

## **CoOrdinator Chd**

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**From:** Environment Team  
**Sent:** 27 May 2025 16:51  
**To:** Environment Team; ecompliance-nro@gov.in  
**Cc:** narendersharma.cpcb@gov.in; ronz.chd-mef@nic.in; 'seezobti@gmail.com'; RO Bathinda; CoOrdinator Chd; Ravi Deshwal; Jatinder Kumar1  
**Subject:** Six Monthly EC Compliance Report of HMEL Township from Oct'24 to Mar'25  
**Attachments:** Six Monthly EC compliance report\_ Oct'24 to Mar'25.pdf

To,  
**The Director,**  
Ministry of Environment, Forest & Climate Change,  
Northern Regional Office,  
Bays No. 24-25, Sector 31-A,  
Dakshin Marg,  
Chandigarh – 160 030.

**Subject: Six Monthly EC Compliance Report (from Oct'24 to Mar'25) for HMEL Township at Village Raman & Tarakhanwala, Bathinda District, Punjab by HPCL- Mittal Energy Ltd.**

**Ref: Environmental Clearance Letter No: 139/ SEAC(P) / 2010-IA.III, dated 07/10/2010.**  
**Environmental Clearance Letter No: DECC/SEIAA/2020/1845, dated 29/07/2020.**

Dear Sir,

Please find enclosed six monthly EC compliance report (Oct'24 to Mar'25) of HMEL-Township (along with Annexures) on the environmental conditions stipulated by MoEF&CC.

Thanks & Regards,  
Environment Team,  
**HMEL Township**  
**Guru Gobind Singh refinery**  
Bathinda.

*eccl Mel by  
Indrajit  
09/06/25*



Date: 27<sup>th</sup> May, 2025  
Ref: HMEL-TS-40-ENV 1241

To,

**The Director,**  
Ministry of Environment, Forests & Climate Change,  
Northern Regional Office,  
Bays No. 24-25, Sector 31-A,  
Dakshin Marg,  
Chandigarh – 160 030

**Subject: EC Compliance Report for HMEL-Township at Village Raman & Tarakhanwala, District Bathinda, Punjab by HPCL-Mittal Energy Ltd.**

**Ref: Environmental Clearance letter No: 139 / SEAC (P) / 2010-IA.III dated 07/10/2010.**  
**Environmental Clearance letter No: DECC/SEIAA/2020/1845, dated 29/07/2020.**

Dear Sir,

This is with reference to the EC letter no. 139 / SEAC (P) / 2010-IA.III, dated 07/10/2010 and the EC letter no. DECC/SEIAA/2020/1845, dated 29/07/2020 regarding the above mentioned subject.

Please find enclosed "EC compliance report of HMEL-Township" (from Oct'24 to Mar'25). (Enclosure-I).

Thanking you,

Very Truly Yours,

Jatinder Kumar  
(DM- Environment)

*Cc: Regional Director, Central Pollution Control Board, First Floor, PIC-UP Building, Vibuti Khand, Gomtinagar, Lucknow, UP, Pin Code-226010 (India).*

*Cc: Punjab Pollution Control Board, Zonal Office, Street No. 12, Power House Road, Bathinda, Punjab.*

*Cc: Punjab Pollution Control Board, Regional Office, Bathinda.*

**Encl:-**

**Enclosure-I:** EC compliance report of HMEL-Township

**Annexure-I:** The treated sewage quality reports

**Annexure-II:** Noise level monitoring reports

**Annexure III:** Ambient Air Quality monitoring reports

**Annexure-IV:** Copy of CTO for Air & Water (Valid till 31.03.2028)

**Annexure-V:** Copy of letter obtained from Water Resources Dept.

**Annexure-VI:** Copy of Punjab Energy Conservation Building Code (PECBC)

**Annexure-VII:** Copy of CER plan

**Annexure-VIII:** Environmental Policy

**Annexure-IX:** A copy of last Six Monthly EC compliance report submitted to MoEF&CC, Regional Office, Chandigarh. for the period of Apr'2024 to Sep'2024.

**HPCL-Mittal Energy Limited**

**ENVIRONMENT CLEARANCE COMPLIANCE  
&  
MONITORING REPORTS**

**Six Monthly EC Compliance Report  
(Oct'2024 to Mar'2025)**

**HMEL-Township**  
Village Raman & Tarkhanwala,  
Distt. Bathinda-151301  
Bathinda (Punjab), India

**Six Monthly EC Compliance Report from Apr'2024 to Sep'2024 for Residential Township at Village Ramsara & Tarkhanwala, Dist. Bathinda, Punjab**

**EC No: No.139 / SEAC (P) / 2010-IA.III dated 07<sup>th</sup> Oct, 2010**

**Status of the Project: The construction of the township for which this EC has been granted is complete and occupied.**

Sr. No	Condition	Compliance Status
<b>PART A: Specific Conditions</b>		
<b>I. Construction Phase</b>		
(i)	Consent for Establishment should be obtained from Punjab Pollution Control Board under Air and Water Act and a copy should be submitted to the Ministry before the start of any construction work at site.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(ii)	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	
(iii)	A First Aid Room will be provided in the project both during construction and operation of the project.	
(iv)	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.	
(v)	Provision should be made for the supply of fuel (kerosene or cooking gas); utensils such as pressure cookers etc.to the labourers during construction phase.	
(vi)	All the labourers to be engaged for construction should be screened for health and adequately treated before engaging them to work at the site.	
(vii)	For disinfection of waste water, use ultra violet radiation, not chlorination.	



(viii)	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	
(ix)	Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(x)	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	
(xi)	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the ground water.	
(xii)	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should confirm to E(P) Rules prescribed for air and noise emission standards.	
(xiii)	Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	
(xiv)	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.	
(xv)	Fly ash should be used as building material in the construction as per the provisions of Fly	

	Ash Notification of September, 1999 and amended as on August, 2003.	
(xvi)	Ready mixed concrete must be used in building construction.	
(xvii)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	
(xviii)	Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices referred.	
(xix)	Permission to draw ground water should be obtained from the competent Authority prior to construction/operation of the project.	
(xx)	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	
(xxi)	Treatment of 100% grey water by decentralised treatment should be done.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(xxii)	Fixtures of showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	
(xxiii)	Use of glass be reduced by upto 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	
(xxiv)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	
(xxv)	Adequate measures to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.	

(xxvi)	Opaque wall should meet prescriptive requirements as per Energy Conservation Building Code which is proposed to mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned space by use of appropriate thermal insulation material to fulfil requirement.	
(xxvii)	The approval of competent authority should be obtained for structural safety of the buildings due to earthquakes, adequacy of fire-fighting equipment's etc., as per National Building code including protection measures from lightening.	
	Provisions should be made for housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	
<b>ii. Operation Phase</b>		
(i)	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Discharge of treated sewage shall confirm to the norms and standards of the Punjab Pollution Control Board, Patiala, and Punjab.	<p>This condition stands complied with.</p> <p>The Sewage Treatment Plant (STP) of Phase-II has been certified by an independent expert (Pollucon Enviro Engrs P. Ltd) vide letter no. PEE/Bhatinda/STP/02 dated 04th November 2015. This was also submitted to MoEF&amp;CC, Chandigarh vide letter no. HMEL-TS-40-ENV-592 dated 17.01.19.</p> <p>Presently, the STP is operational and the treated sewage quality always remains well within the limits. The treated sewage is used in horticulture and greenbelt. The treated sewage quality reports are attached as <b>Annexure-I</b>.</p>
(ii)	The car washing in the complex/ multiples should not be allowed.	This condition is being complied with.

(iii)	Adequate & appropriate pollution control measures should be provided to control fugitive emissions to be emitted from the shopping and multiplex.	<p>This condition is being complied with.</p> <p>Access roads and pathways made of paver blocks have been provided in the shopping complex/township to avoid fugitive dust emissions. There are no other sources of fugitive emissions.</p>
(iv)	Adequate drinking water facility based on the Reverse Osmosis treatment technology to be provided.	This condition is being complied with.
(v)	Rain water harvesting for roof-runoff and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove the suspended matter, oil and grease.	Complied.
(vi)	The solid waste generated should be properly collected & segregated before disposal to the City Municipal Facility. The in-vessel bio-conversion technique should be used for composting the organic waste.	<p>This condition is being complied with.</p> <p>An organic waste facility has been installed at HMEL-Township for composting organic waste.</p>
(vii)	Any hazardous waste including bio medical waste should be disposed off as per applicable rules & norms with necessary approvals of Punjab Pollution Control Board.	<p>This condition is being complied with.</p> <p>Bio-medical waste generated in the OHC is disposed of by M/s Medicare (a PPCB-approved vendor) as per Bio-Medical Waste Rules 2016.</p>
(viii)	The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety.	<p>This condition is being complied with.</p> <p>A green belt along the periphery of the plot is developed. Noise levels during the day and night for the period of Oct'2024 to Mar'2025 conform to standards prescribed for residential land use. The noise level monitoring reports (day time and night time) are enclosed as <b>Annexure-II</b>.</p>

(ix)	The project proponent should take adequate and appropriate measures to maintain the ambient air quality within the prescribed standards. The proposal regarding the mitigation measures to be taken at site should be submitted to Ministry of Environment and Forest.	<p>This condition is being complied with.</p> <p>Adequate mitigation measures (like covering all the open areas with green cover, adequate trees, shrubs, ground cover etc.) are taken to maintain the ambient air quality within the prescribed standards.</p> <p>The ambient air quality monitoring reports are attached as <b>Annexure-III</b>.</p>
(x)	Increment pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.	<p>This condition is being complied with.</p> <p>Ambient air quality, noise and water quality are periodically monitored and the incremental pollution load on the ambient air is negligible.</p>
(xi)	Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the apartment should be provided.	<p>This condition is complied with.</p> <p>Solar panels are installed at the township for powering the security fence.</p>
(xii)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	<p>This condition is being complied with.</p> <p>HMEL security is placed at the entry and exit points of the township to ensure that there is no traffic congestion on the main road. Parking is fully internalised and has been provided on the stilt floor of apartment buildings; no public space is utilised.</p>
(xiii)	A report on the energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology; R & U factors etc. and submit to the Ministry in three months' time.	<p>This condition is complied with.</p> <p>The Energy Compliance Report for HMEL-Township on energy conservation measures has already been submitted to the Ministry's Regional Office via our letter no. HMEL-TS-40-ENV 55 dated 25<sup>th</sup> June, 2013.</p> <p>Subsequently, a letter on the energy conservation measure was also submitted to RO, MoEF&amp;CC, on 5<sup>th</sup> December, 2018.</p>
(xiv)	Ozone depleting substance (regulation & control) Rules should be followed while	This condition is complied with.

	designing the air conditioning system of the project.	<p>There is no such equipment installed in township which utilises ozone depleting substances.</p> <p>There are no Central AC System installed in any of the township buildings. Stand-alone AC units have been installed at club house and residential units. The manufacturers of standalone AC's no longer make air conditioners that use Ozone Depleting Substance (ODS).</p>
(xv)	Environment Management Cell should be formed during operation phase which will supervise and monitor the environment related aspects of the project.	A dedicated Environment Management Cell headed by the Dy. General Manager (Environment) looks after the Environmental Management and monitoring functions of the HMEL- Township.
<b>PART-B GENERAL CONDITIONS</b>		
(i)	Six Monthly Monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh.	<p>This condition is being complied with.</p> <p>Six monthly monitoring reports are being submitted to the Ministry and its Regional Office, Chandigarh.</p> <p>The last six monthly EC compliance reports were submitted to MoEF&amp;CC, CPCB, and PPCB vide letter no. HMEL-TS-40-ENV 1184, dated 25<sup>th</sup> November, 2024.</p>
(ii)	Officials from the Regional Office of MoEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be give full cooperation, facilities and documents/ data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional office of MoEF, Chandigarh.	This condition has been noted and is being complied with.
(iii)	In the case of any changes(s) in the scope of the project, the project would require a fresh appraisal by the Ministry.	The condition is noted.

(iv)	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	This condition is noted.
(v)	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the competent authorities.	Agreed, the NOC from the Fire Department has already been taken. Others are not applicable or required.
(vi)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zillah Parishad / Municipal Corporation / Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	<p>This condition is complied with.</p> <p>The company has not received any suggestions/representations while processing the proposal.</p> <p>A copy of the township environmental clearance has also been uploaded on the company's website vide the link mentioned below:</p> <p><a href="https://www.hmel.in/assets/pdf/EC_HMEL_To_twnship_07_10_2010.pdf">https://www.hmel.in/assets/pdf/EC_HMEL_To_twnship_07_10_2010.pdf</a></p>
(vii)	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Punjab Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . The advertisement should be made within 7 days from the day of issue of clearance letter and a copy of the	<p>This condition is complied with.</p> <p>An advertisement in a leading newspaper was published in the Punjabi newspaper "Desh Sevak" dated 27<sup>th</sup> October, 2010 and the English newspaper "The Indian Express" dated 28<sup>th</sup> October, 2010, informing that the project has been accorded environmental clearance. A letter informing about the grant of EC clearance was submitted to MoEF&amp;CC, RO, Chandigarh, vide our letter no. HMEL/Env/TS/VS/001 dated 29.11.2010.</p>

	same should be forwarded to the Regional Office of this Ministry at Chandigarh.	
(viii)	These stipulations would be enforced among others under the provisions of water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	This condition is noted and is being complied with.
(ix)	Under the provisions of Environment (protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	This condition is complied with.  The construction activity was commenced only after obtaining Environmental Clearance from MoEF&CC and Consent to Establish from PPCB.
(x)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective regional office of MoEF, the respective office of CPCB and the SPCB.	This condition is being complied with.  Six monthly monitoring reports are being submitted to Ministry at its Regional Office, Chandigarh.  The last six monthly EC compliance reports were submitted to MoEF&CC, CPCB, and PPCB vide letter no. HMEL-TS-40-ENV 1184, dated 25 <sup>th</sup> November, 2024.
(xi)	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in writ petition (Civil) No. 460 of 2004 as may be applicable to this project.	Condition noted.
(xii)	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	Condition noted.



