The representative of the industry attended the legal hearing. The Committee noted that the Board received a complainant from Sri S.Sanna Timma Reddy, Sri Adi Muthry, Smt. Sidhamma and others against industry for causing dust pollution. The committee also noted that the industry has not provided internal roads, not installed online monitoring system, not provided water sprinklers, not maintain records on functioning of air pollution control equipment and not provided sheds to store the iron ore and dolchar. The representative of the industry informed that they are procuring online monitoring system for the stack attached to kiln and same will be completed by April, 2018. It was further informed that they provided Bunker for storage of raw material and they will implement all pollution control measures as per the Board directions.

**Recommendations:**

The after detailed review the committee recommended to issue the following directions:

1. The industry shall immediately obtain valid CFO&HWA from the Board as required under the provision of the water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 and amendments thereof and HWA Rules.
2. The industry shall expedite installation of online pollution monitoring system for the stack attached to kiln and the same shall be completed within 2 months.
3. The industry shall operate the Air Pollution Control Equipment continuously and maintain energy meter records specific on power consumed to operate all the Air Pollution Control Equipments. The consolidated energy consumption records shall be furnished to ZO, Kurnool and RO, Kurnool every 3 months.
4. The industry shall complete internal topping of roads with RCC/Black top within 3 months to avoid generation of fugitive emissions during the movement of vehicles. Till such time, regular wetting of internal roads shall be carried out to mitigate re-suspension of fine dust and causing air pollution due to fugitive dust emissions.
5. The industry shall expedite installation of CAAQM stations and shall report compliance to the Board within 3 months.
6. The industry shall provide fixed water sprinklers to control fugitive emissions around the raw material storage & handling area and shall ensure installation of sprinklers at strategic locations for effective dust suppression.
7. The industry shall upgrade cladding and dust extraction system to control fugitive emissions near the cooler discharge point, transfer point of product house and raw
material crushers. Dry fog system shall be installed nearby sources of fugitive emissions to mitigate time dust getting air borne and consisting for air pollution.

8. The industry shall stop further storage of raw material / dolachar openly and shall provide sheds of adequate capacity to store the iron ore, coal fines and dolachar within 2 months.

9. The industry shall provide proper ladder arrangement within one month to carryout stack monitoring safely.

10. The industry shall develop maintain thick green belt all round the industry premises as mentioned in the CFE & CFO order.

11. The industry shall comply all directions issued by the Board vide order dt.28.05.2016.

12. The industry shall ensure continuous compliance of the conditions stipulated in the CFO&HWA obtained from the Board.

2. M/s. Visakhapatnam Port Trust, Port Area, Visakhapatnam.

The representatives of the industry attended the legal hearing and complainants did not attend the legal hearing. The committee noted that the Board received complaints from the residents of Chilakapeta, 29th Ward, Visakhapatnam against the air pollution being caused due to the activities of M/s VPT and noted non-compliance of Board directions and CFO conditions. The committee discussed issues relating to covering of all stock yards of dusty cargos with tarpaulin, action plan for re-furbishing of all the existing mechanical dust suppression systems. The representative of the industry informed that letters addressed to PPP operators to strictly comply with EMS and VPT internal Task Force team is monitoring the operation of the MDSS system and tarpaulin cover of dusty cargo. It was informed that the dusty cargo such as Coal will be shifted to the inner side of the harbor and non-dusty cargo to the periphery by end of December, 2017. They provided MDSS at storage areas i.e S4 38No.s of sprinklers; West ore berth 25No.s of sprinklers and GCB 31Nos sprinklers. Dry fog system and MDSS installed by PPP operators at their respective terminals. It was also informed that coal is removed from North of S-4 area and Plantation of 1050 No.s planted on both sides of S-6 pump house road and around new central fire station.

