



Date: 25th June, 2020
Ref: HMEL-TS-40-ENV 755

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: Six Monthly 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 October 7th, 2010.

Dear Sir,

This is with reference to the Environmental Clearance letter No. 139/SEAC(P)/2010-IA.III dated October 7th, 2010 regarding the above mentioned subject.

Please find enclosed "Six Monthly EC compliance report of HMEL-Township for the period Oct'2019 to Mar'2020" as Enclosure-I.

Thanking you,

Very Truly Yours,


Satish Kumar Kalra
(DGM- Technical Services)

Cc: MoEF&CC, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi – 110003, India.
Cc: Punjab Pollution Control Board, 3rd Floor, Room No: 406E, Regional Office, Bathinda.

Encl:-

Enclosure-I: Six Monthly EC Compliance Report - HMEL Township (from Oct'2019 to Mar'2020)


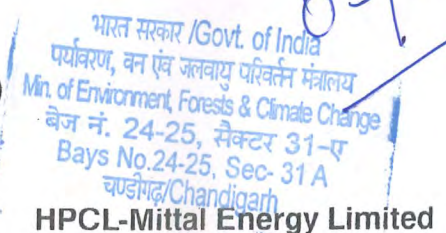
Annexure -I: Copy of CTE

Annexure-II: STP sampling report

Annexure-III: Noise Monitoring Reports (from Oct'2019 to Mar'2020)

Annexure-IV: Ambient Air Quality Reports (from Oct'2019 to Mar'2020)

Annexure-V : Copy of CTO valid from 11.04.2018 to 31.03.2021



भारत सरकार /Govt. of India
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forests & Climate Change
बेज नं. 24-25, सेक्टर 31-ए
Bays No.24-25, Sec- 31 A
चण्डीगढ़/Chandigarh
HPCL-Mittal Energy Limited

ENCLOSURE – I

Six Monthly Compliance Report from Oct'2019 to Mar'2020 for Residential Township at Village Ramsara & Tarkhanwala, Dist. Bathinda, Punjab

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

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

Sr.No	Condition	Compliance Status
PART A: Specific Conditions		
i. Construction Phase		
1	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 stands commissioned and all these conditions had been complied with during construction phase as already submitted with the previous compliance reports.
2	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	
3	A First Aid Room will be provided in the project both during construction and operation of the project.	
4	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.	
5	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.	
6	All the labourers to be engaged for construction should be screened for health and adequately treated before engaging them to work at the site.	
7	For disinfection of waste water, use ultra violet radiation, not chlorination.	
8	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	

9	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 stands commissioned and all these conditions had been complied with during construction phase as already submitted with the previous compliance reports.
10	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.	
11	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.	
12	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to E(P) Rules prescribed for air and noise emission standards.	
13	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.	
14	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.	
15	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.	
16	Ready mixed concrete must be used in building construction.	
17	Storm water control and its re-use as per CGWB and BIS standards for various applications.	
18	Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices referred.	
19	Permission to draw ground water should be obtained from the competent Authority prior to construction/operation of the project.	
20	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	

21	Treatment of 100% grey water by decentralised treatment should be done.	The project stands commissioned and all these conditions had been complied with during construction phase as already submitted with the previous compliance reports.
22	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.	
23	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.	
24	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	
25	Adequate measures to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.	
26	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.	
27	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.	
28	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.	
ii. Operation Phase		
1	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.	This condition is complied with. The Sewage Treatment Plant (STP) of Phase-2 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 MOEFCC, Chandigarh vide letter no. HMEL-TS-40-ENV-592 dated 17.01.19. 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 report is attached as Annexure II .
2	The car washing in the complex/ multiples should not be allowed.	Car washing is not permitted within the township. Hence, this condition is complied with.
3	Adequate & appropriate pollution control measures should be provided to control fugitive emissions to be emitted from the shopping and multiplex.	This condition is complied with. 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.
4	Adequate drinking water facility based on the Reverse Osmosis treatment technology to be provided.	This condition is complied with. The raw water is treated at central treatment facility at refinery and disinfected by chlorine dosing at refinery. In the township, sodium hypochlorite dosing facility is provided for disinfection to maintain the required FRC. The treated water after disinfection is fit for drinking, however RO is provided in each house as second step treatment.
5	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.	This condition is complied with. Rain water harvesting for roof-runoff and surface run-off, has been implemented. There are sedimentation pits before the recharge well for settlement of suspended matter. The complete system is designed such that there is no possibility of entry of any oil & grease. Moreover, no car washing is allowed at township. Further the chambers are cleaned prior to rainy season on regular basis for removing the accumulated dust. 120 pits have been provided in township for recharging the ground water.
6	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.	This condition is complied with. Organic waste facility (capacity: 350kg/hr.) has been installed at HMEL-Township for composting organic waste. Non-biodegradable component of domestic waste is disposed off to the PPCB approved agency namely M/s JITF (M/s. Urban Waste Management Bathinda Ltd.).
7	Any hazardous waste including bio medical waste should be disposed of as per applicable rules & norms with necessary approvals of Punjab Pollution Control Board.	This condition is complied with. Bio-medical waste generated in the OHC is disposed to M/s Medicare (PPCB approved) as per Bio-Medical Waste Rules.
8	The green belt design along the periphery of the plot shall achieve attenuation factor	This condition is complied with. Green belt along the periphery of the plot is