**Six Monthly EC Compliance Report for Expansion of Residential Township (Phase-IV) at Village Raman & Tarakhanwala, Distt, Bathinda, Punjab by M/ s HPCL-Mittal Energy Ltd. (HMEL) (SIA/ PB/MIS/48965/2009).**

**EC Letter No.: DECC/SEIAA/2020/1845, dated 29/07/2020**

S. no.	Condition	Compliance Status
<b>Statutory compliance:</b>		
(i)	The project proponent shall obtain all necessary clearances/permissions from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(ii)	The approval of the Competent Authority shall be obtained for the structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.	Complied with  The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(iii)	The project proponent shall obtain forest clearance under the provisions of Forest Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not required as there is no diversion of any forest land.
(iv)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not Applicable
(v)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Punjab Pollution Control Board.	This condition is complied with.  Consent to Establish was obtained from PPCB, and Consent to Operate has also been obtained from PPCB under the Water Act, 1974 and the Air Act, 1981.  CTO copies are attached as <b>Annexure-IV</b> .  Valid till 31.03.2028.
(vi)	The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.	Not applicable as there is no extraction of ground water.

S. no.	Condition	Compliance Status
(vii)	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(viii)	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.	Agreed, NOC from Fire Department has already taken. Others are not applicable/required.
(ix)	The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules, 2016 and the Plastics Waste (Management) Rules, 2016 shall be followed.	Condition is being complied with.
(x)	The project proponent shall follow the ECBC/ECBC-R prescribed by the Bureau of Energy Efficiency, Ministry of Power strictly.	Condition is complied with.  The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(xi)	The project site shall conform to the suitability as prescribed under the provisions laid down under the master plan of respective city/town. For that, the project proponent shall either submit the NOC/land use conformity certificate from Dept. of town and country Planning or other concerned authority under whose jurisdiction, the site falls.	Complied with  Since this was an expansion project on existing land for which we have already obtained CLU.
(xii)	Besides above, the project proponent shall also comply with siting criteria /guidelines, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF & CC for such type of projects.	Condition was complied with as CLU had already been obtained. No other siting criteria or guidelines are applicable.
(xiii)	The project proponent shall get the layout plans approved from the Competent Authority for the activities/establishments to be set up at the project	Complied with  We got the layout plans approved from the Competent Authority vide letter no.

S. no.	Condition	Compliance Status
	site in consonance with the project proposal for which this environment clearance is applied.	739 CTP(PB)/SB-123 dated 18 <sup>th</sup> February, 2020.
<b>II. Air quality monitoring and preservation</b>		
(i)	Notification GSR 94(E) dated 25.01.2018 of MoEF & CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(ii)	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(iii)	The project proponent shall install a system to carryout Ambient Air Quality monitoring for common criterion parameters relevant-to the main pollutants released (e.g. PM 10 and PM 2.5) covering upwind and downwind directions during the construction period.	Complied with.
(iv)	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel should be ensured. The location of the DG sets may be decided in consultation with Punjab Pollution Control Board.	This condition is complied with.
(v)	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/wind breaking walls all around the site (at least 3m height or 1/3rd of the building height and maximum up to 10m). Plastic/ tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.

S. no.	Condition	Compliance Status
	pollution at the site as well as taking out debris from the site.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(vi)	No Excavation of soil shall be carried out without adequate dust mitigation measures in place.	
(vii)	No loose soil or sand or construction & demolition waste or any other construction material that causes dust shall be left uncovered.	
(viii)	No uncovered vehicles carrying construction material and waste shall be permitted.	
(ix)	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	
(x)	Grinding and Cutting of building material in open area shall be prohibited. Wet jet shall be provided for grinding and stone cutting.	
(xi)	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	
(xii)	All construction and demolition debris shall be stored at the site within earmarked area and road side storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.	
(xiii)	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to the standards as enumerated in the Environmental (Protection) Rules, 1986 as prescribed for air and noise emission.	
(xiv)	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall	Condition is being complied with.  Adequate stack height and an acoustic enclosure have been provided for gaseous emissions and noise control from the DG set as per CPCB standards.

S. no.	Condition	Compliance Status
	be as per the provisions of the Central Pollution Control Board (CPCB) norms.	
(xv)	For indoor air quality the ventilation provisions as per National Building Code of India shall be followed.	Condition complied with.  We have provided ventilation provisions as per the National Building Code of India for indoor air quality.
(xvi)	Roads leading to or at construction site must be paved and blacktopped (Le. metallic road)	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(xvii)	Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(xviii)	Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measure be notified at the site.	
III. Water quality monitoring and preservation		
(i)	The natural drain system should be maintained for ensuring unrestricted flow of water.	Condition is complied with.  There is no additional land and it is an expansion project. In the existing land area. There is no restriction on the flow of storm water in the area.
(ii)	No construction shall be allowed to obstruct the natural drainage through the Site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.	
(iii)	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	Cutting and filling were not required as it is plain land.
(iv)	The total water requirement for the project including the demand of landscaping in summer season will be 1714 KLD, out of which 985 KLD shall be met through canal water and remaining through recycling of treated wastewater. Total freshwater use shall not exceed the proposed requirement as provided in the project details.	Condition is being complied with.

S. no.	Condition	Compliance Status																				
(v)	<p>a) The total wastewater generation from the project will be 767 KLD, which will be treated in proposed STP of 993 KLD (493 KLD and 500 KLD) capacity to be installed within the project premises. However, 729 KLD treated wastewater will be available at the outlet of STPs after considering evaporation losses. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater shall be as under: -</p> <table><tr><th>Sr. No.</th><th>Season</th><th>Flushing (KLD)</th><th>Green area (KLD)</th><th>Storage in Artificial pond (KLD)*</th></tr><tr><td>1.</td><td>Summer</td><td>296</td><td>433</td><td>0</td></tr><tr><td>2.</td><td>Winter</td><td>296</td><td>271</td><td>162</td></tr><tr><td>3.</td><td>Rainy</td><td>296</td><td>0</td><td>433</td></tr></table> <p>Note* Stored treated wastewater shall be given to nearby farmers for utilizing the same for irrigation purpose after getting mutual consent and or for road sprinkling/construction purposes.</p>	Sr. No.	Season	Flushing (KLD)	Green area (KLD)	Storage in Artificial pond (KLD)*	1.	Summer	296	433	0	2.	Winter	296	271	162	3.	Rainy	296	0	433	<p>Condition is being complied with.</p> <p>A meter has been provided at the outlet of STP, and a daily record of the same is maintained. The treated water is recycled and distributed through the common header to the dwelling units (apartments and villas) and green areas for flushing and plantation. Every household is given an individual connection for the utilisation of treated waste water for flushing purposes as well as for gardening purposes in that particular dwelling unit. The common green area in the township is also irrigated with treated waste water.</p> <p>We have installed a sufficient number of water meters on the pipelines through which treated waste water is being utilised in the major green areas.</p>
Sr. No.	Season	Flushing (KLD)	Green area (KLD)	Storage in Artificial pond (KLD)*																		
1.	Summer	296	433	0																		
2.	Winter	296	271	162																		
3.	Rainy	296	0	433																		
	b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.	<p>The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.</p>																				
	c) During construction phase, the project proponent shall ensure that the wastewater being generated from the labour quarters/ toilets shall be treated and disposed in environment friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of such wastewater and treated effluents shall be utilized for green area/plantation.																					
(vi)	The project proponent shall ensure safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.																					
(vii)	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected	<p>Condition is being complied with.</p>																				

S. no.	Condition	Compliance Status
	by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six-monthly monitoring reports.	A record of fresh water used and waste water reused is being maintained.
(viii)	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.	Complied with.  Permission has already been obtained from the Water Resources Department.  A copy of the same is attached as <b>Annexure-V</b> .
(ix)	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	Complied.  Approximately 25% of the landscape green area of the total site area has been provided.
(x)	Installation of dual pipe plumbing for supplying freshwater for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.	Complied with.  Dual piping for fresh water and for flushing and landscaping is provided.
(xi)	The respective project proponent shall discourage the installation of R.O. plants in their projects in order to save the wastage in form of RO reject. However, in case the requirement of installing RO plant is utmost necessary then the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component i.e. (Tower/Mall) or in a common place in the project premises.	Complied.
(xii)	The project proponent shall also adopt the new/innovating technologies like less water discharging taps (faucet with aerators)/urinals with electronic sensor system /water less urinals/twin flush cisterns/sensor based alarming system for overhead water storage tanks and make it a part of the environmental management plans / building plans so as to reduce the water	Our water network has a demand-driven distribution system by Ground, which reduces leakages, reduces the risk of pipe bursts, optimises water consumption considering the changes in water and energy demand, and saves energy.

S. no.	Condition	Compliance Status																								
	consumption/groundwater abstraction in their Building Construction & Industrial projects.																									
(xiii)	<p>The project proponent will provide plumbing system for reuse of treated wastewater for flushing/ HVAC/ other purposes etc. and colour coding of different pipe lines carrying water/wastewater from different sources / treated wastewater as follows:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Nature of Steam</th><th>Colour Code</th></tr> </thead> <tbody> <tr> <td>a</td><td>Fresh water</td><td>Blue</td></tr> <tr> <td>b</td><td>Untreated wastewater from Toilets/ urinal &amp; from kitchen</td><td>Black</td></tr> <tr> <td>c</td><td>Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from cloth washing</td><td>Grey</td></tr> <tr> <td>d</td><td>Reject water streams from RO plants &amp; AC condensate (this is to be implemented wherever centralized AC system and common RO has been proposed in the Project). Further, in case of individual houses/establishment this proposal may also be implemented wherever possible.</td><td>White</td></tr> <tr> <td>e</td><td>Treated wastewater (for reuse only for plantation purposes) from the STP treating black water</td><td>Green</td></tr> <tr> <td>f</td><td>Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating grey water.</td><td>Green with strips</td></tr> <tr> <td>g</td><td>Storm water</td><td>Orange</td></tr> </tbody> </table>	Sr. No.	Nature of Steam	Colour Code	a	Fresh water	Blue	b	Untreated wastewater from Toilets/ urinal & from kitchen	Black	c	Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from cloth washing	Grey	d	Reject water streams from RO plants & AC condensate (this is to be implemented wherever centralized AC system and common RO has been proposed in the Project). Further, in case of individual houses/establishment this proposal may also be implemented wherever possible.	White	e	Treated wastewater (for reuse only for plantation purposes) from the STP treating black water	Green	f	Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating grey water.	Green with strips	g	Storm water	Orange	<p>This condition is complied with.</p> <p>A plumbing system for the reuse of treated waste water for flushing and horticulture has been provided.</p>
Sr. No.	Nature of Steam	Colour Code																								
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(xiv)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	The project is commissioned, and all these conditions were complied with during the																								



S. no.	Condition	Compliance Status
		construction phase, as already submitted with the previous compliance reports.
(xv)	A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. Thus, 189 no's of rainwater harvesting recharge pits (with dual-bore) shall be provided for groundwater recharging. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. The groundwater shall not be withdrawn without approval from the competent authority.	Condition complied with.
(xvi)	All recharge should be limited to shallow aquifer.	Complied with.
(xvii)	No groundwater shall be used during construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and available at site.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(xviii)	Any groundwater dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any groundwater abstraction or dewatering.	Condition noted for compliance.
(xix)	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six-monthly monitoring reports.	Condition is being complied with.  A record of fresh water used and waste water reused is being maintained.
(xx)	Sewage shall be treated in the STP with tertiary treatment. STP shall be installed in phased manner viz a viz in module system designed in such a way so as to efficiently treat the wastewater with increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. No	Complied with.  We have provided an MBR (membrane bioreactor) in our STP for the expansion phase.

S. no.	Condition	Compliance Status
	treated water shall be disposed of into municipal storm water drain.	Treated waste water is recycled and reused for flushing and horticulture purposes.
(xxi)	No sewage or untreated effluent water would be discharged through storm water drains. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) Shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.	An STP of adequate capacity based on MBR technology has been provided. Treated waste water is reused for flushing and horticulture purposes.
(xxii)	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	Condition is being complied with.  The water quality of treated sewage is being monitored on a regular basis, copies of the latest reports are attached as <b>Annexure-I</b> .
(xxiii)	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed of as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	This condition is being complied with.  The dried sludge from STP is being used as compost.
<b>IV. Noise monitoring and prevention</b>		
(i)	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction	Condition is being complied with.  Adequate measures have been taken to reduce ambient air and noise level in the form of a green belt all along the boundary wall.

S. no.	Condition	Compliance Status
	phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCS/SPCS.	Noise level monitoring reports are attached as <b>Annexure-II</b> , which show noise level well within the prescribed limits.
(ii)	Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the Ministry as a part of Six -monthly compliance report.	Condition is being complied with.  The overall noise level is well within standards. Various noise control measures, such as acoustic hoods, enclosures, etc., have been provided to reduce the impact of high-noise-generating equipment.  Noise monitoring reports are enclosed as <b>Annexure-II</b> .
(iii)	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be provided as mitigation measures for noise impact due to ground sources.	This condition is complied with.
<b>V. Energy Conservation measures</b>		
(i)	Compliance with the Punjab Energy Conservation Building Code (PECSC) of energy efficiency shall be ensured.	Condition is complied with.  We have followed the Punjab Energy Conservation Building Code (PECBC). A copy of the same is attached as <b>Annexure-VI</b> .
(ii)	Outdoor and common area lighting shall be LED.	Complied with.  We have installed LEDs to light the area inside as well as outside the buildings.
(iii)	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.