Recommendations:
The after detailed review the committee recommended to issue the following directions:

1. VPT shall immediately cover all the stack yards of dusty cargoes (coal and other cargoes etc.) with tarpaulins and shall ensure that no coal stack yard exists without tarpaulin cover until the stock is cleared / transferred. The MDSS shall be kept in

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operation effectively for fugitive dust suppression during transit handling of dusty cargo.

2. VPT shall submit layout plan clearly showing the details coal stockings and other dusty cargo stocking yards within one month.

3. The VPT shall restrict the maximum stack height of coal piles to 6m and the excess stacking shall be removed immediately and report compliance to the Board.

4. VPT shall install PLC operated MDSS at all stacking areas and shall report implementation progress every month to ZO, Visakhapatnam and RO, Visakhapatnam.

5. VPT shall provide water spraying system/ wet the open yards continuously

6. VPT shall to undertake massive plantation stacking near to the habitations existing i.e at S6 area.

7. VPT shall submit action plan for up-gradation of the STP within 2 months along with details of up-gradation and PERT chart to complete the same.

8. VPT shall extend the wind breaking wall along the north-east boundary for atleast another 500m within 2 months.


10. VPT shall submit the reports periodically as directed by the NGT in the application No.68/2015 filed by Chaitanya sravanthi Organisation.

11. The implementation progress of the above directions shall be furnished periodically to ZO, Visakhapatnam and RO, Visakhapatnam for every 3 months.


The representatives of the industry attended the legal hearing and complainants did not attend the legal hearing. The committee noted the Board received complaint from the residents of Chilakapeta, 25th ward, Visakhapatnam against the air pollution caused by the dust due to the activities of M/s VPT and noted non-compliance of Board directions and CFO conditions. The Committee also noted that most of the coal stacks in the East Yard are not covered with tarpaulins and the sprinklers are not functioning properly. The AEE, RO, Visakhapatnam has informed that Chilikapeta area is existing towards north-east direction and does not have the protection of wind breaking wall and it is exposed to severe air pollution problems due to air borne fine coal dust due to pre dominant wind in that direction. It was also informed that the port provided MDSS system, but not operated. The
representative of the Port has informed that CAAQM machine has reached in the Port and they will install the same by end of December, 2017 at Silparamam, Madhurawada, Visakhapatnam as suggested by RO, Visakhapatnam. They informed that MDSS systems connected to PLC system and maintained records and informed that they operated water sprinklers at coal yards & other dusty cargo yards adequately to maintain wet condition in coal yard.

**Recommendations:**

The after detailed review the committee recommended to issue the following directions:

1. M/s. VGCBCL shall immediately reduce the stacking height from 10 m to 6 m temporarily for a period of 6 months and until further orders.
2. M/s. VGCBCL shall cover all the coal cargo stacks with tarpaulins and shall ensure that no coal stack yard exists without tarpaulin cover until the stock is cleared/transferred. The MDSS shall be kept in operation effectively for fugitive dust suppression during transit handling of dusty cargo.
3. M/s. VGCBCL shall submit the records on PLC system operated for MDSS system, water meter readings and the quantity of water received from the VPT for sprinkling purpose and the water used for MDSS system.
4. M/s. VGCBCL shall operate water sprinklers at coal yards & other dusty cargo yards adequately to maintain wet condition in coal yard.
6. M/s. CONCOR shall procure mechanical sweeping system mounted vehicle to periodically sweep the roads abutting the Chilakapeta and shall road at regular intervals to mitigate re-suppression of dust.
7. M/s. VGCBCL shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.
8. The port shall ensure the continuous compliance of the CFO & HW Authorization conditions issued by the Board.
9. The implementation progress of the above directions shall be furnished periodically to ZO, Visakhapatnam and RO, Visakhapatnam for every 3 months.