	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.	developed. Noise levels of day (53.8 dBA – 51.1 dbA) and night (43.7 dBA – 40.5 dBA) for the period Oct'2019 to Mar'2020 are conforming to standards prescribed for residential land use. The noise level monitoring reports are enclosed as Annexure-III . The open spaces inside the plot are landscaped and covered with vegetation of indigenous variety.
9	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.	This condition is complied with. Adequate mitigation measures (like covering of 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. About 25.21 % of the total land area (more than 13000 trees) of township has been developed for landscaping and tree plantation. The ambient air quality for the period of Oct'2019 to Mat'2020 is attached as Annexure-VI .
10	Increment pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.	This condition is complied with. Ambient air quality, noise and water quality are periodically monitored after commissioning of the project and the incremental pollution load on the ambient air is minimal.
11	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.	This condition is complied with. Solar panels are installed at Township for powering security fence.
12	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.	This condition is complied with. HMEI security is placed at the entry and exit points of the township to ensure that there is no traffic congestion at the main road. Moreover, the township road connecting the main road is 20m wide. Parking is fully internalised and has been provided in the stilt floor of apartment buildings and no public space is utilized.
13	A report on the energy conservation measures conforming 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.	This condition is complied with. Energy Compliance Report for HMEI-Township on energy conservation measures has been submitted to Ministry's Regional Office via our letter no. HMEI-TS-40-ENV 55 dated 25.01.2013. Subsequently, a letter on the energy

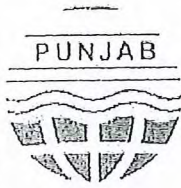
		conservation measure was submitted to RO, MoEF&CC on dated 05.12.2018.
14	Ozone depleting substance (regulation & control) Rules should be followed while designing the air conditioning system of the project.	This condition is complied with. There are no such equipment installed in township which utilises ozone depleting substances. 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 ODS.
15	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 Deputy General Manager (Environment) looks after the Environmental Management and monitoring functions of the township.
PART-B GENERAL CONDITIONS		
i	Six Monthly Monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh.	This condition is being complied with. Six monthly Monitoring reports are being submitted to Ministry and its Regional Office, Chandigarh. Last six monthly compliance report submitted to Regional Office, Chandigarh vide letter no. HMEL-TS-40-ENV 694, dated 16 th Dec'2019.
4	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 is noted and complied with.
5	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.
6	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.

7	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.	Not Applicable
8	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.	This condition is complied with. The company has not received any suggestions/representations while processing the proposal. The copy of the township environmental clearance has also been uploaded on Company's website vide the link mentioned below: http://www.hmel.in/sites/default/files/disclosures-report/Environmental Clearance HMEL-Township.pdf
9	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 http://envfor.nic.in . The advertisement should be made within 7 days from the day of issue of clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Chandigarh.	This condition is complied with. An advertisement in leading newspaper was published in Punjabi News Paper, Desh Sevak dated 27.10.2010 and English News Paper, The Indian Express dated 28.10.2010 informing that the project has been accorded environmental clearance. A letter informing about grant of EC clearance was submitted to MoEF, RO, Chandigarh vide our letter no. HMEL/Env/TS/VS/001 dated 29.11.2010.
10	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.
11	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 after obtaining Environmental Clearance from MoEF&CC and Consent to Establish from PPCB.
12	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	This condition is being complied with. Six Monthly Compliance report and monitoring reports are being submitted to the regional/zonal offices of MoEF&CC, CPCB and

	copies as well as by e-mail) to the respective regional office of MoEF, the respective office of CPCB and the SPCB.	PPCB. Last six monthly compliance report submitted to MoEF&CC, CPCB and PPCB vide letter no. HMEL-TS-40-ENV 694, dated 16 th Dec' 2019.
13	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.	Noted.
14	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.	Noted this condition.

Annexure-I

Copy of CTE



PUNJAB POLLUTION CONTROL BOARD

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

Website:- www.ppcb.gov.in

Office Dispatch No : 2819

Registered/Speed Post

Date: 24/4/19

Industry Registration ID: O14BTI2226523

Application No : 9470551

To,

Krishan Tuteja

Bathinda, Bathinda-151301

Subject: Grant of 'Consent to Establish'(NOC) for Expansion of an existing industrial unit u/s 25 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981.

With reference to your application for obtaining 'Consent to Establish'(NOC) for Expansion of an existing industrial plant u/s 25 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are, hereby, permitted to expand the existing industrial unit to discharge the effluent(s) & emission(s) arising out of your premises subject to the Terms and Conditions as specified in this Certificate.

1. Particulars of Consent to Establish (NOC) for Expansion granted to the Industry

Certificate No.	CTE/Exp/BTI/2019/9470551
Date of issue :	24/04/2019
Date of expiry :	23/04/2022
Certificate Type :	Expansion
Previous CTE/CTO No. & Validity :	CTOW/Renewal/BTI/2018/7223810 From:18/04/2018 To:31/03/2021

2. Particulars of the Industry

Name & Designation of the Applicant	Mr. Satish Kumar Kalra, (Dy. Gen. Manager (Technical Services))
Address of Industrial premises	Hmel-township, Hpcl mittal energy ltd.(residential colony), village raman & tarkhanwala, distt. bathinda, Talwandi sabo, Bathinda-151301
Existing Capital investment of the industry	25159.47 lakhs
Capital investment for Expansion Project	25600.0 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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Consent Fee Details	Rs. 8,46,059 vide RTGS UTR, no. SBINR52019020200058933 dated 2/02/2019
Raw Materials (Name with quantity per day)	Residential Colony in 147.66 acres
Products (Name with quantity per day)	EXISTING: Dwelling units, guest house and hostel block - 983 units PROPOSED:- Dwelling units, guest house and hostel block - 609 units TOTAL: Dwelling units, guest house and hostel block - 1592 units
By-Products, if any,(Name with quantity per day)	---
Details of the machinery and processes	Development of residential colony in 147.66
Details of the Effluent Treatment Plant	EXISTING: The project proponent has installed 2 STPs with components - Screen chamber - oil & grease tank - Collection/ equalization tank - aeration (FBR) - tube settler - multi grade filter active carbon filter - softener - ozonation sludge press PROPOSED:- One additional STP based on MBBR technology
Mode of Disposal of Effluent	Trade effluent - N.A. Domestic effluent @ 824 KLD - discharged partially to reuse for flushing & remaining onto land for plantation after treatment in STPs.
Standards to be achieved under Water (Prevention & Control of Pollution) Act, 1974	As prescribed by the PPCB/CPCB/MOEF&CC.
Sources of emissions and type of pollutants	EXISTING: 7 DG sets of capacity 500 KVA each PROPOSED: 2 DG sets of capacity 2500 KVA each.
Mode of disposal of emissions with stack height	Adequate height of stack above RL with DG sets
Quantity of fuel required in TPD	HSD @ 212 ltr/day for DG sets of capacity 500 KVA & HSD @ 1000 ltr/day for DG sets of capacity 2500 KVA each.
Type of Air Pollution Control Devices to be installed	Canopies for control of noise of DG sets.
Standars to be achieved under Air (Prevention & Control of Pollution) Act, 1981	As prescribed by the PPCB/CPCB/MOEF&CC.