S. no.	Condition	Compliance Status
	building design. Wall, window, and roof u-values shall be as per ECSC specifications.	
(iv)	Energy conservation measures like installation of LEDs for lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.	Complied with.  We have installed LEDs to light the area inside as well as outside the buildings.
(v)	Solar, wind or any other Renewable Energy equipment shall be installed to meet electricity generation equivalent to at least 1% of the demand load or as per the state level local building bye-laws requirement, whichever is higher.	Complied with.  To meet electricity generation for 2.22% of the total power demand, 290 KW of solar panels have been provided.
(vi)	Solar power by utilizing at least 30% of the rooftop area shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power.	This condition is complied with.  A separate electric meter has been installed for solar power.
<b>VI. Waste Management</b>		
(i)	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.	Complied with.  We have already installed a mechanical composter to convert the biodegradable waste to compost.
(ii)	Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Not applicable as our land was plain and clear. So no muck was generated.
(iii)	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	Condition is being complied with.
(iv)	Organic waste compost Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg / person/ day must be installed for treatment and disposal of the waste.	Complied with.  We have already installed a mechanical composter for converting the

S. no.	Condition	Compliance Status
		biodegradable waste to compost, with a design capacity of 2000 kg/day.
(v)	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	This condition is complied with.  Non-biodegradable & non-recyclable solid waste is sent to the approved/authorized recycler at Bathinda.
(vi)	Any hazardous waste generated during construction phase, shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(vii)	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks. MCs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.	
(viii)	Fly ash should be used as building material In the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27 <sup>th</sup> August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.	
(ix)	Any wastes from construction and demolition activities related thereto shall be managed in such a way so as to strictly conform to the Construction and Demolition Rules, 2016.	
(x)	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	
<b>VII. Green Cover</b>		
(i)	No tree shall be felled/transplanted unless extreme exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the Concerned regulatory authority. Old trees should be	Complied with.  The project is commissioned, and all these conditions were complied with during the

S. no.	Condition	Compliance Status
	retained based on girth and Age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	construction phase, as already submitted with the previous compliance reports.
(ii)	At least single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sqm of total project land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, Broad leaves and wide canopy cover are desirable. Water intensive and/or Invasive species should not be used for landscaping. The plantation should be Provided as per SEIM guidelines.	Complied with.  The total area of the township is 597580 sq. m. (~147 acres) and 7700 plants have already been planted.
(iii)	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 trees For every 1 tree that is cut) shall be done and maintained. Plantations to be Ensured species (cut) to species (planted). Area for green belt development Shall be provided as per the details provided in the project document.	Condition noted and being complied with.  However, no tree has been cut.
(iv)	Topsoil should be stripped to a depth of 20 cm from the areas proposed for Buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the Proposed vegetation on site.	Complied with during construction phase.
(v)	The project proponent shall not use any chemical fertilizer / pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic Manure in the green area.	Condition is being complied with.  We have been using only organic manure generated from the composter in the green area.
(vi)	The green belt along the periphery of the plot shall achieve attenuation factor Conforming to the day	Complied with.

S. no.	Condition	Compliance Status
	and night noise standards prescribed for residential land use.	A green belt has been provided inside the township as per standards prescribed for residential land use. Noise levels are well within the prescribed limits during daytime and night time hours.
<b>VIII. Transport</b>		
(i)	<p>A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized non-motorized, public, and private networks. Road should be designed with due consideration for environment, and Safety of users. The road system can be designed with these basic criteria.</p> <p>a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</p> <p>b) Traffic calming measures.</p> <p>c) Proper design of entry and exit pints.</p> <p>d) Parking norms as per local regulation.</p>	This condition stands complied with.
(ii)	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to Applicable air and noise emission standards and be operated only during nonpeak hours.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(iii)	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and Improved upon after the implementation of the Project. This plan should be based on Cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their	

S. no.	Condition	Compliance Status
	consent to the implementation of components of the plan which involve the participation of these departments.	
(iv)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	<p>This condition is complied with.</p> <p>HMEL security is placed at the entry and exit points of the township to ensure that there is no traffic congestion on the main road.</p> <p>Moreover, the township road connecting the main road is 20 metres wide. Parking is fully internalised and has been provided on the stilt floor of apartment buildings; no public space is utilised.</p>
<b>IX. Human health issues.</b>		
(i)	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(ii)	For indoor air quality the ventilation provisions as per National Building Code of India shall be strictly followed.	<p>Condition complied with.</p> <p>We have provided ventilation provisions as per the National Building Code of India for indoor air quality.</p>
(iii)	Emergency preparedness plan based on the Hazard identification and Risk Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile Toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(iv)	Occupational health surveillance of the workers shall be done on a regular basis.	



S. no.	Condition	Compliance Status																																																								
(v)	A First Aid Room shall be provided in the project both during construction and Operations of the Project.																																																									
X. Corporate Environment Responsibility.																																																										
(i)	<p>The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/ 2017-IA.III dated 1 first May 2018, as applicable, Regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for spending Rs: 195 Lakhs on CER activities mentioned as per details given below:</p> <table><tr><th colspan="8">Proposed Budget (in Lacs)</th></tr><tr><th>S.No.</th><th>CER Activities</th><th>2020-21</th><th>2021-22</th><th>2022-23</th><th>2023-24</th><th>2024-25</th><th>Total budget</th></tr><tr><td>1.</td><td>Provision of Water cooler in Public places/ Schools/ hospitals etc.</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>30</td></tr><tr><td>2.</td><td>Wastewater treatment of village pond (to be provided by the Department of Rural</td><td>30</td><td>30</td><td>30</td><td>30</td><td>30</td><td>150</td></tr></table> <table><tr><td></td><td>Developments and Panchayats, Govt. of Punjab), as per the design evolved by Punjab Pollution Control Board.</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3.</td><td>Provision of toilet blocks or upgradation of existing toilets facilities in schools/ health care centres/ villages</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>15</td></tr><tr><td></td><td>Total</td><td>39</td><td>39</td><td>39</td><td>39</td><td>39</td><td>195</td></tr></table> <p>*Note: - The amount to be spent on CER activities shall be proportionate to the Amount spent on project &amp; such activities shall run parallel to the project execution. All the activities must be completed with the completion of the Project.</p>	Proposed Budget (in Lacs)								S.No.	CER Activities	2020-21	2021-22	2022-23	2023-24	2024-25	Total budget	1.	Provision of Water cooler in Public places/ Schools/ hospitals etc.	6	6	6	6	6	30	2.	Wastewater treatment of village pond (to be provided by the Department of Rural	30	30	30	30	30	150		Developments and Panchayats, Govt. of Punjab), as per the design evolved by Punjab Pollution Control Board.							3.	Provision of toilet blocks or upgradation of existing toilets facilities in schools/ health care centres/ villages	3	3	3	3	3	15		Total	39	39	39	39	39	195	<p>We have to spend INR 195 lacs for Township Phase-IV under CER activities. Recently, we spent INR 70 lacs on a waste treatment facility at Phullokahri village under CER activity in 2018–19. We were perusing the surrounding villages for further CER activities, but due to the COVID-19 scenario, we were unable to spend more money in this situation.</p> <p>In view of the above, due to the COVID-19 pandemic, CER activity could not be started in FY 2022-23.</p> <p>HMEL-Township has submitted a revised plan to spend the CER amount during the period of FY 2023–24 to FY 2029–30.</p> <p>A detailed year-wise CER plan is enclosed for reference as <b>Annexure-VII</b>.</p>
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S. no.	Condition	Compliance Status
(ii)	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper check and balances and to bring into focus any infringements /deviation/violation of the environmental /forest / Wildlife norms / conditions. The company shall have defined system of reporting Infringements / deviation / violation of the environmental/forest / wildlife Norms / conditions to all shareholder or stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six monthly report.	Complied with.  A copy of the environmental policy duly approved by the Board of Directors is enclosed as <b>Annexure VIII</b> .
(iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report of the head of the organization.	Complied with.  A dedicated Environment Management Cell headed by Deputy General Manager (Environment) looks after the Environmental Management and monitoring functions of the township.
(iv)	Action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The Year-wise funds earmarked for Environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs: 16.0 Lacs. towards the capital cost and Rs: 5.0 lacs/annum towards recurring cost in the construction phase of the project including the environmental monitoring cost and shall spend a minimum amount of Rs: 270 Lacs towards the capital cost and Rs: 32.0 Lacs/annum towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of the environmental management plan is transferred to the occupier/resident's society. Under proper MOU	Being complied with. EMP is already being implemented as an expansion project.

S. no.	Condition	Compliance Status
	under intimation to SEIAA, Punjab. Year wise progress of implementation of action plan shall be reported to the ministry\Regional office along with the six monthly compliance Report.	
<b>XI. Validity</b>		
(i)	This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project whichever is earlier.	Condition noted.
<b>XII. Miscellaneous</b>		
(i)	The project proponent before allowing any occupancy shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to SEIAA, Punjab.	This condition is complied with.  A copy of the certificate is attached as <b>Annexure IV</b> .
(ii)	The project proponent shall comply with the conditions of CLU.	Complied with.
(iii)	The project proponent shall prominently advertise it at least in two local newspapers of the District or state, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC / SEIAA website where it is displayed.	The project is commissioned, and all these conditions were complied with during the construction phase, as already submitted with the previous compliance reports.
(iv)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	
(v)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on a half- yearly basis.	Condition is being complied with.  <a href="https://www.hmel.in/assets/pdf/Six_Monthly_EC_Compliance_report_HMEL-Township.pdf">https://www.hmel.in/assets/pdf/Six_Monthly_EC_Compliance_report_HMEL-Township.pdf</a>

S. no.	Condition	Compliance Status
(vi)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at Environment Clearance Portal.	<p>This condition has been noted and is being complied with.</p> <p>We have submitted the last six-monthly reports on the status of compliance with the stipulated environmental conditions on the website of the Ministry of Environment, Forestry, and Climate Change at the Environment Clearance Portal.</p> <p>The last six monthly EC compliance reports were submitted to MoEF&amp;CC, CPCB, and PPCB vide letter no. HMEL-TS-40-ENV 1184, dated 25th November, 2024. (Ref. <b>Annexure-IX</b>).</p>
(vii)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control board as prescribed under the environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Being complied with.
(viii)	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production/operation by the project.	<p>Complied with.</p> <p>The requested project milestones are as follows:</p> <ol style="list-style-type: none"> <li>1. Financial board approval: 03.09.2018</li> <li>2. Project start date: 12.12.2018</li> <li>3. Financial Closure: 30.05.2021</li> </ol>
(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Condition noted for compliance.
(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee and SEIAA.	Condition is being complied with.

<b>S. no.</b>	<b>Condition</b>	<b>Compliance Status</b>
(xi)	No further expansion or modifications in the plant/project shall be carried out without prior approval of the ministry of Environment, Forests and Climate change (MoEF&CC).	Condition noted for compliance.
(xii)	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (protection) Act, 1986.	Condition noted.
(xiii)	The SEIAA/Ministry may revoke or suspend the clearance if the implementation of any of the above conditions is not satisfactory.	Condition noted.
(xiv)	The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary, The Company in a time-bound manner shall implement these conditions.	Condition noted.
(xv)	The Regional Office of this Ministry and Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office and PPCB by furnishing the requisite data/information/monitoring reports.	Condition noted.
(xvi)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Condition noted.
(xvii)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Condition noted.

S. no.	Condition	Compliance Status
<b>Additional Condition:</b>		
	Committee decided that the project proponent shall not install a Reverse Osmosis (RO) plant in the individual apartment/ Villas/ Guest Rooms etc. for water treatment.	<p>No RO plant is installed at the site for water treatment.</p> <p>Individual apartments, villas, or guest rooms for the expansion project will be provided with UV water purifiers.</p>

## **ANNEXURE-I**



# ALKOM SYNERGY PVT LTD

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-041124-49	04/11/2024

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 23/10/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 24/10/2024 To 04/11/2024

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.65	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.1	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	8.6	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	40.4	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	6.5	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.54	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.62	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.46	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-041124-50	04/11/2024

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On	:	23/10/2024
Sample Collected By	:	Laboratory
Sample Description	:	Waste Water (STP Inlet, HMEL- Township Phase-1)
Sample Quantity/Packing detail	:	2.0 lts
Weather Conditions	:	Normal
Analysis Duration	:	24/10/2024 To 04/11/2024

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.30	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	25.1	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	87.6	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	95.1	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	30.7	IS:-3025 (P:-44)
6	O & G	mg/l	9.3	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	10.6	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	12.4	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	10.8	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-041124-51	04/11/2024

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 23/10/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL-Township Phase-2  
& Phase-3 common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 24/10/2024 To 04/11/2024

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.68	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.1	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	6.9	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	27.5	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	6.1	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.62	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.76	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.02	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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Tel.: 0120-4320319 Mob.:+91-8882196187  
Email: info@alkom.in, www.alkomsynergy.com



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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-041124-52	04/11/2024

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On	: 23/10/2024
Sample Collected By	: Laboratory
Sample Description	: Waste Water (STP Inlet, HMEL-Township Phase-2 & Phase-3 common STP)
Sample Quantity/Packing detail	: 2.0 lts
Weather Conditions	: Normal
Analysis Duration	: 24/10/2024 To 04/11/2024

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.24	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	0C	23.1	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	72.5	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	90.2	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	27.8	IS:-3025 (P:-44)
6	O & G	mg/l	9.5	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	10.1	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	10.8	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	11.5	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-041124-53	04/11/2024

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 23/10/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Inlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 24/10/2024 To 04/11/2024

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.27	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.1	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	80.6	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	91.3	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	25.7	IS:-3025 (P:-44)
6	O & G	mg/l	7.3	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	8.9	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	11.1	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	10.5	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-041124-54	04/11/2024

**Issued To:-**M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo, District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 23/10/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 24/10/2024 To 04/11/2024

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.39	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.1	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	6.5	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	30.2	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	5.9	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.53	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO <sub>4</sub> -P*	mg/l	0.49	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.12	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-091224-23	09/12/2024

Issued To:- M/s HPCL-Mittal Energy Limited, Village:-Phullokhar, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 26/11/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 27/11/2024 To 02/12/2024

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.59	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	7.2	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	42.8	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	6.1	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.71	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.66	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.91	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-091224-24	09/12/2024

Issued To:- M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 26/11/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Inlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 27/11/2024 To 02/12/2024

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.45	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	0C	24.5	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	78.6	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	90.2	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	32.5	IS:-3025 (P:-44)
6	O & G	mg/l	8.9	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	12.7	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	13.2	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	11.8	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-091224-25	09/12/2024

Issued To:- M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 26/11/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL-Township Phase-2 & Phase-3 common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 27/11/2024 To 02/12/2024

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.57	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	7.7	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	31.5	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	7.2	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.79	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.62	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	6.81	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-091224-26	09/12/2024

Issued To:- M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 26/11/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Inlet, HMEL-Township Phase-2 & Phase-3 common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 27/11/2024 To 02/12/2024

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.12	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	0C	23.7	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	75.9	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	92.4	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	29.1	IS:-3025 (P:-44)
6	O & G	mg/l	9.9	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	10.7	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	11.2	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	10.9	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-091224-27	09/12/2024

Issued To:- M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On	: 26/11/2024
Sample Collected By	: Laboratory
Sample Description	: Waste Water (STP Inlet, HMEL- Township Phase-4)
Sample Quantity/Packing detail	: 2.0 lts
Weather Conditions	: Normal
Analysis Duration	: 27/11/2024 To 02/12/2024

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.21	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.3	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	82.7	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	90.5	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	26.8	IS:-3025 (P:-44)
6	O & G	mg/l	6.2	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	8.1	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	10.0	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	10.3	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-091224-28	09/12/2024

Issued To:- M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 26/11/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 27/11/2024 To 02/12/2024

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.44	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	7.0	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	33.9	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	7.4	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.69	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO <sub>4</sub> -P*	mg/l	0.55	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.82	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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TC-9580

## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-060125-50	06/01/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 11/12/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Inlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 13/12/2024 To 06/01/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.30	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	0C	21.5	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	80.2	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	89.5	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	25.1	IS:-3025 (P:-44)
6	O & G	mg/l	7.1	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	8.2	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	10.8	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	12.4	APHA:-23 <sup>rd</sup> Ed.