**4. M/s. Andhra Petrochemicals Ltd., Opp: Naval Dock yard, Scindia Road, Visakhapatnam.**

The representatives of the industry attended the legal hearing. The Committee noted that the industry is not properly treating the process water. It is diluting the process water with
cooling tower blow-down and discharging into the sea. The COD and BOD values are exceeding in the Board standards. The Committee also noted that the VOC analyzer provided at ETP is not in operation and CAAQM station is not calibrated regularly and showing erratic values. The representative of the industry informed that the defective VOC meter replaced with new VOC meter, odour was due to pump seal leaks and some cracks in sump which were attended thoroughly, due to some maintenance issue of CAAQM, PM analyser has shown erratic values, which was attended & is now functioning correctly SO2 & NOx sensors are installed for both boilers. They also informed that they procure HC analyzer separately in place of existing irreparable analyzer. Once the supplier meet the delivery and commissioning of the same will be done and the progress will be submitted to the Board.

**Recommendations:**

The after detailed review the committee recommended to issue the following directions:

1. The industry shall operate regularly ETP to ensure compliance of the prescribed discharge standards.
2. The industry shall calibrate CAAQM station regularly to prevent display of erratic values of pollution monitoring parameters.
3. The industry shall provide additional stripper of adequate capacity to reduce organic load to ETP. Further they shall provide hood cover to the ETP with odour extraction and condensation system to further prevent odour nuisance.
4. The industry shall prevent odour from ETP area by taking all necessary measures.
5. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.
6. The industry shall ensure the continuous compliance of the CFO & HW Authorization conditions issued by the Board.
7. The implementation progress of the above directions shall be furnished periodically to ZO, Visakhapatnam and RO, Visakhapatnam for every 3 months.

The JCEE, ZO, Visakhapatnam is directed to inspect the unit to carry out detailed study on source apportionment of odour and to recommend mitigation measures to about odour nuisance in the surroundings.

5. **M/s. SVR Drugs Pvt. Ltd., Plot No.3, JN Pharmacity, Parawada, Visakhapatnam.**

The representatives of the industry attended the legal hearing. The Committee noted that Hon'ble MLA, Sri Bandaru Sathyanarayana Murthy has telephoned on 13.10.2017
regarding discharges of effluents into the drains there by causing contamination of the Tanam Cheruvu. The Committee also noted that an adverse press items were published in daily news papers regarding discharge of effluents by the pharma industries located in Parawada. The AEE, RO, Visakhapatnam informed that highly colored effluents were observed in storm water drains and seeping through earthen drain of M/s. Biocon Limited and finally letting outside the storm water drains during inspection. Three of samples were collected from the outside the industry and inside the internal drains and pH of the effluents were recorded as 1.0.

The representative of the industry informed that the scrubber waster was leaked and spread into the storm water drain area at the time of inspection. The Colored waste water collected immediately from drain and transferred to ETP sump. As a corrective and preventive action immediately closed the concerned drain point with concrete cement and created the additional sumps and pits for collection of any colored water and sump has been provided with a drain line to effluent collection sump.

**Recommendations:**

The after detailed review the committee recommended to issue the following directions:

1. The industry shall segregate the effluents into HTDS & LTDS at source and shall dispose the same periodically to CETP.
2. The industry expedite installation of Bag filter to Boiler and shall report compliance to RO, Visakhapatnam within one month.
3. The industry shall immediately provide provision for transporting the Boiler Blow down water to LTDS effluent storage tank.
4. The industry shall not manufacture any new products and not to produce the products more than the permitted capacity without obtaining prior consent.
5. The industry shall construct rain water runoff tank for collection and storage of first flush storm water.
6. The industry shall not discharge any equipment cleaning water outside the plant premises. The same shall be stored properly and shall be sent to CETP.
7. The industry shall submit the Bank Guarantee of Rs.2Lakhs within 15 days for a period of one year towards compliance.
8. The industry shall ensure continuous compliance of the conditions stipulated in the CFO&HWA obtained from the Board.
9. The implementation progress of the above directions shall be furnished periodically to ZO, Visakhapatnam and RO, Visakhapatnam for every 3 months.