V. Indrajit

24/04/2019

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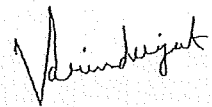
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(Varinderjeet Singh)
Assistant Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

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



24/04/2019

(Varinderjeet Singh)
Assistant Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

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A. GENERAL CONDITIONS

1. The industry shall apply for consent of the Board as required under the provision of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 & Authorization under Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016, two months before the commissioning of the industry.
2. The industry shall provide adequate arrangements for fighting the accidental leakages/ discharge of any air pollutant/gas/liquids from the vessels, mechanical equipments etc. which are likely to cause environmental pollution.
3. The Industry shall apply for further extension in the validity of the CTE atleast two months before the expiry of this CTE, if applicable.
4. The industry shall comply with any other conditions laid down or directions issued by the Board under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 from time to time.
5. The project has been approved by the Board from pollution angle and the industry shall obtain the approval of site from other concerned departments, if need be.
6. The industry shall get its building plans approved under the provisions of section 3-A of Punjab Factory Rules, 1952.
7. The industry shall put up display board indicating the Environment data in the prescribed format at the main entrance gate.
8. The industry shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets.

Specifications of the port-holes shall be as under:-

- i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter (De) shall be calculated from the following equation to determine upstream, downstream distance:-

$$De = 2 LW / (L+W)$$

Where L= length in mts. W= Width in mts.
 - ii) The sampling port shall be 7 to 10 cm in diameter
9. The industry shall discharge all gases through a stack of minimum height as specified in the following standards laid down by the Board.

(i) Stack height for boiler plants

S.NO.	Boiler with Steam Generating Capacity	Stack heights
1.	Less than 2 ton/hr.	9 meters or 2.5 times the height of neighboring building whichever is more
2.	More than 2 ton/hr. to 5 ton/hr.	12 meters
3.	More than 5 ton/hr. to 10 ton/hr.	15 meters
4.	More than 10 ton/hr. to 15 ton/hr.	18 meters
5.	More than 15 ton/hr. to 20 ton/hr.	21 meters
6.	More than 20 ton/hr. to 25 ton/hr.	24 meters
7.	More than 25 ton/hr. to 30 ton/hr.	27 meters
8.	More than 30 ton/hr.	30 meters or using the formula $H = 14 Qg^{0.3}$ $H = 74 (Qp)^{0.24}$ Where Qg = Quantity of SO ₂ in Kg/hr. Qp = Quantity of particulate matter in Ton/day.

Note : Minimum Stack height in all cases shall be 9.0 mtr. or as calculated from relevant formula whichever is more.

(ii) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation.

(iii) Stack height for diesel generating sets:

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Capacity of diesel generating set	Height of the Stack	
0-50 KVA	Height of the building	+ 1.5 mt
50-100 KVA	-do-	+ 2.0 mt.
100-150 KVA	-do-	+ 2.5 mt.
150-200 KVA	-do-	+ 3.0 mt.
200-250 KVA	-do-	+ 3.5 mt.
250-300 KVA	-do-	+ 3.5 mt.

For higher KVA rating stack height H (in meter) shall be worked out according to the formula:

$$H = h + 0.2 (KVA) 0.5$$

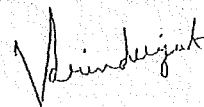
where h height of the building in meters where the generator set is installed.

10. The industry shall put up canopy on its DG sets and also provide stack of adequate height as per norms prescribed by the Board and shall ensure the compliance of instructions issued by the Board vide office order no. Admin./SA-2/F.No.783/2011/448 dated 8/6/2010.
11. The industry shall put up canopy on its DG sets and also provide stack of adequate height as per norms prescribed by the Board and shall ensure the compliance of instructions issued by the Board vide office order no. Admin./SA-2/F.No.783/2011/448 dated 8/6/2010.
 - (i) Once in Year for Small Scale Industries.
 - (ii) Four in a Year for Large/Medium Scale Industries.
 - (iii) The industry will submit monthly reading/ data of the separate energy meter installed for running of effluent treatment plant/re-circulation system to the concerned Regional Office of the Board by the 5th of the following month.
12. The industry shall provide flow meters at the source of water supply, at the outlet of effluent treatment plant and shall maintain the record of the daily reading and submit the same to the concerned Regional Office by the 5th day of the following month.
13. The industry shall make necessary arrangements for the monitoring of stack emissions and shall get its emissions analyzed from lab approved / authorized by the Board:-
 - (i) Once in Year for Small Scale Industries.
 - (ii) Twice/thrice/four time in a Year for Large/Medium Scale Industries.
14. The pollution control devices shall be interlocked with the manufacturing process of the industry.
15. The Board reserves the right to revoke this "consent to establish" (NOC) at any time, in case the industry is found violating any of the conditions of this "consent to establish" and/or the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.
16. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per acre along the boundary of the industrial premises.
17. The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.
18. The consent does not authorize or approve the construction of any physical structures or facilities for undertaking of any work in any natural watercourse.
19. Nothing in this NOC shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected under this or any other Act.
20. The diversion or bye pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this consent is prohibited except.
 - (i) Where unavoidable to prevent loss of life or some property damage or
 - (ii) Where excessive storm drainage or run off would damage facilities necessary for compliance with terms and conditions of this consent. The applicant shall immediately notify the consent issuing authority in writing of each such diversion or bye-pass.
21. The industry shall ensure that no water pollution problem is created in the area due to discharge of effluents from its industrial premises.