  
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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-060125-49	06/01/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 11/12/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL- Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 13/12/2024 To 06/01/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.71	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	22.6	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	9.1	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	38.5	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	6.1	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.36	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.52	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.26	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-060125-52	06/01/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 11/12/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Inlet, HMEL-Township Phase-2 & Phase-3 common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 13/12/2024 To 06/01/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	6.12	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	0C	22.6	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	74.1	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	92.4	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	29.8	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	9.1	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	11.5	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	11.1	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	12.6	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

  
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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-060125-51	06/01/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 11/12/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Outlet, HMEL-Township Phase-2  
& Phase-3 common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 13/12/2024 To 06/01/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.61	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	22.6	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	6.4	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	26.3	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	6.5	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.53	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.64	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.16	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

  
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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-060125-53	06/01/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 11/12/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Inlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 13/12/2024 To 06/01/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.39	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	22.6	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	82.1	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	90.5	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	27.8	IS:-3025 (P:-44)
6	O & G	mg/l	8.2	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	9.5	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	10.4	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	11.9	APHA:-23 <sup>rd</sup> Ed.

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Waste Water	WW-60125-54	06/01/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Collected On : 11/12/2024  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 13/12/2024 To 06/01/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.40	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	22.6	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	6.1	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	28.5	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	5.2	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.32	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.39	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	6.92	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-050225-26	05/02/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 24/01/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Inlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 25/01/2025 To 05/02/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.12	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	85.1	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	92.4	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	29.7	IS:-3025 (P:-44)
6	O & G	mg/l	9.1	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	8.6	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	11.1	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	10.6	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-050225-21	05/02/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 24/01/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 25/01/2025 To 05/02/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.62	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	8.2	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	36.4	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	5.1	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.23	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.41	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.15	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-050225-23	05/02/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 24/01/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Inlet, HMEL-Township Phase-2  
& Phase-3 Common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 25/01/2025 To 05/02/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.54	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	76.5	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	94.1	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	31.7	IS:-3025 (P:-44)
6	O & G	mg/l	8.1	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	12.3	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	10.1	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	14.8	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-050225-22	05/02/2025

**Issued To:-**M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 24/01/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL-Township  
Phase-2 & Phase-3 Common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 25/01/2025 To 05/02/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.67	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	7.1	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	27.8	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	5.5	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.69	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.52	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	6.98	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-050225-24	05/02/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 24/01/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Inlet, HMEL-Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 25/01/2025 To 05/02/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
			W:-6	
1	pH	-	7.22	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	6.1	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	30.4	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	8.1	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.82	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.70	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	8.15	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-050225-25	05/02/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 24/01/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL- Township  
Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 25/01/2025 To 05/02/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.46	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	23.9	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	5.4	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	26.1	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	4.9	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.24	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.31	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.36	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-060325-26	06/03/2025

**Issued To:-**M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 19/02/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Inlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 21/02/2025 To 06/03/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.83	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	24.6	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	83.4	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	94.1	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	30.8	IS:-3025 (P:-44)
6	O & G	mg/l	8.3	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	9.6	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	10.2	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	9.0	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-060325-21	06/03/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhar, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 19/02/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Outlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 21/02/2025 To 06/03/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.49	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	24.6	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	7.1	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	35.9	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	4.6	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.18	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.36	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	6.98	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-060325-22	06/03/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 19/02/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL-Township Phase-2  
& Phase-3 common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 21/02/2025 To 06/03/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.50	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	26.4	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	6.8	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	26.2	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	5.0	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.43	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.61	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	6.23	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

\*\*\*End of Report\*\*\*

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-060325-23	06/03/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo, District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 19/02/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Inlet, HMEL-Township Phase-2 & Phase-3 common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 21/02/2025 To 06/03/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.43	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	0C	26.5	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	72.9	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	96.5	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	33.2	IS:-3025 (P:-44)
6	O & G	mg/l	9.0	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	11.8	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	9.6	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	12.2	APHA:-23 <sup>rd</sup> Ed.

\*\*\*End of Report\*\*\*

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-060325-24	06/03/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo, District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 19/02/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Inlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 21/02/2025 To 06/03/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	7.20	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	24.1	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	6.6	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	32.4	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	8.4	IS:-3025 (P:-44)
6	O & G	mg/l	8.3	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	9.78	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	8.3	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	9.26	APHA:-23 <sup>rd</sup> Ed.

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\*\*\*End of Report\*\*\*



**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-060325-25	06/03/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 19/02/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 21/02/2025 To 06/03/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.39	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	24.3	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	4.8	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	24.2	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	4.0	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.39	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO <sub>4</sub> -P*	mg/l	0.21	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	6.58	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-070425-26	07/04/2025

**Issued To:-**M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 14/03/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Inlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 17/03/2025 To 07/04/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.70	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	27.4	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	81.5	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	92.9	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	33.5	IS:-3025 (P:-44)
6	O & G	mg/l	8.8	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	9.0	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	10.9	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	9.3	APHA:-23 <sup>rd</sup> Ed.

\*\*\*End of Report\*\*\*

  
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**ALKOM SYNERGY PVT LTD****TEST REPORT**

**Laboratory:-** C-212, 2nd & 3rd Floor,  
Sector-10, Noida-201301, U.P.(INDIA)  
Tel.: 0120-4320319 Mob.:+91-8882196187  
Email: info@alkom.in, www.alkomsynergy.com

Test Report of	Report Code	Date of Issue
Waste Water	WW-070425-21	07/04/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhar, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 14/03/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Outlet, HMEL-Township Phase-1)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 17/03/2025 To 07/04/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.48	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	27.4	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	6.2	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	37.9	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	5.6	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.23	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.39	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	6.12	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

\*\*\*End of Report\*\*\*

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**ALKOM SYNERGY PVT LTD**

Laboratory:- C-212, 2nd & 3rd Floor,  
Sector-10, Noida-201301, U.P.(INDIA)  
Tel.: 0120-4320319 Mob.:+91-8882196187  
Email: info@alkom.in, www.alkomsynergy.com

**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-070425-22	07/04/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 14/03/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL-Township Phase-2  
& Phase-3 common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 17/03/2025 To 07/04/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.31	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	27.4	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	5.7	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	23.9	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	4.7	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.52	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.66	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	6.81	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

\*\*\*End of Report\*\*\*

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**ALKOM SYNERGY PVT LTD****TEST REPORT**

**Laboratory:-** C-212, 2nd & 3rd Floor,  
Sector-10, Noida-201301, U.P.(INDIA)  
Tel.: 0120-4320319 Mob.:+91-8882196187  
Email: info@alkom.in, www.alkomsynergy.com

Test Report of	Report Code	Date of Issue
Waste Water	WW-070425-23	07/04/2025

**Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhar, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India**

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 14/03/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Inlet, HMEL-Township Phase-2 & Phase-3 Common STP)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 17/03/2025 To 07/04/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	6.62	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	27.4	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	70.9	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	94.2	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	31.8	IS:-3025 (P:-44)
6	O & G	mg/l	8.6	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	10.2	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	8.9	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	11.3	APHA:-23 <sup>rd</sup> Ed.

\*\*\*End of Report\*\*\*

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Test Report of	Report Code	Date of Issue
Waste Water	WW-070425-24	07/04/2025

**Issued To:-**M/s HPCL-Mittal Energy Limited, Village:-Phullokhar, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 14/03/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water ( STP Inlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 17/03/2025 To 07/04/2025

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH	-	7.28	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	27.4	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	7.2	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	34.5	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	9.2	IS:-3025 (P:-44)
6	O & G	mg/l	8.0	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.63	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	8.9	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	8.24	APHA:-23 <sup>rd</sup> Ed.

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Waste Water	WW-070425-25	07/04/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village:-Phullokhari, Taluka:-Talwandi Saboo,  
District:-Bathinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Collected On : 14/03/2025  
Sample Collected By : Laboratory  
Sample Description : Waste Water (STP Outlet, HMEL- Township Phase-4)  
Sample Quantity/Packing detail : 2.0 lts  
Weather Conditions : Normal  
Analysis Duration : 17/03/2025 To 07/04/2025

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
1	pH	-	7.45	6.5 to 9.0	APHA:-23 <sup>rd</sup> Ed.
2	Temperature	°C	27.4	-	APHA:-23 <sup>rd</sup> Ed.
3	TSS	mg/l	5.1	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.
4	COD	mg/l	25.6	≤50mg/l	APHA:-23 <sup>rd</sup> Ed.
5	BOD	mg/l	5.0	≤10mg/l	IS:-3025 (P:-44)
6	O & G	mg/l	BDL	5.0 mg/l	APHA:-23 <sup>rd</sup> Ed.
7	Ammonical Nitrogen as N*	mg/l	1.42	≤5mg/l	APHA:-23 <sup>rd</sup> Ed.
8	PO4-P*	mg/l	0.25	≤2mg/l	APHA:-23 <sup>rd</sup> Ed.
9	N-total*	mg/l	7.12	≤10mg/l	APHA:-23 <sup>rd</sup> Ed.

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## **ANNEXURE-II**





## TEST REPORT

Test Report of Ambient Noise		Report Code	Date of Issue	
		AN-041124-10	04/11/2024	
Issued to		M/S HPCL-Mittal Energy Limited , Village-Phullokhari , Taluka –TalwandiSaboo, Distt. Bhatinda (Punjab) India		
Date of Sampling & Time		22/10/2024		
Name of the Location		HMELTOWNSHIP		
Sr. No.	Location	Test Result dB(A)		Test Result dB(A)
		Day Time		Night Time
1	Admin Office	54.1		43.8
2	STP Road-Phase-1	52.9		42.1
3	STP Road-Phase-2	53.6		42.3
4	Club House	54.1		43.7
5	Market Area-1	53.5		44.1
6	On Main Road- (Phase-1)	54.1		42.7
7	On Main Road- (Phase-2)	53.4		41.3
8	On Main Road- (Phase-3)	52.1		43.1
9	Near Shivalik Hostel	54.6		42.7
10	Near Township Admin Building	53.1		44.1
11	Near Organic Waste Convertor Machine	52.9		43.6
12	Health Centre	50.8		42.1
13	Market Area-2	54.6		41.8
14	STP Road Phase-3	53.1		42.6
15	STP Road Phase-4	54.6		41.9
16	STP Road Near Shivalik Hostel	53.2		42.8
17	Near Satluj Guest House	54.7		43.2
18	Near Beas Guest House	53.9		42.5
19	Near Aravali Hostel	54.1		43.1
20	Near Jahlum Guest House	52.8		41.4
Permissible Limit in *dB(A) Leq for Residential Area		55 dB(A)		45 dB(A)

\*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.

CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of Ambient Noise		Report Code	Date of Issue
		AN-091224-10	09/12/2024
Issued to		M/S HPCL-Mittal Energy Limited , Village-Phullokhari , Taluka –TalwandiSaboo, Distt. Bhatinda (Punjab) India	
Date of Sampling & Time		29/11/2024	
Name of the Location		HMELTOWNSHIP	
Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
1	Admin Office	54.9	42.5
2	STP Road-Phase-1	52.2	41.8
3	STP Road-Phase-2	54.6	42.2
4	Club House	53.9	41.7
5	Market Area-1	54.8	40.2
6	On Main Road- (Phase-1)	53.1	41.5
7	On Main Road- (Phase-2)	54.5	42.9
8	On Main Road- (Phase-3)	52.2	41.7
9	Near Shivalik Hostel	53.7	40.5
10	Near Township Admin Building	52.1	43.1
11	Near Organic Waste Convertor Machine	54.3	42.8
12	Health Centre	50.1	41.3
13	Market Area-2	52.7	40.7
14	STP Road Phase-3	53.1	42.8
15	STP Road Phase-4	52.9	41.6
16	STP Road Near Shivalik Hostel	51.5	42.4
17	Near Satluj Guest House	52.7	40.9
18	Near Beas Guest House	53.1	42.4
19	Near Aravali Hostel	52.8	41.9
20	Near Jahlum Guest House	53.3	42.7
Permissible Limit in *dB(A) Leq for Residential Area		55 dB(A)	45 dB(A)

\*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.

CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of Ambient Noise		Report Code	Date of Issue	
		AN-060125-10	06/01/2025	
Issued to		M/S HPCL-Mittal Energy Limited , Village-Phullokhari , Taluka –TalwandiSaboo, Distt. Bhatinda (Punjab) India		
Date of Sampling & Time		10/12/2024		
Name of the Location		HMELTOWNSHIP		
Sr. No.	Location	Test Result dB(A)		Test Result dB(A)
		Day Time		Night Time
1	Admin Office	53.6		41.1
2	STP Road-Phase-1	51.9		40.3
3	STP Road-Phase-2	54.2		41.9
4	Club House	52.9		40.5
5	Market Area-1	53.1		41.9
6	On Main Road- (Phase-1)	52.6		40.1
7	On Main Road- (Phase-2)	53.8		43.5
8	On Main Road- (Phase-3)	51.3		42.1
9	Near Shivalik Hostel	52.8		41.0
10	Near Township Admin Building	51.2		42.5
11	Near Organic Waste Convertor Machine	54.9		41.1
12	Health Centre	51.0		40.3
13	Market Area-2	53.5		41.9
14	STP Road Phase-3	52.8		41.1
15	STP Road Phase-4	53.5		40.8
16	STP Road Near Shivalik Hostel	52.1		43.5
17	Near Satluj Guest House	51.6		41.1
18	Near Beas Guest House	52.4		43.6
19	Near Aravali Hostel	51.1		42.0
20	Near Jahlum Guest House	54.5		41.9
Permissible Limit in *dB(A) Leq for Residential Area		55 dB(A)		45 dB(A)

\*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.

CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of Ambient Noise		Report Code AN-050225-10	Date of Issue 10/02/2025	
Issued to		M/S HPCL-Mittal Energy Limited , Village-Phullokhari , Taluka –TalwandiSaboo, Distt. Bhatinda (Punjab) India		
Date of Sampling & Time		06/01/2025		
Name of the Location		HMELTOWNSHIP		
Sr. No.	Location	Test Result dB(A) Day Time		Test Result dB(A) Night Time
1	Admin Office	54.1		40.9
2	STP Road-Phase-1	52.6		41.5
3	STP Road-Phase-2	54.8		42.1
4	Club House	53.1		41.5
5	Market Area-1	52.9		42.8
6	On Main Road- (Phase-1)	51.2		41.5
7	On Main Road- (Phase-2)	52.8		42.1
8	On Main Road- (Phase-3)	52.6		41.6
9	Near Shivalik Hostel	51.2		42.3
10	Near Township Admin Building	53.1		41.9
11	Near Organic Waste Convertor Machine	54.9		43.1
12	Health Centre	50.2		40.8
13	Market Area-2	54.4		42.5
14	STP Road Phase-3	53.2		41.1
15	STP Road Phase-4	51.6		43.5
16	STP Road Near Shivalik Hostel	52.8		42.1
17	Near Satluj Guest House	51.6		41.7
18	Near Beas Guest House	50.9		40.3
19	Near Aravali Hostel	52.3		41.2
20	Near Jahlum Guest House	51.7		41.9
Permissible Limit in *dB(A) Leq for Residential Area		55 dB(A)		45 dB(A)

\*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.  
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of Ambient Noise		Report Code	Date of Issue
		AN-060325-10	06/03/2025
Issued to		M/S HPCL-Mittal Energy Limited , Village-Phullokhar , Taluka –TalwandiSaboo, Distt. Bhatinda (Punjab) India	
Date of Sampling & Time		14/02/2025	
Name of the Location		HMELTOWNSHIP	
Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
1	Admin Office	54.3	40.1
2	STP Road-Phase-1	52.9	43.5
3	STP Road-Phase-2	54.1	42.3
4	Club House	53.5	40.8
5	Market Area-1	54.8	42.3
6	On Main Road- (Phase-1)	53.1	41.5
7	On Main Road- (Phase-2)	54.0	43.2
8	On Main Road- (Phase-3)	53.8	41.4
9	Near Shivalik Hostel	52.1	41.0
10	Near Township Admin Building	53.7	40.6
11	Near Organic Waste Convertor Machine	54.2	43.8
12	Health Centre	51.1	40.0
13	Market Area-2	53.0	42.4
14	STP Road Phase-3	52.7	41.9
15	STP Road Phase-4	53.9	43.1
16	STP Road Near Shivalik Hostel	52.1	41.8
17	Near Satluj Guest House	53.7	42.5
18	Near Beas Guest House	52.9	43.1
19	Near Aravali Hostel	51.2	41.5
20	Near Jahlum Guest House	50.4	41.0
Permissible Limit in *dB(A) Leq for Residential Area		55 dB(A)	45 dB(A)

\*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.

CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of Ambient Noise		Report Code	Date of Issue
		AN-070425-10	07/04/2025
Issued to		M/S HPCL-Mittal Energy Limited , Village-Phullokhar, Taluka -TalwandiSaboo, Distt. Bhatinda (Punjab) India	
Date of Sampling & Time		19/03/2025	
Name of the Location		HMELTOWNSHIP	
Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
1	Admin Office	53.5	41.9
2	STP Road-Phase-1	51.8	44.5
3	STP Road-Phase-2	53.4	43.1
4	Club House	52.5	41.8
5	Market Area-1	54.1	43.5
6	On Main Road- (Phase-1)	52.6	42.8
7	On Main Road- (Phase-2)	53.9	41.6
8	On Main Road- (Phase-3)	52.5	42.3
9	Near Shivalik Hostel	53.4	43.7
10	Near Township Admin Building	52.1	42.5
11	Near Organic Waste Convertor Machine	53.9	41.9
12	Health Centre	52.5	42.2
13	Market Area-2	54.1	43.5
14	STP Road Phase-3	53.5	42.8
15	STP Road Phase-4	52.8	41.2
16	STP Road Near Shivalik Hostel	53.4	42.8
17	Near Satluj Guest House	52.1	41.6
18	Near Beas Guest House	53.6	41.8
19	Near Aravali Hostel	52.8	40.6
20	Near Jahlum Guest House	51.3	42.2
Permissible Limit in *dB(A) Leq for Residential Area		55 dB(A)	45 dB(A)

\*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.

CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

\*\*\*End of Report\*\*\*

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## **ANNEXURE-III**





## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-041124-07	04/11/2024

**Issued To:-**M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
**District:-**Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : Lab Representative  
Date of Sampling : 03/10/2024 To 29/10/2024  
Sample Description : Flat No. 101 to 108 on Terrace (Township)  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 30/10/2024 To 04/11/2024  
Ambient Average Temperature (°C) : 24  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.12  
Weather Condition : Cold

Date of Sampling	Time	AFR for RDS (m3/m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO- mg/m <sup>3</sup>
03/10/2024	16:15	1.11	BDL	BDL	BDL	BDL	50.4	88.1	7.2	15.4	0.624
07/10/2024	11:32	1.13	BDL	BDL	BDL	BDL	46.1	85.9	6.1	14.6	0.578
10/10/2024	16:17	1.10	BDL	BDL	BDL	BDL	48.8	87.2	8.5	15.1	0.619
14/10/2024	16:57	1.12	BDL	BDL	BDL	BDL	49.2	89.7	7.7	16.3	0.734
17/10/2024	8:40	1.10	BDL	BDL	BDL	BDL	47.9	86.5	6.9	14.1	0.518
21/10/2024	16:40	1.11	BDL	BDL	BDL	BDL	52.5	91.7	9.2	15.6	0.497
24/10/2024	16:20	1.12	BDL	BDL	BDL	BDL	49.7	88.1	8.1	16.3	0.504
28/10/2024	13:00	1.10	BDL	BDL	BDL	BDL	51.3	90.5	9.3	15.1	0.716
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV-1 2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

#### Notes:

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- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- This test report will not be used for any publicity/legal purpose.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-041124-08	04/11/2024

Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By	: Lab Representative
Date of Sampling	: 03/10/2024 To 29/09/2024
Sample Description	: Club House on Terrace (Township)
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 30/10/2024 To 04/11/2024
Ambient Average Temperature (°C)	: 24
Average Flow Rate of SPM (m <sup>3</sup> /min.)	: 1.11
Weather Condition	: Cold

Date of Sampling	Time	AFR for RDS (m <sup>3</sup> /m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
03/10/2024	16:20	1.10	BDL	BDL	BDL	BDL	43.2	85.7	5.6	15.2	0.491
07/10/2024	11:35	1.11	BDL	BDL	BDL	BDL	47.8	88.3	7.1	14.9	0.521
10/10/2024	16:22	1.09	BDL	BDL	BDL	BDL	50.9	91.7	8.9	16.1	0.398
14/10/2024	17:08	1.10	BDL	BDL	BDL	BDL	48.5	87.1	6.8	14.4	0.637
17/10/2024	8:50	1.12	BDL	BDL	BDL	BDL	51.3	90.9	9.5	15.8	0.451
21/10/2024	16:48	1.10	BDL	BDL	BDL	BDL	49.1	88.3	7.7	16.1	0.529
24/10/2024	16:30	1.09	BDL	BDL	BDL	BDL	45.4	86.1	6.4	15.7	0.494
28/10/2024	13:10	1.10	BDL	BDL	BDL	BDL	48.7	88.4	7.9	14.9	0.627
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

### Notes:

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\*\*\*End of Report\*\*\*

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Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-091224-07	09/12/2024

Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By	: Lab Representative
Date of Sampling	: 04/11/2024 To 29/11/2024
Sample Description	: Flat No. 101 to 108 on Terrace (Township)
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 02/12/2024 To 09/12/2024
Ambient Average Temperature (°C)	: 22
Average Flow Rate of SPM (m <sup>3</sup> /min.)	: 1.11
Weather Condition	: Cold

Date of Sampling	Time	AFR for RDS (m3/m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP <sup>*</sup> ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
04/11/2024	16:30	1.10	BDL	BDL	BDL	BDL	48.6	85.2	6.5	16.9	0.462
07/11/2024	16:10	1.09	BDL	BDL	BDL	BDL	51.3	89.8	7.9	14.2	0.519
11/11/2024	17:00	1.11	BDL	BDL	BDL	BDL	49.5	86.3	5.5	15.8	0.398
14/11/2024	16:30	1.08	BDL	BDL	BDL	BDL	52.7	91.1	8.1	15.1	0.462
18/11/2024	17:10	1.10	BDL	BDL	BDL	BDL	50.4	88.7	6.3	16.3	0.519
21/11/2024	16:24	1.11	BDL	BDL	BDL	BDL	49.2	86.9	7.5	17.8	0.476
25/11/2024	17:05	1.10	BDL	BDL	BDL	BDL	51.6	89.2	8.8	16.1	0.582
28/11/2024	16:20	1.12	BDL	BDL	BDL	BDL	48.2	87.8	6.3	15.7	0.498
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV:-1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

#### Notes:

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\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-091224-08	09/12/2024

**Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India**

### SAMPLING & ANALYSIS DATA

Sample Drawn By : Lab Representative  
Date of Sampling : 04/11/2024 To 29/11/2024  
Sample Description : Club House on Terrace (Township)  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 02/12/2024 To 09/12/2024  
Ambient Average Temperature (°C) : 22  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.12  
Weather Condition : Cold

Date of Sampling	Time	AFR for RDS (m3/m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP <sup>*</sup> ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO <sup>*</sup> mg/m <sup>3</sup>
04/11/2024	16:35	1.10	BDL	BDL	BDL	BDL	48.1	89.6	6.4	14.2	0.436
07/11/2024	16:15	1.11	BDL	BDL	BDL	BDL	50.5	91.8	7.3	16.7	0.398
11/11/2024	17:10	1.09	BDL	BDL	BDL	BDL	47.3	88.1	5.8	15.1	0.512
14/11/2024	16:40	1.10	BDL	BDL	BDL	BDL	50.9	89.4	6.5	14.4	0.628
18/11/2024	17:20	1.11	BDL	BDL	BDL	BDL	51.5	92.1	7.1	16.7	0.489
21/11/2024	16:30	1.09	BDL	BDL	BDL	BDL	48.7	87.4	6.5	15.1	0.527
25/11/2024	17:14	1.10	BDL	BDL	BDL	BDL	50.1	89.5	7.3	14.9	0.461
28/11/2024	16:25	1.11	BDL	BDL	BDL	BDL	48.3	86.1	5.7	16.3	0.397
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV:- 1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

#### Notes:

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**\*\*\*End of Report\*\*\***

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**TEST REPORT**

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-060125-07	06/01/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India

**SAMPLING & ANALYSIS DATA**

Sample Drawn By : Lab Representative  
Date of Sampling : 02/12/2024 To 27/12/2024  
Sample Description : Flat No. 101 to 108 on Terrace (Township)  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 28/12/2024 To 06/01/2025  
Ambient Average Temperature (°C) : 25  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.12  
Weather Condition : Cold

Date of Sampling	Time	AFR for RDS (m <sup>3</sup> /m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
02/12/2024	14:45	1.12	BDL	BDL	BDL	BDL	51.6	90.8	7.2	16.9	0.561
05/12/2024	16:40	1.11	BDL	BDL	BDL	BDL	49.2	87.6	6.9	15.5	0.345
09/12/2024	16:38	1.10	BDL	BDL	BDL	BDL	52.8	91.2	7.5	16.2	0.493
12/12/2024	16:25	1.09	BDL	BDL	BDL	BDL	49.2	88.5	6.3	17.3	0.508
16/12/2024	13:25	1.11	BDL	BDL	BDL	BDL	51.7	90.0	8.8	16.6	0.492
19/12/2024	17:00	1.12	BDL	BDL	BDL	BDL	48.2	88.6	6.1	18.1	0.587
23/12/2024	08:57	1.13	BDL	BDL	BDL	BDL	49.8	90.2	7.4	15.7	0.462
26/12/2024	16:55	1.11	BDL	BDL	BDL	BDL	51.1	92.7	7.9	16.3	0.629
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV :-1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

