

HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE CONDITIONS

1. Name of the Project: **M/s MCC PTA India Corp. Private Limited – Haldia (WB)**
2. MOEF Clearance No. & Date: J-11011/33/97. IA.II (I) dated 20/7/98
3. Period of Compliance Report: From 01.10.2015 to 31.03.2016

Sl. No	Conditions	Compliance Status
(i)	<p>Gaseous and emissions (SPM, SO₂, CO, HC& NO_x) from the various process units should conform to the standards prescribed by the competent authorities from time to time. At no time, the emissions level should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be put out of operation immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.</p>	<p>It is complied</p>
(ii)	<p>Adequate number of air quality monitoring station should be set up in the down wind direction as well as where maximum ground level concentrations of SPM,SO₂,NO_x are anticipated in consultation with the State Pollution Control Board. The air quality monitoring stations should be selected on the basis of modeling exercise to represent short term ground level concentrations, sensitive targets etc.,</p> <p>Stack emission should be monitored regularly by setting stack monitoring devices in consultation with the state pollution control board.</p> <p>Data on stack emissions and ambient air quality including work zone should be submitted to this Ministry once in six months and the state pollution control Board once in three months along with the statistical analysis.</p>	<p>We have conducted ambient air quality monitoring from different locations inside as well as outside of the Factory (Within 10 km radius) depending upon predominant wind direction with the help of the approved vendor of WBPCB from each location on 24 hourly bases. The monitoring was started in Nov'15 and was continued to Feb'16 at six different locations (Five outside the factory & one inside the factory).Results enclosed in Annexure- IIa. On line ambient air quality monitoring station was commissioned in the month of April'12. Result of October'15 to March'16 is enclosed in Annexure – IIb</p> <p>We had been continuing our monitoring of various Stacks with the help of approved Vendor of WBPCB/MoEF & as well as internally on periodic basis. Only quarterly monitoring of stacks is required as per the guidelines of the Air Consent letter & WBPCB is monitoring the same on quarterly basis. Analysis results from these stacks are enclosed as Annexure - I.</p>

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(iii)	<p>Work area air quality should meet the standards prescribed by the competent authorities/ OSHA. Fugitive emissions (HC) should be controlled, regularly monitored and data recorded.</p>	<p>Work environment monitoring is being done by the on-line static gas detectors, which are installed at various strategic locations inside the process plant & Tank farm area. These are being continuously monitored from DCS, which are provided with audio-visual signal & alarm. Work zone air quality monitoring done in the month of November'15~January'16 for SPM, RPM, organic and inorganic vapors throughout the plant by third party. The result is enclosed in Annexure – IIc. LDAR monitoring was done in our DP plant. Report is enclosed as Annexure -II d</p>
(iv)	<p>Liquid effluents coming out of the plant and the township should conform to the standards prescribed by the competent authorities from time to time. Recycling and reuse of the treated waste water should be maximized to the extent possible. Tertiary treatment facilities should be provided as committed in the EMP</p>	<p>Our Effluent Treatment Plant is operated under activated sludge with diffused aeration system. The treated effluent is being monitored on-line (pH & Temp.) regularly through DCS. Besides, WBPCB is also collecting samples of final discharge treated effluent every month. The Final discharge effluent quality results are enclosed as Annexure-III.</p>
(v)	<p>Guard ponds of sufficient holding capacity should be provided to cope up with the effluents discharge during the process disturbances. The contributing units should be immediately shut down and should not be restarted without bringing the system back to normalcy.</p>	<p>We have installed four number of waste water storage tanks having sufficient holding capacity for storage of Wastewater coming from various process discharges of the plant. This influent is being fed to the Aeration Tank at controlled rate as per their BOD & COD load through DCS. Besides, we have ETP pit of capacity 16,250 m³ (Big pit) & Small pit (17.85 m³) from where the treated effluent is pumped and discharged to the river Hoogly through underground pipeline after monitoring pH, Temperature.</p>

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(vi)	<p>Adequate number of effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for PH,SS,BOD,COD. The monitored data along with statistical analysis and interpretation in the form of a report should be submitted to this ministry once in six months and the SPCB once in three months.</p>	<p>Effluent Quality Monitoring Station has been installed in the final effluent discharge stream. The treated effluent from ETP is collected in the ETP pit from where it is discharged through underground pipeline through sluice gate by pump to the river after continuously monitoring pH, Temp. by on-line analyzers. As the final treated effluent discharge is through a closed system so there is no chance of any contamination/mixing. In view of the above one monitoring station in the final effluent discharge stream is considered adequate. This was also physically inspected by WBPCB, Kolkata & Haldia officials. The total Effluent Treatment Plant is being monitored through DCS (Distributed Control System). The analysis of different waste-water streams (COD & BOD) is being done by Laboratory regularly and the results are fed to DCS. Thus the feed rate of different waste water streams (Influent loads) to the inlet of ETP is controlled, so that the treated effluent quality meet the permissible limit. Hence the Effluent Treatment Plant is operated smoothly. The final treated effluent samples before discharge are being tested for all the parameters at our own laboratory once in a month, which is well equipped with all testing facilities. The test result of the final discharge effluent is enclosed as Annexure-III.</p>

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(vii)	A study to assess the impact on Hooghly River due to disposal of treated effluent should be carried out. The marine outfall point and route of the pipeline should be finalized based on the recommendation of the marine impact study before commissioning the project. Approval from WBSPCB should be obtained for the above.	The Marine Impact Assessment study for assessing the impact on Hooghly River due to disposal of treated effluent had been done and the same report had been submitted to MOEF & WBPCB, Kolkata before commissioning of the Project. From the report it was concluded that no impact on the river body is envisaged due to discharge of our treated effluent.
(viii)	Permission under CRZ Notification must be obtained for the proposed facilities in the coastal stretch, if applicable and the conditions strictly adhered to.	Permission under CRZ notification is not necessary for the location of our Factory as per the notification since Haldia development area is categorized as CRZ-II. The distance prescribed for CRZ-II is 100m for HTL. A Certificate on this issue provided by Haldia Development Authority along with the endorsed drawing of site-location had already been submitted to your office earlier.
(ix)	A secured double lined landfill should be developed for disposal of solid waste by providing impervious liner and leachate collection system. The design of the landfill site should be submitted within 3 months for Ministry's consideration and approval.	All the hazardous & non-hazardous wastes are stored at our site in an integrated scrap yard in a segregated manner. Refer Annexure – IV for details. The hazardous wastes are finally disposed through CHW-TSDF at Haldia & CPCB approved parties from the Scrap yard complying all the necessary legal requirements. A separate shed for used oil & waste oil had been constructed for storage of same to avoid environmental pollution. The amount of hazardous wastes disposed to TSDF during this period is enclosed. Refer Annexure – V.