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22. The industry shall comply with the conditions imposed if any by the SEIAA/MOEF in the Environmental Clearance granted to it as required under EIA notification dated 14/9/06, if applicable.
23. The industry shall earmark a land within their premises for disposal of boiler ash in an environmentally sound manner, and / or the industry shall make necessary arrangements for proper disposal of fuel ash in a scientific manner and shall maintain proper record for the same, if applicable.
24. The industry shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.
25. The industry shall submit a site emergency plan approved by the Chief Inspector of Factories, Punjab as applicable.
26. The industry shall provide proper and adequate air pollution control arrangements for control emission from its coal/fuel handling area, if applicable.
27. The Industry shall comply with the code of practice as notified by the Government / Board for the type of Industries where the siting guidelines / code of practice have been notified
28. Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed off in such a manner so as to prevent any pollutants from such materials from entering into natural water.
29. The industry shall submit a detailed plan showing therein, the distribution system for conveying waste-waters for application on land for irrigation along with the crop pattern to be adopted throughout the year.
30. The industry shall not irrigate the vegetable crops with the treated effluents which are used, consumed as raw.
31. The industry shall ensure that its production capacity & quantity of trade effluent do not exceed the quantity mentioned in the NOC and shall not carry out any expansion without the prior permission NOC of the Board.
32. All amendments/revisions made by the Board in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.
33. The industry shall not cause any nuisance/traffic hazard in vicinity of the area.
34. The industry shall maintain the following record to the satisfaction of the Board :-
 - (i) Log books for running of air pollution control devices or pumps/motors used for it.
 - (ii) Register showing the result of various tests conducted by the industry for monitoring of stack emissions and ambient air.
 - (iii) Register showing the stock of absorbents and other chemicals to be used for scrubbers.
35. The industry shall ensure that there will not be significant visible dust emissions beyond the property line.
36. The industry shall establish sufficient number of piezometer wells in consultation with the concerned Regional Office, of the Board to monitor the impact on the Ground Water Quantity due to the industrial operations, if applicable.
37. The industry shall provide adequate and appropriate air pollution control devices to contain emissions from handling, transportation and processing of raw material & product of the industry



24/04/2019

(Varinderjeet Singh)
Assistant Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

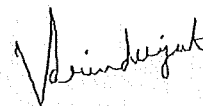
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Page 6

B. SPECIAL CONDITIONS

1. The Township will provide stacks of adequate height to each DG set within one month.
2. The township will develop its organic waste composters on priority within six months and shall obtain the NOC of the Board for the same.
3. The project proponent shall submit the Environmental Clearance for the expansion project to the Board.
4. This NOC shall be subject to the grant of Environmental Clearance to the project proponent for the proposed expansion and the conditions imposed therein.



24/04/2019

(Varinderjeet Singh)
Assistant Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

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Annexure-II

STP Sampling Reports

TEST REPORT

Issued to: HPCL-Mittal Energy Limited

Village Phullokhari, Taluka Talwandi Sabo
Distt Rhatinda Punjab India

Job Booking No.: NL/100001591

Test Report Date: 07/11/2019

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 2.0 Liter, Pet Bottle
Test Started on : 01/11/2019
Test Completed : 06/11/2019
Method of Sampling : SOP/B/D-3
Date of Sampling : 31/10/2019
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-3: STP Outlet, Inside Township Phase-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W3		
1	pH	-	7.76	6.5 to 9.0	IS-3025 (P-11)
2	Temperature	°C	29.9	-	IS-3025 (P-9)
3	TSS	mg/l	9.2	≤10mg/l	IS-3025 (P-17)
4	COD	mg/l	42	≤50mg/l	IS-3025 (P-58)
5	BOD	mg/l	6.0	≤10mg/l	IS-3025 (P-44)
6	O & G	mg/l	ND	≤5mg/l	IS-3025 (P-39)
7	Ammonical Nitrogen as N	mg/l	1.95	≤5mg/l	IS:3025 (P-34)
8	N-total	mg/l	4.32	≤10mg/l	IS:3025 (P-34)
9	PO4-P	mg/l	0.96	≤2mg/l	IS:3025 (P-31)
10	Total coliform Count	MPN/100ml	97	≤230/100mg/l	IS: 1622


(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt.Bhatinda, Punjab, India

Job Booking No.: NL/100001592
Test Report Date: 07/11/2019

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 2.0 Liter, Pet Bottle
Test Started on : 01/11/2019
Test Completed : 06/11/2019
Method of Sampling : SOP/B/D-3
Date of Sampling : 31/10/2019
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-4: STP Outlet, Inside Township Phase-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W4		
1	pH	-	7.62	6.5 to 9.0	IS-3025 (P-11)
2	Temperature	°C	29.3	-	IS-3025 (P-9)
3	TSS	mg/l	10.2	≤10mg/l	IS-3025 (P-17)
4	COD	mg/l	49	≤50mg/l	IS-3025 (P-58)
5	BOD	mg/l	10	≤10mg/l	IS-3025 (P-44)
6	O & G	mg/l	ND	5.0 mg/l	IS-3025 (P-39)
7	Ammonical Nitrogen as N	mg/l	1.72	≤5mg/l	IS:3025 (P-34)
8	N-total	mg/l	3.88	≤10mg/l	IS:3025 (P-34)
9	PO4-P	mg/l	0.68	≤2mg/l	IS:3025 (P-31)
10	Total coliform Count	MPN/100ml	97	≤230/100mg/l	IS: 1622



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TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phulokhari, TalukaTalwandi Sabo
Distt.Bhatinda, Punjab, India