**Notes:**

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. This test report will not be used for any publicity/legal purpose.
5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-060125-08	06/01/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By	: Lab Representative
Date of Sampling	: 02/12/2024 To 27/12/2024
Sample Description	: Club House on Terrace (Township)
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 28/12/2024 To 06/01/2025
Ambient Average Temperature (°C)	: 25
Average Flow Rate of SPM (m <sup>3</sup> /min.)	: 1.11
Weather Condition	: Cold

Date of Sampling	Time	AFR for RDS (m <sup>3</sup> /m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
02/12/2024	14:50	1.10	BDL	BDL	BDL	BDL	50.5	91.7	7.5	14.2	0.531
05/12/2024	16:45	1.09	BDL	BDL	BDL	BDL	49.1	88.5	6.9	16.7	0.495
09/12/2024	16:45	1.10	BDL	BDL	BDL	BDL	52.7	93.1	8.4	15.0	0.432
12/12/2024	16:35	1.08	BDL	BDL	BDL	BDL	49.4	87.6	6.1	16.9	0.567
16/12/2024	13:35	1.11	BDL	BDL	BDL	BDL	51.1	90.0	7.5	17.2	0.481
19/12/2024	17:10	1.12	BDL	BDL	BDL	BDL	48.5	86.9	5.9	16.7	0.432
23/12/2024	09:10	1.11	BDL	BDL	BDL	BDL	51.0	90.5	7.1	15.3	0.546
26/12/2024	17:10	1.10	BDL	BDL	BDL	BDL	49.7	88.2	6.6	16.1	0.628
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV :-1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

#### Notes:

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5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-050225-07	05/02/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : Lab Representative  
Date of Sampling : 01/01/2025 To 28/01/2025  
Sample Description : Flat No. 101 to 108 on Terrace (Township)  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 06/01/2025 To 05/02/2025  
Ambient Average Temperature (°C) : 24  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.11  
Weather Condition : Cold

Date of Sampling	Time	AFR for RDS (m3/m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
01/01/2025	09:12	1.11	BDL	BDL	BDL	BDL	48.9	82.1	5.9	14.5	0.398
07/01/2025	16:30	1.10	BDL	BDL	BDL	BDL	52.5	89.8	7.4	18.1	0.473
10/01/2025	17:10	1.12	BDL	BDL	BDL	BDL	46.1	80.4	5.1	16.4	0.521
13/01/2025	16:50	1.08	BDL	BDL	BDL	BDL	51.3	90.8	7.5	15.3	0.467
16/01/2025	17:05	1.10	BDL	BDL	BDL	BDL	50.9	87.3	6.3	16.7	0.381
20/01/2025	09:05	1.12	BDL	BDL	BDL	BDL	48.1	83.7	5.8	17.2	0.476
23/01/2025	17:10	1.11	BDL	BDL	BDL	BDL	46.5	81.9	5.1	15.9	0.510
27/01/2025	16:50	1.12	BDL	BDL	BDL	BDL	52.1	91.7	6.7	16.1	0.397
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV -1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

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\*\*\*End of Report\*\*\*

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## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-050225-08	05/02/2025

**Issued To:-**M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
**District:-**Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : Lab Representative  
Date of Sampling : 01/01/2025 To 28/01/2025  
Sample Description : Club House on Terrace (Township)  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 06/01/2025 To 05/02/2025  
Ambient Average Temperature (°C) : 24  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.12  
Weather Condition : Cold

Date of Sampling	Time	AFR for RDS (m <sup>3</sup> /m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
01/01/2025	09:25	1.12	BDL	BDL	BDL	BDL	48.3	86.1	6.1	16.3	0.645
07/01/2025	16:40	1.11	BDL	BDL	BDL	BDL	51.6	89.2	7.7	15.1	0.512
10/01/2025	17:20	1.12	BDL	BDL	BDL	BDL	49.2	87.5	6.3	16.9	0.498
13/01/2025	17:00	1.11	BDL	BDL	BDL	BDL	52.4	91.7	8.2	17.2	0.502
16/01/2025	17:15	1.13	BDL	BDL	BDL	BDL	51.1	88.5	7.6	15.4	0.461
20/01/2025	09:15	1.10	BDL	BDL	BDL	BDL	48.8	85.1	6.4	16.7	0.437
23/01/2025	17:20	1.11	BDL	BDL	BDL	BDL	46.1	83.7	5.2	14.3	0.398
27/01/2025	17:00	1.12	BDL	BDL	BDL	BDL	49.5	87.3	6.0	15.5	0.521
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV -1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

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**\*\*\*End of Report\*\*\***

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**AUTHORIZED SIGNATORY**







## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-060325-07	06/03/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By	: Lab Representative
Date of Sampling	: 03/02/2025 To 28/03/2025
Sample Description	: Flat No. 101 to 108 on Terrace (Township)
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 10/02/2025 To 06/03/2025
Ambient Average Temperature (°C)	: 25
Average Flow Rate of SPM (m <sup>3</sup> /min.)	: 1.12
Weather Condition	: Cold

Date of Sampling	Time	AFR for RDS (m3/m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
03/02/2025	16:50	1.12	BDL	BDL	BDL	BDL	50.3	91.8	6.1	16.1	0.425
06/02/2025	17:10	1.11	BDL	BDL	BDL	BDL	49.8	90.1	5.6	18.3	0.396
10/02/2025	17:00	1.12	BDL	BDL	BDL	BDL	52.1	93.9	7.2	16.8	0.281
13/02/2025	17:15	1.10	BDL	BDL	BDL	BDL	47.9	86.5	5.1	17.2	0.526
17/02/2025	17:10	1.13	BDL	BDL	BDL	BDL	51.5	90.8	6.4	16.7	0.498
20/02/2025	16:40	1.10	BDL	BDL	BDL	BDL	48.0	89.5	5.2	18.3	0.389
25/02/2025	17:10	1.12	BDL	BDL	BDL	BDL	52.6	91.2	7.7	17.9	0.491
27/02/2025	17:10	1.11	BDL	BDL	BDL	BDL	50.1	88.5	6.9	18.0	0.456
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV -1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

#### Notes:-

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\*\*\*End of Report\*\*\*

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# ALKOM SYNERGY PVT LTD



**Laboratory:-** C-212, 2nd & 3rd Floor,  
Sector-10, Noida-201301, U.P.(INDIA)  
Tel.: 0120-4320319 Mob.:+91-8882196187  
Email: info@alkom.in, www.alkomsynergy.com

## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-060325-08	06/03/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By	: Lab Representative
Date of Sampling	: 03/02/2025 To 28/02/2025
Sample Description	: Club House on Terrace (Township)
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 10/02/2025 To 06/03/2025
Ambient Average Temperature (°C)	: 25
Average Flow Rate of SPM (m <sup>3</sup> /min.)	: 1.11
Weather Condition	: Cold

Date of Sampling	Time	AFR for RDS (m <sup>3</sup> /m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
03/02/2025	17:00	1.10	BDL	BDL	BDL	BDL	46.9	84.1	5.5	16.2	0.512
06/02/2025	17:20	1.09	BDL	BDL	BDL	BDL	49.5	88.8	6.4	18.3	0.489
10/02/2025	17:10	1.12	BDL	BDL	BDL	BDL	51.8	90.3	7.7	15.6	0.426
13/02/2025	17:25	1.11	BDL	BDL	BDL	BDL	50.4	89.7	6.0	15.1	0.498
17/02/2025	17:20	1.10	BDL	BDL	BDL	BDL	48.1	86.4	5.1	17.4	0.576
20/02/2025	16:50	1.11	BDL	BDL	BDL	BDL	51.3	90.9	7.2	16.2	0.382
25/02/2025	17:20	1.10	BDL	BDL	BDL	BDL	50.0	87.2	6.5	14.7	0.468
27/02/2025	17:10	1.12	BDL	BDL	BDL	BDL	48.3	86.8	5.4	16.1	0.425
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV -1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

#### Notes:-

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\*\*\*End of Report\*\*\*

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NABL Accredited (Certificate No. TC-9580), ISO 9001, 14001, 45001, and OHSAS 18001 Certified Laboratory  
MOEF & CC (Ministry of Environment Forests & Climate Change) Recognized Laboratory





## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-070425-07	07/04/2025

**Issued To:-**M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
**District:-**Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : Lab Representative  
Date of Sampling : 03/03/2025 To 28/03/2025  
Sample Description : Flat No. 101 to 108 on Terrace (Township)  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 11/03/2025 To 07/04/2025  
Ambient Average Temperature (°C) : 32  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.11  
Weather Condition : Cold

Date of Sampling	Time	AFR for RDS (m3/m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> * µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
03/03/2025	17:10	1.09	BDL	BDL	BDL	BDL	49.1	87.5	6.8	15.2	0.387
06/03/2025	17:15	1.11	BDL	BDL	BDL	BDL	52.5	91.8	8.1	14.9	0.429
10/03/2025	17:00	1.10	BDL	BDL	BDL	BDL	50.7	89.2	7.3	16.4	0.362
13/03/2025	17:10	1.12	BDL	BDL	BDL	BDL	46.4	84.8	5.6	16.0	0.428
17/03/2025	16:40	1.11	BDL	BDL	BDL	BDL	48.8	86.1	5.7	14.2	0.269
20/03/2025	17:10	1.10	BDL	BDL	BDL	BDL	51.2	90.6	7.9	15.8	0.416
24/03/2025	17:00	1.12	BDL	BDL	BDL	BDL	45.7	84.1	5.2	18.1	0.351
27/03/2025	17:10	1.10	BDL	BDL	BDL	BDL	52.9	91.3	7.8	17.4	0.395
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV -1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

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\*\*\*End of Report\*\*\*

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AUTHORIZED SIGNATORY







## TEST REPORT

Test Report of	Report Code	Date of Issue
Ambient Air Quality	AAQ-070425-08	07/04/2025

Issued To:-M/s HPCL-Mittal Energy Limited, Village-Phullakhari, Taluka Talwandi Sabo,  
District:-Bhatinda (Punjab) India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : Lab Representative  
Date of Sampling : 03/03/2025 To 28/03/2025  
Sample Description : Club House on Terrace (Township)  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 11/03/2025 To 07/04/2025  
Ambient Average Temperature (°C) : 32  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.12  
Weather Condition : Cold

Date of Sampling	Time	AFR for RDS (m3/m)	Parameter								
			Ni ng/m <sup>3</sup>	As ng/m <sup>3</sup>	BaP*, ng/m <sup>3</sup>	Pb µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
03/03/2025	17:20	1.12	BDL	BDL	BDL	BDL	48.3	85.8	6.1	16.7	0.726
06/03/2025	17:25	1.10	BDL	BDL	BDL	BDL	50.1	88.5	7.5	15.1	0.521
10/03/2025	17:10	1.11	BDL	BDL	BDL	BDL	49.5	86.2	6.4	16.9	0.497
13/03/2025	17:20	1.13	BDL	BDL	BDL	BDL	47.2	84.9	5.8	14.4	0.365
17/03/2025	16:50	1.11	BDL	BDL	BDL	BDL	52.6	90.2	7.1	16.5	0.451
20/03/2025	17:20	1.12	BDL	BDL	BDL	BDL	49.0	87.6	6.8	16.1	0.397
24/03/2025	17:10	1.10	BDL	BDL	BDL	BDL	47.5	84.1	5.3	15.8	0.426
27/03/2025	17:20	1.12	BDL	BDL	BDL	BDL	49.1	88.3	6.5	14.6	0.358
National Ambient Air Quality Monitoring Standards 2009			20	06	01	01	60	100	80	80	04
Test Method			IS:-5182 (P:-26)	CPCBGV -1:-2012	IS:-5182 (P:-11)	IS:-5182 (P:-22)	IS:-5182 (P:-23)	IS:-5182 (P:-24)	IS:-5182 (P:-2)	IS:-5182 (P:-6)	IS:-5182 (P:-10)

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\*\*\*End of Report\*\*\*

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AUTHORIZED SIGNATORY



## **ANNEXURE-IV**



# PUNJAB POLLUTION CONTROL BOARD

Zonal Office, Power House Road, Street No. 12, Bathinda

Website:- www.ppcb.gov.in



Office Dispatch No : 921  
OCMMS/CTO(Air)/2025/002165

Registered/Speed Post

Date: 19/03/2025

Industry Registration ID: O14BTI2226523

Application No : 28057560

To,

Mr. Sanket Thapar

Bathinda, Bathinda-151301

Subject: Extension in the validity of consent to operate u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for discharge of emissions arising out of premises.