The representatives of the industry attended the legal hearing. The Committee noted that the industry has not obtained valid CFO of the Board and extension of temporary revocation of closure order. The Committee also noted that the industry is not operating the ETP and discharging the entire effluents generated from the process to outside the industry premises. The EE, RO, Eluru has informed that the industry has not provided the ETP and discharging effluents outside the premises. He also informed that the industry has not upgraded the air pollution control equipments and not installed flow meters & energy meters. The representative of the industry informed that the industry has stopped the operation since 6 months due to finials problems and poor market. They informed that they will comply all directions and take pollution control measures within 3 months.

Recommendations:

The Committee after detailed discussions, recommended to issue revocation of closure order upto July, 2018 with the following directions:

1. The industry shall immediately obtain valid CFO & HWA from the Board as required under the provision of the water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 and amendments thereof and HWA Rules. They shall stop further operation of the unit until CFO & HWA is obtained from the Board.

2. The industry shall immediately upgrade the Effluent Treatment Plant for treatment of waste water generated at their premise to comply with prescribed discharge standards by end of December, 2017. The details of ETP up-gradation and implementation progress shall be reported to ZO, Visakhapatnam and RO, Eluru for every fortnight through e-mail.

3. The industry shall upgrade air pollution control equipment system to the Boiler with bag filters to ensure compliance of prescribed emission standards within one month.

4. The industry shall provide separate energy meter to record the power consumption for operation of pollution control equipments and the consolidate energy consumption records shall be furnished to ZO, Visakhapatnam and RO, Eluru every two months.

5. The industry shall provide flow meters with totalizer at inlet and outlet of ETP and intake of fresh water and the consolidate records shall be furnished to ZO,
Visakhapatnam and RO, Eluru every two months.
6. The industry shall not discharge treated/untreated effluents outside the premises under any circumstances.
7. The industry shall operate the ETP effectively duly deploying technical and qualified personnel.
8. The industry shall not dispose off any solid waste outside the industry premises.
9. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.
10. The industry shall comply with the all the directions issued vide order dt.14.03.2014.
11. The industry shall ensure continuous compliance of the conditions stipulated in the CFO & HWA order obtained from the Board.
12. The implementation progress of the above directions shall be furnished periodically to ZO, Visakhapatnam and RO, Eluru for every 3 months.

7. M/s.Rainbow Industries, Sy.No.22/1, Patha Kunkam (V), Laveru (M), Srikakulam District.

The representatives of the industry attended the legal hearing. The Committee noted the non-compliance of the Board directions and consent conditions. The Committee also noted that the facility has not provided GPS system and Bar Code system, not maintaining housekeeping and not developed greenbelt. The EE, RO, Vizianagaram has informed that the facility has not operated the incinerator properly and incineration ash is not disposed off to TSDF. He is also informed that the facility is not operating ETP and scrubber.

The representative of the industry informed that they provided online stack emission monitoring systems and connected to website. It was informed that they disposed sludge to TSDF last month and will submit the records by end of this month. They maintained ETP and provided flow meters to access the ETP performance. They operated the autoclave. They will provide GPS tracking system and Bar Code for collection of the Bio Medical Waste for transportation of Bio-medical Waste by end January, 2018. It was also informed that the scrubber is repaired during inspection time and will rectify by end this month. The Committee instructed the management not collect un-segregated Bio-Medical waste from the HCEs and furnish the list of HCEs waste to Board and improve housekeeping in the facility premises.
Recommendations:

The Committee after detailed discussions, recommended to issue an order for stoppage operation temporarily and take up the following directions for compliance:

1. The facility shall collect only segregated Bio-medical Waste from HCEs. The list of HCE’s sending un-segregated bio-medical waste to CBMWTTF shall be reported to ZO, Visakhapatnam and RO, Vizianagaram as and when found non-compliance.
2. The facility shall not take-up manual feeding of Bio-medical Waste into incinerator.
3. The facility shall upgrade Effluent Treatment Plant immediately.
4. The facility shall rectify the Scrubber attached to incineration within one month and shall provide interlocking between Air Pollution Control and feeding of Bio Medical Waste to the incinerator, so as to ensure the feeding of waste to incinerator would stop automatically in the case non-compliance of prescribed emission standards.
5. The facility shall install Barcode systems for collection of Bio-medical Waste and shall report compliance to RO, Vizianagaram and ZO, Visakhapatnam along with details of bar codes within two months.
6. The facility shall maintain records on actual operation of incinerator/ autoclave/ shredder, diesel consumption, Manifest copies, vehicles and daily register of BMW collected from HCEs (HCE wise) and route wise collection at plant site.
7. The facility shall improve housekeeping in the facility premises.
8. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.
9. The facility shall submit the Bank Guarantee of Rs. 2.0 Lakh within 15 days for period of one year towards compliance.
10. The industry shall ensure continuous compliance of the conditions stipulated in the CFO & HWA order.

The Committee also recommended to direct the ZO, Visakhapatnam to entrust collection and disposal of Bio Medical Waste generated from the Hospitals located in Vizianagaram and Srikakulam District to M/s.Maradi Eco Industries Pvt. Ltd., Visakhapatnam from the date of issue of this order. The JCEE, ZO, Visakhaptaam shall submit detailed report on the compliance of the directions issued by the Board.
8. M/s. Transworld Garnet India Pvt. Ltd., Sativada (Revenue village), Yellapeta (V), Gara (M), Srikakulam District.

The committee noted that a contempt case was filed in the matter of PIL No. 232 of 2015 filed by Sri L.V. Ramana, Ippili (V), Arasavalli Via., Srikakulam in the Hon’ble High Court, Hyderabad. The Hon’ble High Court vide order dt. 04.01.2016 directed the APPCB to depute the Task Force of the Board to inspect the industry and issue directions based upon the Task Force report for compliance by the industry. The Board has issued the directions to the industry on 26.03.2016 as per the Hon’ble High Court order dt. 04.01.2016. A contempt case has been filed stating that the industry and APPCB are not complying High Court orders. The Committee also noted that complaint was filed by M/s. Federation of Indian Placer Mineral Industries, Chennai on illegal transport of processed Garnet, Ilmenite, Rutile, etc. by industry.

The representatives of the industry attended the legal hearing. The representative of the industry has informed the Committee that the industry requested 18 months time for the process of obtaining clearances from Central and State Governments of Andhra Pradesh & Government of India and to further process and dispose these tailings. The Director of Mines & Geology, Government of Andhra Pradesh collected 50 nos. samples of magnetic and non-magnetic tailings from the heaps and delivered to Atomic Minerals Directorate (AMD), Hyderabad for testing monazite in the form of Monazite Test Certificate (MTC) vide letter dt. 13.07.2017. The directorate is awaiting the monazite test results. Once MTC is obtained from AMD, the Department of Mines & Geology will issue required permission for disposal and processing of these tailings. They also informed that they will provide concrete platform at backfill wet sand collection point in the wet plant by end of February, 2018. They have covered the existing magnetic and non-magnetic tailings heaps with tarpaulins. They keep vigilance on this on continuous basis.

Recommendations:

The Committee after detailed discussions, recommended to issue following directions:

1. The industry shall expedite the process of obtaining clearance from Central and State Governments and to obtain the same within 18 months for inclusion of other minerals in the mine lease granted to the industry. This helps recovery of other minerals from the waste dumped within the premises and to reduce the mineral bearing waste storage in the premises.
2. The industry shall provide concrete platform at backfill wet sand collection point in the wet plant by end of January, 2018.

3. The industry shall store the magnetic and non-magnetic material in a safe manner duly covering with tarpaulin/plastic sheets till the material is further processed.

4. The industry shall take up plantation in vacant areas of the wet and dry plants during the next monsoon season so as to achieve 33% of green belt target.