Ref. No.: NL/100001780
Test Report Date: 11/12/2019

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 2.0 Litre, Pet Bottle
Test Started on : 02/12/2019
Test Completed : 10/12/2019
Method of Sampling : SOP/B/D-3
Date of Sampling : 29/11/2019
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-3: STP Outlet, Inside Township Phase-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W3		
1	pH	-	7.51	6.5 to 9.0	IS-3025 (P-11)
2	Temperature	°C	32.1	-	IS-3025 (P-9)
3	TSS	mg/l	6.4	≤10mg/l	IS-3025 (P-17)
4	COD	mg/l	40	≤50mg/l	IS-3025 (P-58)
5	BOD	mg/l	4.8	≤10mg/l	IS-3025 (P-44)
6	O & G	mg/l	ND	≤5mg/l	IS-3025 (P-39)
7	Ammonical Nitrogen as N	mg/l	1.68	≤5mg/l	IS:3025 (P-34)
8	N-total	mg/l	5.26	≤10mg/l	IS:3025 (P-34)
9	PO4-P	mg/l	0.24	≤2mg/l	IS:3025 (P-31)
10	Total coliform Count	MPN/100ml	97	≤230/100mg/l	IS: 1622

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+91-129-2241021

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TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Ref. No.: NL/100001781
Test Report Date: 11/12/2019

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 2.0 Liter, Pet Bottle
Test Started on : 02/12/2019
Test Completed : 10/12/2019
Method of Sampling : SOP/B/D-3
Date of Sampling : 29/11/2019
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-4: STP Outlet, Inside Township Phase-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W4		
1	pH	-	7.38	6.5 to 9.0	IS-3025 (P-11)
2	Temperature	°C	33.3	-	IS-3025 (P-9)
3	TSS	mg/l	5.4	≤10mg/l	IS-3025 (P-17)
4	COD	mg/l	42	≤50mg/l	IS-3025 (P-58)
5	BOD	mg/l	6.8	≤10mg/l	IS-3025 (P-44)
6	O & G	mg/l	ND	5.0 mg/l	IS-3025 (P-39)
7	Ammonical Nitrogen as N	mg/l	1.34	≤5mg/l	IS:3025 (P-34)
8	N-total	mg/l	4.27	≤10mg/l	IS:3025 (P-34)
9	PO4-P	mg/l	0.22	≤2mg/l	IS:3025 (P-31)
10	Total coliform Count	MPN/100ml	98	≤230/100mg/l	IS: 1622

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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, TalukaTatwandi Sabo
Distt.Bhatinda, Punjab, India

Ref. No.: NL/100002127
Test Report Date: 06/01/2020

Sample Particulars:

Nature of the Sample : STP Outlet Township
Sample Quantity & Packaging : 2.0 Litre, Pet Bottle
Started on : 29/12/2019
Test Completed : 05/01/2020
Method of Sampling : SOP/B/D-3
Date of Sampling : 27/12/2019
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-3: STP Outlet, Inside Township Phase-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W3		
1	pH	-	7.48	6.5 to 9.0	IS:3025 (P-11)
2	Temperature	°C	28.5	-	IS:3025 (P-9)
3	TSS	mg/l	4.8	≤10mg/l	IS:3025 (P-17)
4	COD	mg/l	46	≤50mg/l	IS:3025 (P-58)
5	BOD	mg/l	4.4	≤10mg/l	IS:3025 (P-44)
6	O & G	mg/l	ND	≤5mg/l	IS:3025 (P-39)
7	Ammonical Nitrogen as N*	mg/l	1.41	≤5mg/l	IS:3025 (P-34)
8	N-total*	mg/l	5.86	≤10mg/l	IS:3025 (P-34)
9	PO4-P*	mg/l	0.14	≤2mg/l	IS:3025 (P-31)
10	Total coliform Count	MPN/100ml	96	≤230/100mg/l	IS: 1622

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(Signature)
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+91-129-2241021

+91-9013591021, +91-9013552273

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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phulokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Ref. No.: NL/100002128
Test Report Date: 06/01/2020

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 2.0 Liter, Pet Bottle
Test Started on : 29/12/2019
Test Completed : 05/01/2020
Method of Sampling : SOP/B/D-3
Date of Sampling : 27/12/2019
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-4: STP Outlet. Inside Township Phase-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W4		
1	pH	-	7.51	6.5 to 9.0	IS:3025 (P-11)
2	Temperature	°C	28.6	-	IS:3025 (P-9)
3	TSS	mg/l	6.4	≤10mg/l	IS:3025 (P-17)
4	COD	mg/l	44	≤50mg/l	IS:3025 (P-58)
5	BOD	mg/l	4.2	≤10mg/l	IS:3025 (P-44)
6	O & G	mg/l	ND	5.0 mg/l	IS:3025 (P-39)
7	Ammonical Nitrogen as N*	mg/l	1.24	≤5mg/l	IS:3025 (P-34)
8	N-total*	mg/l	4.67	≤10mg/l	IS:3025 (P-34)
9	PO4-P*	mg/l	0.41	≤2mg/l	IS:3025 (P-31)
10	Total Coliform Count	MPN/100ml	97	≤230/100mg/l	IS: 1622

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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Ref. No.: NL/100002566
Test Report Date: 08/02/2020

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 2.0 Litre, Pet Bottle
Test Started on : 30/01/2020
Test Completed : 07/02/2020
Method of Sampling : SOP/B/D-3
Date of Sampling : 29/01/2020
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-3: STP Outlet, Inside Township Phase-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W3		
1	pH	-	7.32	6.5 to 9.0	IS:3025 (P-11)
2	Temperature	°C	26.5	-	IS:3025 (P-9)
3	TSS	mg/l	5.2	≤10mg/l	IS:3025 (P-17)
4	COD	mg/l	45	≤50mg/l	IS:3025 (P-58)
5	BOD	mg/l	4.1	≤10mg/l	IS:3025 (P-44)
6	O & G	mg/l	BDL	≤5mg/l	IS:3025 (P-39)
7	Ammonical Nitrogen as N*	mg/l	1.39	≤5mg/l	IS:3025 (P-34)
8	N-total*	mg/l	4.98	≤10mg/l	IS:3025 (P-34)
9	PO4-P*	mg/l	0.19	≤2mg/l	IS:3025 (P-31)
10	Total coliform Count	MPN/100ml	122	≤230/100mg/l	IS: 1622