## 1. Particulars of Consent to Operate under Air Act, 1981 granted to the industry

Consent to Operate Certificate No.	CTOA/Renewal/BTI/2025/28057560
Date of issue :	19/03/2025
Date of expiry :	31/03/2028
Certificate Type :	Renewal
Previous CTO No. & Validity :	CTOA/Renewal/BTI/2023/20936924 From: 31/03/2023 To: 31/03/2025

## 2. Particulars of the Industry

Name & Designation of the Applicant	Mr. Sanket Thapar, (Dy. General Manager (operational Excellence))
Address of Industrial premises	Hmel-township, Hpcl Mittal Energy Ltd. (residential Colony), Village Raman & Tarkhanwala, Distt. Bathinda, Talwandi Sabo, Bathinda-151301
Capital Investment of the Industry	91027.0 lakhs
Category of Industry	Red
Type of Industry	Building, Const. projects, Township & Area development ..... covered under EIA notification dated 14/9/06
Scale of the Industry	Large
Office District	Bathinda

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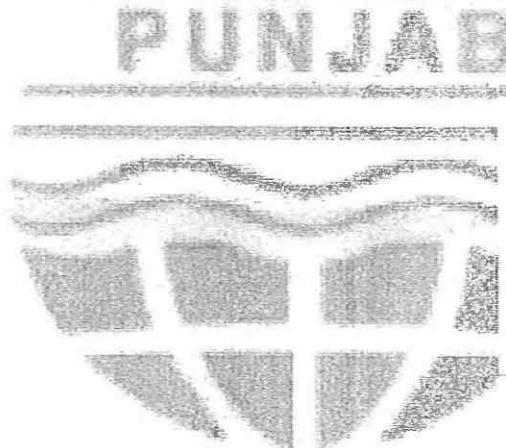
Hmel-township, Hpcl Mittal Energy Ltd. (residential Colony), Village Raman & Tarkhanwala, Distt. Bathinda, Talwandi Sabo, Bathinda, 151301

Page 1

In continuation to Board's letter no. 1126 dt. 31.03.2023, the validity of the 'consent to operate' granted to the residential colony under the provisions of Air Act, 1981 CTOA/Renewal/BTI/2023/20936924 dated 31.03.2023, which is valid upto 31.03.2025, is hereby further extended up to 31.03.2028, subject to the same conditions as mentioned in the original consent along-with following specific conditions:-

1. The project proponent shall provide adequate stack height on the 4 no. DG sets, within 15 days.
2. The project proponent shall ensure the compliance of the conditions imposed in the environmental clearance granted to it under EIA notification dated 2006 on 29.07.2020.
3. The project proponent shall operate the STPs regularly and scientifically and shall maintain proper record of the effluent generated/treated/disposed alongwith adequate disposal arrangements.
4. The township shall ensure segregation of solid waste at source, facilitate collection of segregated waste in separate streams, handover re-cycleable material to either the authorized waste pickers or the authorized recyclers as prescribed in the Solid Waste Management Rules, 2016. The bio-degradable waste shall be processed, treated and disposed of through composting or bio-methanation within the premises as far as possible. The residual waste shall be given to the waste collectors or agency as directed by the local body.
5. The project proponent shall devise the ways & means to minimize the generation of all kind of wastes through REDUCE, REUSE and RECYCLE activities. The generated waste, if any, shall be properly handled and managed as per the provisions of the Municipal Solid Waste Rules 2016 in an environmentally sound manner.
6. The Project proponent (PP) may also develop the vermicomposting/composting to manage the biodegradable solid waste. PP shall not throw, burn or bury any solid wastes in open, outside premises or in drain / water bodies.
7. The Project proponent shall ensure that there are no usages of plastic carry bags and single use plastic / thermocol disposable items such as water bottles / water pouches/water cups, plates, forks, spoons, straw etc. and single use decorating material made of plastic-thermocol or any other non-biodegradable material in the premises.
8. The Project proponent shall perform / promote its Corporate Environment Responsibility (CER) activities as well as use of alternatives of single use plastics (SUP) and awareness to discourage use of plastic (See attached banner/circular). (vi) PP shall carry out awareness and activities for the themes / action points identified under Mission LIFE (Lifestyle for the Environment) by Ministry of Environment, Forests and Climate Change given at the website (<http://missionlife-moefcc.nic.in>).

This letter be remain appended with the original consent granted under the Air Act, 1981 vide no. CTOA/Varied/BTI/2022/16254790 dated 17.01.2022, further extended vide no. CTOA/Renewal/BTI/2022/18015222 dated 13.04.2022 & lastly extended vide no. CTOA/Renewal/BTI/2023/20936924 dated 31.03.2023.



*[Signature]*

19/03/2025

(Ruby Sidhu)  
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

Environmental Engineer, Punjab Pollution Control Board, Regional Office, Bathinda.

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Hmel-township, Hpcl Mittal Energy Ltd. (residential Colony), Village Raman & Tarkhanwala, Distt. Bathinda, Talwandi Sabo, Bathinda, 151301

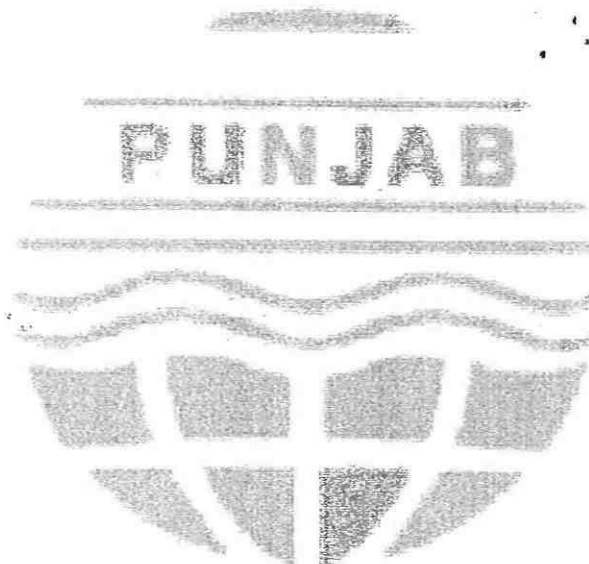
Page 2





19/03/2025

**(Ruby Sidhu)**  
**Environmental Engineer**  
*For & on behalf*  
*of*  
**(Punjab Pollution Control Board)**



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*Hmel-township, Hpcl Mittal Energy Ltd. (residential Colony), Village Raman & Tarkhanwala, Distt. Bathinda, Talwandi Sabo, Bathinda, 151301*

*Page 3*

**PUNJAB POLLUTION CONTROL BOARD**

Zonal Office, Power House Road, Street No. 12, Bathinda

Website:- www.ppcb.gov.in

Office Dispatch No : **919**  
OCMMS/CTO(Water)/2025/002164

Registered/Speed Post

Date: **19/03/2025**

Industry Registration ID:

O14BTI2226523

Application No :

28057568

To,

Sanket Thapar

Bathinda, Bathinda-151301

Subject: Extension in the validity of consent to operate an outlet u/s 25/26 of Water (Prevention &amp; Control of Pollution) Act, 1974 for discharge of effluent.

**1. Particulars of Consent to Operate under Water Act, 1974 granted to the industry**

Consent to Operate Certificate No.	CTOW/Renewal/BTI/2025/28057568
Date of issue :	19/03/2025
Date of expiry :	31/03/2028
Certificate Type :	Renewal
Previous CTO No. & Validity :	CTOW/Renewal/BTI/2023/20936939 From: 31/03/2023 To: 31/03/2025

**2. Particulars of the Industry**

Name & Designation of the Applicant	Mr. Sanket Thapar, (Dy. General Manager (operational Excellence))
Address of Industrial premises	Hmel-township, Hpcl Mittal Energy Ltd. (residential Colony), Village Raman & Tarkhanwala, Distt. Bathinda, Talwandi Sabo, Bathinda-151301
Capital Investment of the Industry	91027.0 lakhs
Category of Industry	Red
Type of Industry	Building, Const. projects, Township & Area development ..... covered under EIA notification dated 14/9/06
Scale of the Industry	Large
Office District	Bathinda

"This is computer generated document from OCMMS by PPCB"

Hmel-township, Hpcl Mittal Energy Ltd. (residential Colony), Village Raman &amp; Tarkhanwala, Distt. Bathinda, Talwandi Sabo, Bathinda, 151301

Page 1

in continuation to Board's letter no. 1124 dt. 31.03.2023, the validity of the 'consent to operate' granted to the residential colony under the provisions of Water Act, 1974 vide no. CTOW/Renewal/BTI/2023/20936939 dt. 31.03.2023, which is valid upto 31.03.2025, is hereby further extended up to 31.03.2028, subject to the same conditions as mentioned in the original consent along-with following specific conditions:-

1. The project proponent shall provide adequate stack height on the 4 no. DG sets, within 15 days.
2. The project proponent shall ensure the compliance of the conditions imposed in the environmental clearance granted to it under EIA notification dated 2006 on 29.07.2020.
3. The project proponent shall operate the STPs regularly and scientifically and shall maintain proper record of the effluent generated/treated/disposed alongwith adequate disposal arrangements.
4. The township shall ensure segregation of solid waste at source, facilitate collection of segregated waste in separate streams, handover re-cycleable material to either the authorized waste pickers or the authorized recyclers as prescribed in the Solid Waste Management Rules, 2016. The bio-degradable waste shall be processed, treated and disposed of through composting or bio-methanation within the premises as far as possible. The residual waste shall be given to the waste collectors or agency as directed by the local body.
5. The project proponent shall devise the ways & means to minimize the generation of all kind of wastes through REDUCE, REUSE and RECYCLE activities. The generated waste, if any, shall be properly handled and managed as per the provisions of the Municipal Solid Waste Rules 2016 in an environmentally sound manner.
6. The Project proponent (PP) may also develop the vermicomposting/composting to manage the biodegradable solid waste. PP shall not throw, burn or bury any solid wastes in open, outside premises or in drain / water bodies.
7. The Project proponent shall ensure that there are no usages of plastic carry bags and single use plastic / thermocol disposable items such as water bottles / water pouches/water cups, plates, forks, spoons, straw etc. and single use decorating material made of plastic-thermocol or any other non-biodegradable material in the premises.
8. The Project proponent shall perform / promote its Corporate Environment Responsibility (CER) activities as well as use of alternatives of single use plastics (SUP) and awareness to discourage use of plastic (See attached banner/circular). (vi) PP shall carry out awareness and activities for the themes / action points identified under Mission LIFE (Lifestyle for the Environment) by Ministry of Environment, Forests and Climate Change given at the website (<http://missionlife-moefcc.nic.in>).

This letter be remain appended with the original consent granted under the Water Act, 1974 vide no. CTOW/varied/BTI/2022/16236468 dated 17.01.2022, further extended vide no. CTOW/Renewal/BTI/2022/18015322 dated 13.04.2022 and lastly extended vide no. CTOW/Renewal/BTI/2023/20936939 dt. 31.03.2023.



19/03/2025

(Ruby Sidhu)  
Environmental Engineer

For & on behalf  
of

(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

Environmental Engineer, Punjab Pollution Control Board, Regional Office, Bathinda.

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Hmel-township, Hpcl Mittal Energy Ltd. (residential Colony), Village Raman & Tarkhanwala, Distt. Bathinda, Talwandi Sabo, Bathinda, 151301



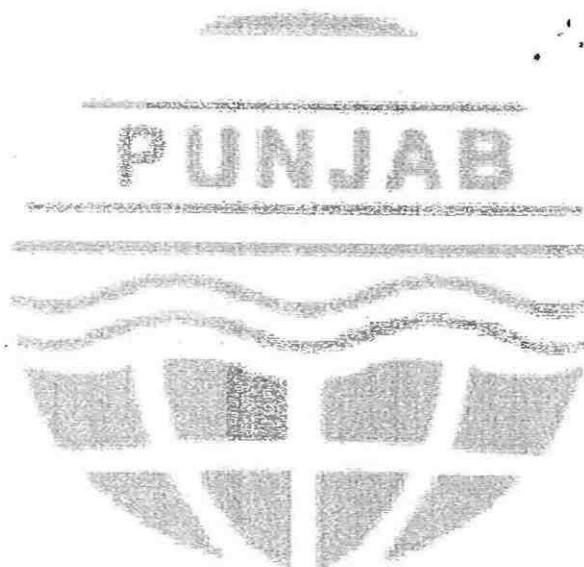
19/03/2025

(Ruby Sidhu)  
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



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Hmel-township, Hpcl Mittal Energy Ltd. (residential Colony), Village Raman & Tarkhanwala, Distt. Bathinda, Talwandi Sabo, Bathinda, 151301

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## **ANNEXURE-V**

**ਪੰਜਾਬ ਸਰਕਾਰ**  
**ਜਲ ਸਰੋਤ ਵਿਭਾਗ**  
**(ਜਲ ਸਰੋਤ ਕਾਰਜ ਸਾਖਾ)**

ਸੇਵਾ ਵਿਖੇ

ਮੁੱਖ ਇੰਜੀਨੀਅਰ/ਨਹਿਰਾਂ,  
 ਜਲ ਸਰੋਤ ਵਿਭਾਗ, ਪੰਜਾਬ,  
 ਚੰਡੀਗੜ੍ਹ।

ਮੀਮੋ ਨੰ: 02/21/2014-ਸਿਕਾ(2)/128-4426//  
 ਮਿਤੀ: ਚੰਡੀਗੜ੍ਹ, 30-7-18

ਵਿਸ਼ਾ:-

HPCL Mittal Energy Ltd ਵੱਲੋਂ ਨਿਊ ਪੈਟਰੋ ਕੈਮੀਕਲ ਪ੍ਰੋਜੈਕਟ ਦੀ ਸਥਾਪਨਾ ਕਰਨ ਲਈ ਸ਼੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਰੀਫਾਈਨਰੀ ਨੂੰ ਪਹਿਲਾ ਦਿੱਤੇ ਜਾ ਰਹੇ 35 ਕਿਊਸਿਕ ਨਹਿਰੀ ਪਾਣੀ ਨੂੰ ਵਧਾ ਕੇ ਹੋਰ ਲੋੜੀਂਦੇ 35 ਕਿਊਸਿਕ ਪਾਣੀ ਸਮੇਤ ਕੁੱਲ 70 ਕਿਊਸਿਕ ਪਾਣੀ ਦੀ ਪ੍ਰਵਾਨਗੀ ਦੇਣ ਬਾਰੇ।

\*\*\*\*\*

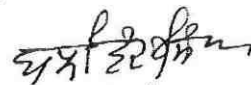
ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਤੇ ਆਪਦੇ ਮੀਮੋ ਨੰ: 2018/ਨਹਿਰਾਂ(6) 9287 ਮਿਤੀ 09/07/2018 ਦੇ ਹਵਾਲੇ ਵਿਚ।