5. The industry shall ensure continuous backfilling and plantation of the mined area.

6. The industry shall implement adequate leachate containment measures to prevent ground water pollution due to transit mined waste. The industry shall furnish plan of action and detailed proposals on the above within one month.

7. The industry shall ensure continuous compliance of the conditions stipulated in the CFO & HWA order.

9-13 5 No. of Thermal Power Plants in Muthukur (M) & Chilakuru (M), SPSR Nellore District

The representatives of the industry attended the legal hearing and complainants did not attend the legal hearing. The committee noted that the Board has received several complaints from the surrounding villagers of Thermal Power Plants on pollution problems viz. air pollution due to stack emissions, fugitive dust emissions, and waste water discharges from ash pond, ground water depletion and on thermal radiation impact on the nearby human habitations, which is being felt. The Committee also noted that the Thermal Power Plant are not achieving the Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NOₓ) standards and not meeting the Ambient Air Quality Standards stipulated by the Board. The EE, RO, Nellore has informed that school teachers working in the school nearby villages, have also complained that soot is being deposited on school building particularly during March and August months and sought action against the power plants. He has also informed that all thermal power plants have failed to achieve 100% utilization of ash as per fly ash notification 25.05.2015 and not operating water sprinklers system continuously at coal handling areas. It was further informed that the Thermal Power Plants are not operating the ETP & STP for treatment of DM Plant regeneration, Boiler Blow Down, Domestic Plant wastewater and discharging the untreated wastewater into the sea directly.

The representative of M/s. Simhapuri Energy Pvt Ltd., & M/s. Meenakshi Energy Ltd., Chilakuru (M), SPSR Nellore District have informed that the plants was stopped the operation since October, 2017 due to poor market condition. All thermal Power Plants have informed that they provided water sprinklers at coal handling storage areas and continuously operating water sprinklers. It was informed that they provided web cameras at
coal yards and coal crusher and provided wind barriers around coal yard, so as to avoid fugitive dust emissions on the surrounding villages. All thermal Power Plants have also informed that they implemented CSR actives at surrounding villages in consultation with District Administration. They will develop the green belt in the coming monsoon season. The Committee has instructed all Thermal Power Plants to achieve the Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NOₓ) standards within one month and shall meet the Ambient Air Quality Standards stipulated by the Board.


Recommendations:

After detailed review, the Committee recommended to issue the following directions:

1. The industry shall operate the water sprinkling system around coal stacking yards and crusher for dust suppression and containment effectively. They shall provide web cameras to continuously monitor the operation and effective area of sprinklers within one month.

2. The industry shall provide wind barriers after the green belt buffer around coal stock yard to prevent fugitive dust emissions within one month.

3. The industry shall operate the STP for treatment of domestic waste water and the only treated water shall be utilized for onland irrigation / dust suppression subject to the compliance of prescribed discharge standards.

4. The industry shall provide flow meters with totalizer at all sections within one month and shall maintain records and to submit consolidate records to ZO, Vijayawada and RO, Nellore every month.

5. The industry shall adopt soil reclamation methods and to select specific type of tree species, which are endemic to local ecological conditions for the sustenance and growth. The progress in this regard shall be reported to RO, Nellore periodically.

6. The industry shall expedite ash utilization as per the guidelines stipulated in Fly Ash Notification.

7. The industry shall implement the CSR activities at surrounding villages in consultation with District Administration.

8. The industry shall provide online CAAQM station at Nelaturu Village in co-ordination with other plants operation of under surroundings and the same shall connected to APPCB website within three months.

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9. The industry shall provide interlocking system for air pollution control equipment and boiler feed to ensure that coal feeding will be stopped automatically in the case pollution meters are exceeding the prescribed standards.

10. The industry shall achieve prescribed emission standards for the parameters of the Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NOₓ) standards within one month.

11. The industry shall carry out detailed study to indentify all the major and minor sources contributing for fugitive dust emissions at plant premises and shall implement requisite dust containment / suppression measures at sources. The details shall be furnished to the Board within one month along with corrective measures planned / proposed to implement in specific time limit.

12. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.

13. The industry shall ensure continuous compliance of conditions issued in the CFO and HWA order.

14. The implementation progress of the above directions shall be furnished periodically to ZO, Vijayawada and RO, Nellore for every three months.

10. M/s. Thermal Power Tech Corporation India Ltd., Palnapuram (V), Muthukur (M), SPSR Nellore District.

Recommendations:

After detailed review, the Committee recommended to issue the following directions:

1. The industry shall operate the water sprinkling system around coal stacking yards and crusher for dust suppression and containment effectively. They shall provide web cameras to continuously monitor the operation and effective area of sprinklers within one month.

2. The industry shall provide wind barriers after the green belt buffer around coal stock yard to prevent fugitive dust emissions within one month.

3. The industry shall provide flow meters with totalizer at all sections within one month and shall maintain records and to submit consolidate records to ZO, Vijayawada and RO, Nellore every month.

4. The industry shall adopt soil reclamation methods and to select specific type of tree species, which are endemic to local ecological conditions for the sustenance and growth. The progress in this regard shall be reported to RO, Nellore periodically.

5. The industry shall expedite ash utilization as per the guidelines stipulated in Fly Ash Notification.

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6. The industry shall implement the CSR activities at surrounding villages in consultation with District Administration.

7. The industry shall connect online CAAQM station to APPCB website within one month.

8. The industry shall achieve prescribed emission standards for the parameters of Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NOₓ) standards within one month.

9. The industry shall carry out detailed study to indentify all the major and minor sources contributing for fugitive dust emissions at plant premises and shall implement requisite dust containment / suppression measures at sources. The details shall be furnished to the Board within one month along with corrective measures planned / proposed to implement in specific time limit.

10. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.

11. The industry shall submit Bank Guarantee of Rs.3 Lakhs within 15days for period of one year to towards compliance.

12. The industry shall ensure continuous compliance of conditions issued in the CFO and HWA order.

13. The implementation progress of the above directions shall be furnished periodically to ZO, Vijayawada and RO, Nellore for every three months.

11. M/s. Sembcorp Gayatri Power Limited, Near Painampuram, Varakavipudi and Sivarampuram Villages, Muthukur (M), SPSR Nellore District

Recommendations:

After detailed discussions the Committee recommended to issue the following directions:

1. The industry shall operate the water sprinkling system around coal stacking yards and crusher for dust suppression and containment effectively. They shall provide web cameras to continuously monitor the operation and effective area of sprinklers within one month.

2. The industry shall provide wind barriers after the green belt buffer around coal stock yard to prevent fugitive dust emissions within one month.

3. The industry shall operate the STP for treatment of domestic waste water and the only treated water shall be utilized for onland irrigation / dust suppression subject to the compliance of prescribed discharge standards.

4. The industry shall provide flow meters with totalizer at all sections within one month and shall maintain records and to submit consolidate records to ZO, Vijayawada and RO,
Nellore every month.

5. The industry shall adopt soil reclamation methods and to select specific type of tree species, which are endemic to local ecological conditions for the sustenance and growth. The progress in this regard shall be reported to RO, Nellore periodically.

6. The industry shall expedite ash utilization as per the guidelines stipulated in Fly Ash Notification.

7. The industry shall implement the CSR activities at surrounding villages in consultation with District Administration.

8. The industry shall achieve prescribed emission standards for the parameters of Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NOₓ) standards within one month.

9. The industry shall carry out detailed study to indentify all the major and minor sources contributing for fugitive dust emissions at plant premises and shall implement requisite dust containment / suppression measures at sources. The details shall be furnished to the Board within one month along with corrective measures planned / proposed to implement in specific time limit.

10. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.

11. The industry shall submit Bank Guarantee of Rs.3 Lakhs within 15 days for period of one year to towards compliance.

12. The industry shall ensure continuous compliance of conditions issued in the CFO and HWA order.

13. The implementation progress of the above directions shall be furnished periodically to ZO, Vijayawada and RO, Nellore for every three months.