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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Ref. No.: NL/100002567
Test Report Date: 08/02/2020

Sample Particulars:

Nature of the Sample : STP Outlet Township
Sample Quantity & Packaging : 2.0 Liter, Pet Bottle
Test Started on : 30/01/2020
Test Completed : 07/02/2020
Method of Sampling : SOP/B/D-3
Date of Sampling : 29/01/2020
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-4: STP Outlet, Inside Township Phase-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W4		
1	pH	-	7.40	6.5 to 9.0	IS:3025 (P-11)
2	Temperature	°C	25.6	-	IS:3025 (P-9)
3	TSS	mg/l	7.8	≤10mg/l	IS:3025 (P-17)
4	COD	mg/l	41	≤50mg/l	IS:3025 (P-58)
5	BOD	mg/l	3.9	≤10mg/l	IS:3025 (P-44)
6	O & G	mg/l	BDL	5.0 mg/l	IS:3025 (P-39)
7	Ammonical Nitrogen as N*	mg/l	1.21	≤5mg/l	IS:3025 (P-34)
8	N-total*	mg/l	5.93	≤10mg/l	IS:3025 (P-34)
9	PO4-P*	mg/l	0.37	≤2mg/l	IS:3025 (P-31)
10	Total Coliform Count	MPN/100ml	80	≤230/100mg/l	IS: 1622

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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Report No.: NL/100003024
Test Report Date: 09/03/2020

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 1.0 Litre, Pet Bottle
Started on : 02/03/2020
Test Completed : 07/03/2020
Method of Sampling : SOP/B/D-3
Date of Sampling : 29/02/2020
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-3: STP Outlet, Inside Township Phase-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W3		
1	pH	-	7.25	6.5 to 9.0	IS:3025 (P-11)
2	Temperature	°C	25.3	-	IS:3025 (P-9)
3	TSS	mg/l	5.9	≤10mg/l	IS:3025 (P-17)
4	COD	mg/l	48	≤50mg/l	IS:3025 (P-58)
5	BOD	mg/l	3.9	≤10mg/l	IS:3025 (P-44)
6	O & G	mg/l	BDL	≤5mg/l	IS:3025 (P-39)
7	Ammonical Nitrogen as N*	mg/l	2.18	≤5mg/l	IS:3025 (P-34)
8	N-total*	mg/l	4.02	≤10mg/l	IS:3025 (P-34)
9	PO4-P*	mg/l	0.27	≤2mg/l	IS:3025 (P-31)
10	Total coliform Count	MPN/100ml	120	≤230/100mg/l	IS: 1622



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Report No.: NL/100003025
Test Report Date: 09/03/2020

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle
Started on : 02/03/2020
Test Completed : 07/03/2020
Method of Sampling : SOP/B/D-3
Date of Sampling : 29/02/2020
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-4: STP Outlet, Inside Township Phase-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W4		
1	pH	-	7.38	6.5 to 9.0	IS:3025 (P-11)
2	Temperature	°C	25.1	-	IS:3025 (P-9)
3	TSS	mg/l	7.6	≤10mg/l	IS:3025 (P-17)
4	COD	mg/l	43	≤50mg/l	IS:3025 (P-58)
5	BOD	mg/l	4.1	≤10mg/l	IS:3025 (P-44)
6	O & G	mg/l	BDL	5.0 mg/l	IS:3025 (P-39)
7	Ammonical Nitrogen as N*	mg/l	1.34	≤5mg/l	IS:3025 (P-34)
8	N-total*	mg/l	6.91	≤10mg/l	IS:3025 (P-34)
9	PO4-P*	mg/l	0.41	≤2mg/l	IS:3025 (P-31)
10	Total Coliform Count	MPN/100ml	82	≤230/100mg/l	IS: 1622

(AUTHORISED SIGNATORY)

(RAVINDER MITAL)

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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phulokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Report No.: NL/10003669
Test Report Date: 14/05/2020

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 2.0 Litre, Pet Bottle
Test Started on : 07/05/2020
Test Completed : 13/05/2020
Method of Sampling : SOP/B/D-3
Date of Sampling : 31/03/2020
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-3: STP Outlet, Inside Township Phase-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W3		
1	pH	-	7.81	6.5 to 9.0	IS:3025 (P-11)
2	Temperature	°C	29.8	-	IS:3025 (P-9)
3	TSS	mg/l	8.3	≤10mg/l	IS:3025 (P-17)
4	COD	mg/l	47.1	≤50mg/l	IS:3025 (P-58)
5	BOD	mg/l	6.8	≤10mg/l	IS:3025 (P-44)
6	O & G	mg/l	BDL	≤5mg/l	IS:3025 (P-39)
7	Ammonical Nitrogen as N*	mg/l	4.29	≤5mg/l	IS:3025 (P-34)
8	N-total*	mg/l	8.39	≤10mg/l	IS:3025 (P-34)
9	PO4-P*	mg/l	1.27	≤2mg/l	IS:3025 (P-31)



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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Report No.: NL/10003670
Test Report Date: 14/05/2020

Sample Particulars:

Nature of the Sample : **STP Outlet Township**
Sample Quantity & Packaging : 2.0 Liter, Pet Bottle
Test Started on : 07/05/2020
Test Completed : 13/05/2020
Method of Sampling : SOP/B/D-3
Date of Sampling : 31/03/2020
Sampling Conducted By : Mr. Manmohan Singh
Place of Sampling : W-4: STP Outlet, Inside Township Phase-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Standards	Protocol
			W4		
1	pH	-	7.38	6.5 to 9.0	IS:3025 (P-11)
2	Temperature	°C	28.7	-	IS:3025 (P-9)
3	TSS	mg/l	9.2	≤10mg/l	IS:3025 (P-17)
4	COD	mg/l	46.1	≤50mg/l	IS:3025 (P-58)
5	BOD	mg/l	6.7	≤10mg/l	IS:3025 (P-44)
6	O & G	mg/l	BDL	5.0 mg/l	IS:3025 (P-39)
7	Ammonical Nitrogen as N*	mg/l	3.28	≤5mg/l	IS:3025 (P-34)
8	N-total*	mg/l	8.19	≤10mg/l	IS:3025 (P-34)
9	PO4-P*	mg/l	1.10	≤2mg/l	IS:3025 (P-31)

