sup>, 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><b>Complying with.</b></p> <p>SEIL is complying with the Ambient Air Quality parameters as prescribed in NAAQMS Standards.</p> <p>Document pertaining for Ambient Air Quality Monitoring reports conducted by third party consultant which is approved by APPCB.</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><b>Complying with.</b></p> <p>SEIL is complying with the emission norms.</p>

Sr. No.	Condition as per CFO	Compliance
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 &amp; Dec 2017.</p>

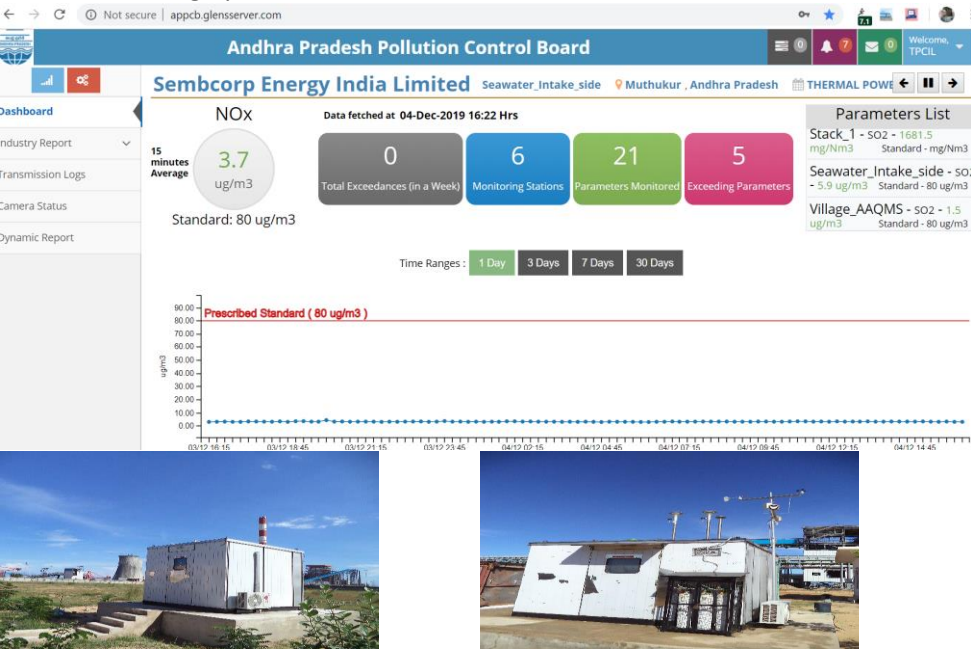
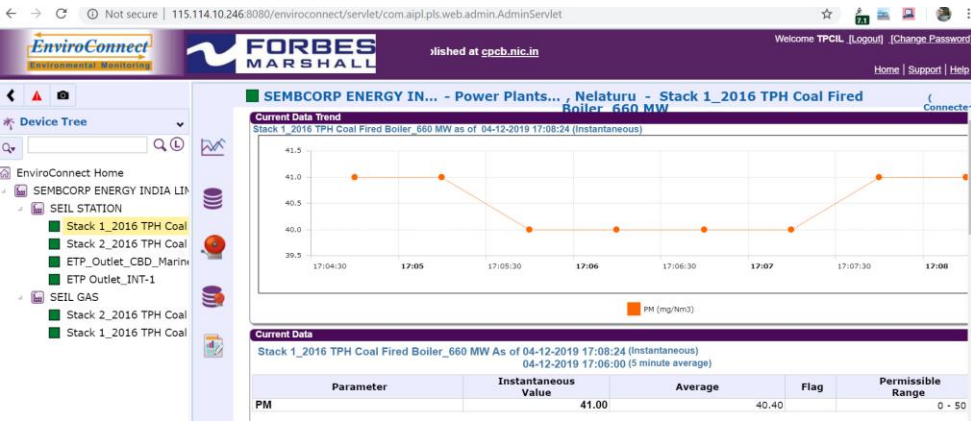
Sr. No.	Condition as per CFO	Compliance
12	<p>The industry shall provide water sprinklers around the ash pond area to control fugitive emissions in the surrounding area within 2 months and report compliance to RO: Nellore.</p>	<p><b>Complying with.</b></p> <p>SEIL has provided water sprinklers around the ash pond to prevent fugitive emission.</p> 
13	<p>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>	<p><b>Complying with.</b></p> <p>SEIL has installed adequate water sprinklers with water hydrant system in coal yard to mitigate fugitive emission.</p> 

Sr. No.	Condition as per CFO	Compliance
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><b>Complying with.</b></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 style="text-align: center;">DE system at Transfer points</p>
15	The industry shall upgrade the air pollution control systems at coal crusher within 3 months.	<p><b>Complying with.</b></p> <p>Coal crusher is provided with bag filter system. (Dust Extraction [DE] System)</p>  <p style="text-align: center;">DE system at Crusher House</p>