**Recommendations:**

After detailed discussions the Committee recommended to issue the following directions:

1. At present the plant is not under operation. As and when starts its operations, the industry shall operate the water sprinkling system around coal stacking yards and crusher for dust suppression and containment effectively. They shall provide web cameras to continuously monitor the operation and effective area of sprinklers within one month.

2. The industry shall provide wind barriers after the green belt buffer around coal stock yard to prevent fugitive dust emissions within one month.

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3. The industry shall provide flow meters with totalizer at all sections within one month and shall maintain records and to submit consolidate records to ZO, Vijayawada and RO, Nellore every month.

4. The industry shall adopt soil reclamation methods and to select specific type of tree species, which are endemic to local ecological conditions for the sustenance and growth. The progress in this regard shall be reported to RO, Nellore periodically.

5. The industry shall expedite ash utilization as per the guidelines stipulated in Fly Ash Notification.

6. The industry shall implement the CSR activities at surrounding villages in consultation with District Administration.

7. The industry shall achieve prescribed emission standards for the parameters of the Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NOₓ) standards within one month.

8. The industry shall carry out detailed study to indentify all the major and minor sources contributing for fugitive dust emissions at plant premises and shall implement requisite dust containment / suppression measures at sources. The details shall be furnished to the Board within one month along with corrective measures planned / proposed to implement in specific time limit.

9. The industry shall set up a dedicated Environmental Wing fully equipped with expertise to ensure Environmental Compliance in all aspects.

10. The industry shall not discharge the cooling water blow downs into Khandaleru creek instead of sending into sea through marine outfall.

11. The industry shall install dedicated pipe line system for transportation of ash from boiler section to ash pond area to control fugitive emissions.

12. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.

13. The implementation progress of the above directions shall be furnished periodically to ZO, Vijayawada and RO, Nellore for every three months.


**Recommendations:**

After detailed discussions the Committee recommended to issue the following directions:

1. At present the plant is not under operation. As and when starts its operations, the industry shall operate the water sprinkling system around coal stacking yards and crusher for dust suppression and containment effectively. They shall provide web
1. Cameras to continuously monitor the operation and effective area of sprinklers within one month.
2. The industry shall provide wind barriers after the green belt buffer around coal stock yard to prevent fugitive dust emissions within one month.
3. The industry shall provide flow meters with totalizer at all sections within one month and shall maintain records and to submit consolidate records to ZO, Vijayawada and RO, Nellore every month.
4. The industry shall adopt soil reclamation methods and to select specific type of tree species, which are endemic to local ecological conditions for the sustenance and growth. The progress in this regard shall be reported to RO, Nellore periodically.
5. The industry shall expedite ash utilization as per the guidelines stipulated in Fly Ash Notification.
6. The industry shall implement the CSR activities at surrounding villages in consultation with District Administration.
7. The industry shall achieve prescribed emission standards for the parameters of the Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NOₓ) standards within one month.
8. The industry shall carry out detailed study to indentify all the major and minor sources contributing for fugitive dust emissions at plant premises and shall implement requisite dust containment / suppression measures at sources. The details shall be furnished to the Board within one month along with corrective measures planned / proposed to implement in specific time limit.
9. The industry shall set up a dedicated Environmental Wing fully equipped with expertise to ensure Environmental Compliance in all aspects.
10. The industry shall not discharge the cooling water blow downs into Khandaleru creek instead of sending into sea through marine outfall.
11. The industry shall install dedicated pipe line system for transportation of ash from boiler section to ash pond area to control fugitive emissions.
12. The industry shall provide mechanical conveying system from the port area to industry premises.
13. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.
14. The industry shall ensure continuous compliance of conditions issued in the CFO and HWA order.
15. The implementation progress of the above directions shall be furnished periodically to ZO, Vijayawada and RO, Nellore for every three months.

[Signature]

MEMBER SECRETARY