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Annexure-III

Noise Monitoring Reports from Oct'2019 to Mar'2020

TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Job Booking No.: NL/100001595
Test Report Date: 07/11/2019

Sample Particulars:

Nature of the Sample : **Ambient Noise**
Date of Monitoring : 31/10/2019
Purpose of Monitoring : To Check the Pollution Load
Place of Monitoring : HMEL Township
Monitoring Conducted By : Mr. Animesh Jha
Protocol Used : IS-9989

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) Leq For Residential Area		55 dB(A)	45 dB(A)
1	Admin Office	53.6	43.2
2	STP Road-Phase-1	51.3	42.4
3	STP Road-Phase-2	52.4	42.4
4	Club House	52.6	40.9
5	Market	51.7	42.2
6	On Main Road- (Phase-1)	53.2	41.8
7	On Main Road- (Phase-2)	52.3	42.6
8	Health Centre	51.2	43.6

*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	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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+91-129-2241021

+91-9013591021, +91-9013552273

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TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phulokhari, TalukaTalwandi Sabo
Distt.Bhatinda, Punjab, India

Ref. No.: NL/100001784
Test Report Date: 11/12/2019

Sample Particulars:

Nature of the Sample : **Ambient Noise**
Date of Monitoring : 30/11/2019
Purpose of Monitoring : To Check the Pollution Load
Place of Monitoring : HMEI Township
Monitoring Conducted By : Mr. Animesh Jha
Protocol Used : IS: 9989

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Residential Area		55 dB(A)	45 dB(A)
1	Admin Office	53.2	41.8
2	STP Road-Phase-1	54.3	42.7
3	STP Road-Phase-2	53.1	43.8
4	Club House	54.2	41.5
5	Market	51.9	43.3
6	On Main Road- (Phase-1)	51.8	43.2
7	On Main Road- (Phase-2)	53.3	41.8
8	Health Centre	53.1	43.7

*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	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Report

Issued to: **HPCL-Mittal Energy Limited**
Village Phulokhari, TalukaTatwandi Sabo
Distt.Bhatinda, Punjab, India

Ref. No.: NL/100002551
Test Report Date: 08/02/2020

Sample Particulars:

Nature of the Sample : **Ambient Noise**
Date of Monitoring : 30/01/2020
Purpose of Monitoring : To Check the Pollution Load
Place of Monitoring : HMEL Township
Monitoring Conducted By : Mr. Animesh Jha
Protocol Used : IS: 9989

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) Leq For Residential Area		55 dB(A)	45 dB(A)
1	Admin Office	53.2	43.3
2	STP Road-Phase-1	52.3	42.1
3	STP Road-Phase-2	51.9	40.3
4	Club House	54.1	43.1
5	Market	53.2	41.5
6	On Main Road- (Phase-1)	52.1	41.4
7	On Main Road- (Phase-2)	52.2	42.4
8	Health Centre	53.4	42.7

*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	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, TalukaTalwandi Sabo
Distt.Bhatinda, Punjab, India

Report No.: NL/100003009
Test Report Date: 09/03/2020

Sample Particulars:

Nature of the Sample : **Ambient Noise**
Date of Monitoring : 29/02/2020
Purpose of Monitoring : To Check the Pollution Load
Place of Monitoring : HMEL Township
Monitoring Conducted By : Mr. Animesh Jha
Protocol Used : IS: 9989

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) Leq For Residential Area		55 dB(A)	45 dB(A)
1	Admin Office	52.1	42.1
2	STP Road-Phase-1	53.2	43.2
3	STP Road-Phase-2	49.5	41.5
4	Club House	52.7	42.3
5	Market	54.2	43.7
6	On Main Road- (Phase-1)	50.6	40.2
7	On Main Road- (Phase-2)	53.2	42.5
8	Health Centre	50.8	41.2

*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	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, TalukaTalwandi Sabo
Distt.Bhatinda, Punjab, India

Report No.: NL/1000C3640
Test Report Date: 14/05/2020

Sample Particulars:

Nature of the Sample : Ambient Noise
Date of Monitoring : 30/03/2020
Purpose of Monitoring : To Check the Pollution Load
Place of Monitoring : HMEL Township
Monitoring Conducted By : Mr. Animesh Jha
Protocol Used : IS: 9989

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) Leq For Residential Area		55 dB(A)	45 dB(A)
1	Admin Office	51.3	42.1
2	STP Road-Phase-1	50.4	40.3
3	STP Road-Phase-2	49.8	41.2
4	Club House	52.1	41.4
5	Market	51.3	39.7
6	On Main Road- (Phase-1)	50.3	40.6
7	On Main Road- (Phase-2)	51.3	42.1
8	Health Centre	50.4	41.3

*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	Limits dB (A) Leq	
		Day Time (6AM - 10PM)	Night Time (10PM - 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Annexure-IV

Ambient Air Quality Reports from Oct'2019 to Mar'2020

Ambient Air Quality Reports for the month of Oct'2019

TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt.Bhatinda. Puniab. India

Job Booking No.: NL/100001497, 99, 1508, 1510, 19, 21, 30,
32, 41, 43, 52, 54, 63, 65, 74, 76
Test Report Date: 07/11/2019

Sample Particulars

Nature of the Sample
Sampling Location
Purpose of Monitoring
Method of Sampling
Monitoring Conducted By
Sampling Duration (Hrs.)