2. ਵਿਸ਼ਾ ਅੰਕਿਤ ਮਾਮਲੇ ਸਬੰਧੀ ਹਵਾਲਾ ਅਧੀਨ ਪੱਤਰ ਨਾਲ ਸਰਕਾਰ ਨੂੰ ਭੇਜੀ ਗਈ ਤਜਵੀਜ਼ ਅਨੁਸਾਰ ਸ਼੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਰੀਫਾਈਨਰੀ ਨੂੰ ਪਹਿਲਾ ਦਿੱਤੇ ਜਾ ਰਹੇ 35 ਕਿਊਸਿਕ ਨਹਿਰੀ ਪਾਣੀ ਨੂੰ ਵਧਾ ਕੇ ਹੋਰ ਲੋੜੀਂਦੇ 35 ਕਿਊਸਿਕ ਪਾਣੀ ਸਮੇਤ ਕੁੱਲ 70 ਕਿਊਸਿਕ ਪਾਣੀ ਦੀ ਪ੍ਰਵਾਨਗੀ ਸਰਕਾਰ ਵਲੋਂ ਨਿਰਧਾਰਤ ਕੀਤੇ ਗਏ ਰੇਟ ਅਤੇ ਹੇਠ ਲਿਖੀਆਂ ਸਰਤਾਂ ਅਨੁਸਾਰ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ:-

- 1) ਇਸ ਸਕੀਮ ਨੂੰ ਲਾਗੂ ਕਰਨ ਦਾ ਖਰਚਾ ਸਬੰਧਤ ਕੰਪਨੀ ਦਾ ਹੋਵੇਗਾ।
- 2) ਪਾਣੀ ਦੀ ਕੀਮਤ ਹਰ ਸਾਲ ਸਡਿਊਲ ਆਫ ਰੇਟ ਦੀਆਂ ਦਰਾਂ ਤੇ ਅਪ੍ਰੈਲ ਮਹੀਨੇ ਦੇ ਪਹਿਲੇ ਹਫ਼ਤੇ ਅਡਵਾਂਸ ਜਮ੍ਹਾਂ ਕਰਵਾਉਣੀ ਹੋਵੇਗੀ। ਇਸ ਤੋਂ ਇਲਾਵਾ ਸਰਕਾਰ ਦੀ ਪਾਲਸੀ ਅਨੁਸਾਰ ਇਸ ਵਿਚ ਹਰ ਸਾਲ 2% ਵਾਧਾ ਵੀ ਕੀਤਾ ਜਾਵੇਗਾ।
- 3) ਪਾਣੀ ਦੀ ਕੀਮਤ ਵੱਧ ਹੋਣ ਤੇ ਉਸ ਤੇ ਵਧੀ ਹੋਈ ਦਰ ਨਾਲ ਸਬੰਧਤ ਸੰਸਥਾ ਨੂੰ ਰਕਮ ਜਮ੍ਹਾਂ ਕਰਵਾਉਣੀ ਹੋਵੇਗੀ।
- 4) ਜੇਕਰ ਪਾਣੀ ਮਿੱਥੇ ਗਏ ਮੰਤਵ ਤੇ ਇਲਾਵਾ ਕਿਸੇ ਹੋਰ ਮੰਤਵ ਲਈ ਵਰਤਿਆ ਗਿਆ ਤਾਂ ਉਸ ਹਾਲਤ ਵਿੱਚ ਪਾਣੀ ਦੀ ਸਪਲਾਈ ਬੰਦ ਕਰ ਦਿੱਤੀ ਜਾਵੇਗੀ।
- 5) ਕਿਸੇ ਵੀ ਕਾਰਨ ਪਾਣੀ ਦੀ ਸਪਲਾਈ ਬੰਦ ਹੋਣ ਨਾਲ ਜਲ ਸਰੋਤ ਵਿਭਾਗ ਕਿਸੇ ਨੁਕਸਾਨ/ਮੁਆਵਜ਼ਾ ਦੇਣ ਲਈ ਜ਼ਿੰਮੇਵਾਰ ਨਹੀਂ ਹੋਵੇਗਾ।

3.  
ਹੈ।

ਇਹ ਪ੍ਰਵਾਨਗੀ ਮਾਨਯੋਗ ਜਲ ਸਰੋਤ ਮੰਤਰੀ ਜੀ ਦੀ ਪ੍ਰਵਾਨਗੀ ਦੇ ਸਨਮੁੱਖ ਜਾਰੀ ਕੀਤੀ ਜਾਂਦੀ ਹੈ।

  
 ਸੁਪਰਡੈਂਟ

Translation

Govt. Of Punjab  
Water Resources dept.  
(Work Branch Water Resources dept.)

To,

Chief Engineer Canal,  
Water Resources Dept.  
Punjab, Chandigarh

Memo no. 021/2014- (2) 1128-4426/1 dated 30.07.2018

Subject: Regarding approval of 35 cusec water already supplied and additional 35 cusec water total 70 cusec water to Guru Gobind Singh Refinery Bathinda for setting up Petrochemical Project

This is reference to your memo no. 2018/canals (6) 9287 dated 09.07.2018 on the above subject

With regard to above subject, the proposal sent by CE, Canal office with the attachment of above referred letter for approval of already supplied 35 cusec water to refinery and additional 35 cusec total 70 cusec water for Refinery. The approval of total 70 cusec water to Guru Gobind Singh Refinery is hereby being granted with the following conditions:-

- 1) The expense for the implementation of this scheme will be borne by company.
- 2) The cost of water will have to deposit in the first week of April in every year in advance. In addition to this, as per Govt. Policy 2 % will be increased every year.
- 3) In case there is change in rate of water, the cost will be deposited as per increased rate.
- 4) The supply will be suspended in case found usage of water supply other than intended purposes.
- 5) If due to any reason, water supplies are stopped, in that case water resources dept. will not be responsible for any reimbursement of any loss.

This approval is being granted by Hon'ble Irrigation Minister, Govt. Of Punjab, Chandigarh

Superintendent

**Water Resources Department, Punjab  
(Head Office), Chandigarh.**

To

**The Superintending Engineer,  
I.B. Circle,  
Patiala.**

Memo No.                      /2018/6-Canals                      Date:                      /2018.

**Subject: -      Project Estimate for Reconstruction of Refinery Minor RD 0 to 38500  
of taking at RD 420035/L of Kotla Branch.**

As per your recommendation, you are hereby authorized to undertake the deposit work of "Supply of additional Canal Water to HPCL Mittal Energy Ltd costing Rs. 616 Lac on behalf of HCL Mittal Energy Ltd on terms and condition of Rule 5.31 subject to Rule 2.110 to 2.113 of Public works Department Code (PWD Code) as per provision in Project Estimate submitted vide your office letter no. 2337-39/296-D(Project) dated 26.10.2018.

Further action to get the work executed may be initiated after getting the funds deposited from HPCL Mittal Energy Ltd and completing all the codel formalities under rules/Government instructions.


-s/-  
**Chief Engineer /Canals,  
Water Resources Dept. Punjab,  
Chandigarh. }**

No 68-70 /6Canal

Date 2.1.2019

Copy of above is forwarded to the following for information & necessary action:-

- 1) A.G Punjab (Audit) Chandigarh
- 2) A.G Punjab(A&E) Chandigarh

  
**Executive Engineer/Canal  
For Chief Engineer /Canals, Water Resources Department  
Chandigarh. }**

CC  
HPCL- Mittal Energy Limited, Village Phulkari, Taluka Talwandi Saboo, Bathinda Punjab.



# Udyog Sahayak

Directorate of Industries Punjab  
17 Bays Bldg. Sector 17, Chandigarh



Tele Fax : 0172-541279  
Telephone : 0172-541285, 541163, 541214  
Telex : 3957-343 USPB IN  
Grams : DINDUSTRY

No. US/CO(2SEB)97/774-0  
Dated 19-9-97

Shri S.P. Gaikwad,  
Senior Manager,  
Punjab Refinery Project,  
Hindustan Petroleum Corporation Ltd,  
UCO Bank Building,  
Sansad Marg, Post Box-255,  
New Delhi.

Subject: Fresh Water Supply.

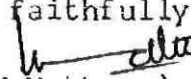
Sir,

Reference your letter dated 11.9.97.

Approval for supply of 20 MGD of fresh water for  
your Refinery Project, being set up in Punjab, district  
Bathinda, is hereby conveyed.

This permission is however, subject to the undertaking  
by the project authorities to bear the cost of augmentation of  
Canal System and would pay water charges as per tariff applicable  
from time to time.

Thanking you,

Yours faithfully,  
  
( V.N. Mathur )  
Chief Coordinator

...

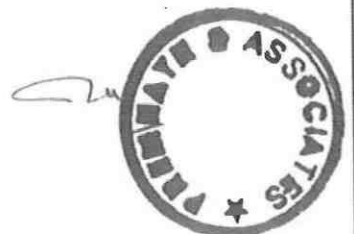
## **ANNEXURE-VI**

## HMEL, Bhatinda

### PECBC

Power requirement for the existing phase is 7085.28 KW and for expansion phase it is 3029.9 KW. Total load requirement is 10115.18 KW. Electricity is sourced from sub-station established at refinery. Power is sourced in refinery from State grid. 7 Nos. of DG sets of capacity 500 kVA are provided for existing phase and 2 nos DG sets of 2500 kVA will be provided for expansion phase for power back-up. Project development will increase the energy demand. Thus it is required to conserve the energy by adopting best management practices and utilizing the energy efficient material and equipment. The conservation efforts would consist of the following:

- Efficient glass with lower SHGC has been installed.
- Air leakage for other fenestration and doors shall not exceed 2.0 l/s-m<sup>2</sup>
- China mosaic on the roofs are to installed ensuring high Solar reflectance.
- VLT of minimum 40% is ensured for glazing to ensure good daylighting
- All Pumps and Lifts are proposed on VFD drive which results in 30% energy saving in consumption. Pumps and motors installed would have minimum 70% and 85% efficiency respectively.
- Project will mandate the use CFC and HCFC free air conditioning systems to limit the emissions of Green House and Ozone Depleting gases. Halon free fire suppression equipment will be used as well.
- To reduce the energy consumption during occupancy, efficient lighting systems (LED based) will be installed. Lighting Power Densities (W/sqft) will be maintained at minimum such that 30% savings is targeted through interior, exterior, common area and parking lights. All non-emergency exterior & common area lighting such as façade, pathways, landscaping, surface and covered parking, street lighting, staircases, lobbies, clubhouse, passages would have day light sensors, occupancy sensors or timer based controls.
- Air conditioning systems with a min BEE 4-star rating or inverter based ACs will be installed.
- Energy meters are to be installed at major energy consuming common areas.



## **ANNEXURE-VII**



[illegible]

## **ANNEXURE-VIII**

# HEALTH, SAFETY, ENVIRONMENT AND QUALITY (HSEQ) POLICY

HPCL-Mittal Energy Limited (HME) and its subsidiaries are committed, as part of its core values, to conduct all its business activities in a socially responsible manner to protect health, well-being and safety of our employees, contractors, the surrounding communities, environment, assets, and exceed stakeholders and customer's expectation. HME espouses active commitment to and accountability for HSEQ from all employees, contractors, and business associates. The line management is entrusted with a leadership role in the communication and implementation of HSEQ policies, standards and ensuring compliance to them.

We are committed to:

- ◇ Integrate HSEQ aspects and sustainable development principles into all our activities.
- ◇ Assess and minimize / eliminate occupational health & safety, process safety and environmental risks from the hazards in our activities with the aim of prevention of injury, ill health, equipment and property damage and environmental harm.
- ◇ Provide safe and healthy working conditions for the prevention of work-related injury and ill health.
- ◇ Develop a culture to achieve our vision of an Incident and Injury Free (IIF) workplace.
- ◇ Educate, train, motivate and empower all employees and contractors to conduct their activities in a safe, environmentally responsible and quality-oriented manner at all the times.
- ◇ Efficient use of energy and resources, minimize & recycle waste and prevention of environmental harm.
- ◇ Work with our suppliers, partners and customers to mutually improve HSEQ performance.
- ◇ Foster openness, dialogue, consultation and participation of all employees, contractors, and stakeholders.
- ◇ Finding opportunities with actions for continual improvement of health, safety, environmental and quality management systems.
- ◇ Ensure HSEQ management systems performance to help achieve the organizational goal of business excellence.
- ◇ Provide quality products that meet or exceed customer requirements.
- ◇ Comply with or exceed all applicable legal and other requirements.
- ◇ Provide adequate resources for full implementation of this policy.
- ◇ Monitor the policy's effectiveness through the setting and reviewing of class-leading HSEQ objectives and targets.



**Prabh Das**  
MD & CEO  
May 03, 2024



## **ANNEXURE-IX**



**CoOrdinator Chd**

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**From:** Environment Team  
**Sent:** 25 November 2024 17:04  
**To:** ecompliance-nro@gov.in  
**Cc:** ron.z.chd-mef@nic.in; 'seezobti@gmail.com'; RO Bathinda; CoOrdinator Chd; Ravi Deshwal; Gohil Ravirajsinh Bharatsinh; Jatinder Kumar1  
**Subject:** Six Monthly EC Compliance Report of HMEL Township from Apr'24 to Sep'24  
**Attachments:** Six Monthly EC compliance report\_Apr'24 to Sep'24.pdf

To,  
**The Director,**  
Ministry of Environment, Forest & Climate Change,  
Northern Regional Office,  
Bays No. 24-25, Sector 31-A,  
Dakshin Marg,  
Chandigarh – 160 030.

**Subject: Six Monthly EC Compliance Report (from Apr'24 to Sep'24) for HMEL Township at Village Raman & Tarakhanwala, Bathinda District, Punjab by HPCL- Mittal Energy Ltd.**

**Ref: Environmental Clearance Letter No: 139/ SEAC(P) / 2010-IA.III, dated 07/10/2010.**  
**Environmental Clearance Letter No: DECC/SEIAA/2020/1845, dated 29/07/2020.**

Respected Sir,

Please find enclosed six monthly EC compliance report (Apr'24 to Sep'24) of HMEL-Township (along with Annexures) on the environmental conditions stipulated by MoEF&CC.

Thanks & Regards,  
Environment Team,  
**HMEL Township**  
**Guru Gobind Singh refinery**  
Bathinda.

Accepted by  
Jatinder  
05/12/24