Sr. No.	Condition as per CFO	Compliance
16	The industry shall provide separate energy meters along with totalizer facility for each ESP.	<p><b>Complying with.</b> SEIL has provided separate energy meters to ESPs.</p>
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. 11<sup>th</sup> Dec 2017, SEIL shall be commissioning Flue Gas Desulfurization System (FGD) to meet the SO<sub>x</sub> limits.</p> <p><b>Complying with.</b></p> <p>With reference to Amendment in Notification G.S.R. 662(E) dated 19<sup>th</sup> October 2020, NO<sub>x</sub> limits for TPPs installed after 1<sup>st</sup> January 2003, up to 31<sup>st</sup> December 2016 has been substituted to 450 mg/Nm<sup>3</sup> from 300 mg/Nm<sup>3</sup>.</p> <p>Contract award is in progress for installation of FGD.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">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"> <li>i. That plant shall install/retrofit Electrostatic Precipitators ( ESP) immediately so as to comply PM emission limit</li> <li>ii. That plant shall install FGD by December 31, 2021 in unit 1&amp;2 respectively so as to comply SO<sub>2</sub> emission limit</li> <li>iii. That plant shall take immediate measure like installation of low NO<sub>x</sub> burners, providing Over Fire Air ( OFA) etc. and achieve progressive reduction so as to comply NO<sub>x</sub> emission limit by the year 2022</li> </ul> </div>
18	The industry shall handover the Original Consent Order dated 15.02.2016 to the RO: Nellore after receipt of this CFO order.	<p><b>Complied</b> and the Consent Order dated 15.02.2016 has been handed over to the APPCB Regional Officer, Nellore.</p>
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.	<p><b>Complying.</b> All the chemicals / solvents containing drums are stored under a roof on elevated platforms with the provision of secondary containment system.</p>

Sr. No.	Condition as per CFO	Compliance												
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><b>Complying with.</b></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><b>Complying with.</b></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"> <li>SEIL has achieved 100% fly ash utilization by June 2018.</li> <li>Efforts are on to sustain the 100% utilization of Fly Ash and achieved the same during the period from April 2020 to September 2020.</li> <li>Bottom ash is mixed with seawater and it is being pumped to ash pond through lean slurry form.</li> </ul> <p>SEIL has installed 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.</p> <p>According to the Office Memorandum of MoEF&amp;CC dated 28<sup>th</sup> Aug 2019, EC conditions of thermal power plants are suitably amended to allow the usage of fly ash for low lying area filing. SEIL is in the process of taking necessary steps in lieu of the same.</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											

Sr. No.	Condition as per CFO	Compliance
22	The industry shall relocate the CAAQM station provided at sea intake point to suitable location in consultation with RO: Nellore.	<b>Complied with.</b> SEIL has provided 4 No's of Continuous AAQM stations to cover both upwind and downwind directions for all the seasons.

Sr. No.	Condition as per CFO	Compliance										
23	<p>The industry shall operate CAAQM stations for monitoring SPM, SO<sub>2</sub>, and NO<sub>x</sub> with recording facility and maintain connectivity to PCB server.</p>	<p><b>Complying with.</b></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 &amp; 02.03.2015 and maintain connectivity to APPCB/CPCB websites.</p>	<p>SEIL has provided online Stack Monitoring system &amp; Effluent Quality Monitoring system and connected with the CPCB website.</p>  <table border="1"> <thead> <tr> <th>Parameter</th> <th>Instantaneous Value</th> <th>Average</th> <th>Flag</th> <th>Permissible Range</th> </tr> </thead> <tbody> <tr> <td>PH</td> <td>41.00</td> <td>40.40</td> <td></td> <td>0 - 50</td> </tr> </tbody> </table>	Parameter	Instantaneous Value	Average	Flag	Permissible Range	PH	41.00	40.40		0 - 50
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Sr. No.	Condition as per CFO	Compliance
25	The industry shall carryout regular calibration for the on-line stack monitoring systems and CAAQM stations with tamper proof mechanism.	<p><b>Complying with.</b></p> <p>Regular calibration of the CAAQMS system is being done. Also the CEMS system is provided with online Remote Calibration facility.</p>
26	The industry shall dispose 100% of fly ash generated as per the Fly ash Notification.	<p><b>Complying with.</b></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 April 2020 to September 2020. MoUs are signed with brick manufacturers, traders and cement plants for ash utilization.</p> <p>SEIL has installed 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.</p> <p>According to MoEF&amp;CC letter 11/3/2018-HSMD dated 23<sup>rd</sup> July 2019, it was mentioned that thermal power plants, who have achieved less than 85% of fly ash utilization will be given two years time period to achieve 100% fly ash utilization (i.e. Up to July 2021). SEIL shall comply with the stipulated conditions.</p>

Sr. No.	Condition as per CFO	Compliance
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><b>Complying with.</b></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><b>Complying with.</b></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)</p>
29	The industry shall comply with Board directions issued from time to time.	<b>Noted.</b>
30	The industry shall comply with standards and directions issued by CPCB / MoEF & CC as and when notifications are issued.	<b>Noted.</b>
31	The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1 <sup>st</sup> of January and July of every year to the Regional Office/ Zonal Office.	<p><b>Complying with.</b></p> <p>SEIL Project 1 (formerly known as Thermal Powertech corporation India Limited– TPCIL) has submitted the six-monthly CFO compliance report to APPCB vide SEIL/APPCB/BZA/2020/020 dated 30.06.2020.</p>