: Ambient Air Quality Monitoring
: Club House on Terrace (Township)
: To Check the Pollution Load
: IS 5182 (Part 14)
: Mr. AnimeshJha
: 24 Hrs.

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Nickel (as Ni), ng/m ³	Arsenic (as As), ng/m ³	Benzo(a)pyrene (as BaP*), ng/m ³	Lead (as Pb), µg/m ³	Particulate matter (PM _{2.5}), µg/m ³	Particulate matter (PM ₁₀), µg/m ³	Sulphur Dioxide (as SO ₂), µg/m ³	Nitrogen Dioxide (as NO ₂), µg/m ³	Carbon Monoxide (as CO), mg/m ³
03/10/2019	01:10	1.16	0.98	BDL	BDL	BDL	BDL	26.9	84.4	10.12	13.8	0.312
07/10/2019	12:55	1.09	0.99	BDL	BDL	BDL	BDL	24.7	86.6	12.24	20.6	0.396
10/10/2019	12:50	1.15	1.2	BDL	BDL	BDL	BDL	24.9	86.9	13.6	24.5	0.414
14/10/2019	12:45	1.16	0.98	BDL	BDL	BDL	BDL	22.6	82.6	15.6	21.6	0.396
17/10/2019	01:05	1.18	1.1	BDL	BDL	BDL	BDL	28.4	89.9	11.2	19.5	0.422
21/10/2019	1:00	1.11	0.99	BDL	BDL	BDL	BDL	24.2	86.4	9.9	19.8	0.326
24/10/2019	12:40	1.12	0.98	BDL	BDL	BDL	BDL	28.4	88.4	12.6	21.2	0.496
07/10/2019	12:45	1.17	1.2	BDL	BDL	BDL	BDL	29.8	89.2	12.9	23.8	0.448
National Ambient Air Quality Monitoring Standards 2009				20	6	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	AAS Method	IS:5182 (P-22)	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method	IS:5182 (P-23)

Remark: NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable

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(RAVINDER MITTAL)

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+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB
TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt.Bhatinda, Punjab, India

Job Booking No.: NL/100001498, 1500, 09, 11, 20, 22, 31, 33, 42,
44, 53, 55, 64, 66, 75, 77
Test Report Date: 07/11/2019

Sample Particulars

Nature of the Sample
Sampling Location
Purpose of Monitoring
Method of Sampling
Monitoring Conducted By
Sampling Duration (Hrs.)

: Ambient Air Quality Monitoring
: Flat No. 101 to 108 on Terrace (Township)
: To Check the Pollution Load
: IS 5182 (Part 14)
: Mr. AnimeshJha
: 24 Hrs.

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Nickel (as Ni), ng/m ³	Arsenic (as As), ng/m ³	Benzo (a) pyrene (as BAP*), ng/m ³	Lead (as Pb), µg/m ³	Particulate matter (PM _{2.5}), µg/m ³	Particulate matter (PM ₁₀), µg/m ³	Sulphur Dioxide (as SO ₂), µg/m ³	Nitrogen Dioxide (as NO ₂), µg/m ³	Carbon Monoxide (as CO), mg/m ³
03/10/2019	1:40	1.12	1.1	BDL	BDL	BDL	BDL	30.2	84.4	12.8	30.2	0.592
07/10/2019	1:25	1.14	1.2	BDL	BDL	BDL	BDL	28.2	82.2	14.6	28.2	0.616
10/10/2019	1:20	1.09	1.1	BDL	BDL	BDL	BDL	27.7	82.7	13.2	27.7	0.624
14/10/2019	1:15	1.08	0.99	BDL	BDL	BDL	BDL	26.1	88.6	14.4	26.1	0.501
17/10/2019	1:35	1.16	1.0	BDL	BDL	BDL	BDL	29.4	84.2	14.8	29.4	0.602
21/10/2019	1:30	1.13	0.99	BDL	BDL	BDL	BDL	28.4	89.2	12.2	28.4	0.412
24/10/2019	1:10	1.05	0.98	BDL	BDL	BDL	BDL	27.2	83.2	14.2	27.2	0.512
30/10/2019	1:15	1.15	1.2	BDL	BDL	BDL	BDL	34.1	84.6	14.6	34.1	0.421
National Ambient Air Quality Monitoring Standards 2009				20	6	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	AAS Method	IS:5182 (P-22)	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method	IS:5182 (P-23)

Remark: *NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ: 6.0] BAP-BDL [LOQ: 1.0] Lead-BDL [LOQ: 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable

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+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Ambient Air Quality Reports for the month of Nov'2019

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt.Bhatinda, Punjab, India

Ref. No.: NL/100001687,89,98,1700,09,11,20,22,31,33,42,
44,53,55,64,66
Test Report Date: 11/12/2019

Sample Particulars

Nature of the Sample	: Ambient Air Quality Monitoring
Sampling Location	: Flat No. 101 to 108 on Terrace (Township)
Purpose of Monitoring	: To Check the Pollution Load
Method of Sampling	: IS 5182 (Part 14)
Monitoring Conducted By	: Mr. AnimeshJha
Sampling Duration (Hrs.)	: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Ni ng/m ³	As ng/m ³	BAP, ng/m ³	Pb µg/ m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
04/11/2019	1:20	1.14	0.99	BDL	BDL	BDL	BDL	26.4	80.2	10.4	27.2	0.592
08/11/2019	1:10	1.09	0.98	BDL	BDL	BDL	BDL	24.6	84.6	12.8	309	0.595
11/11/2019	1:30	1.18	1.1	BDL	BDL	BDL	BDL	28.9	82.6	11.8	27.0	0.586
15/11/2019	1:05	1.15	0.98	BDL	BDL	BDL	BDL	28.7	86.2	12.5	29.3	0.426
18/11/2019	1:25	1.14	1.2	BDL	BDL	BDL	BDL	28.4	84.6	11.4	25.6	0.594
22/11/2019	1:20	1.22	1.1	BDL	BDL	BDL	BDL	26.5	88.8	12.4	27.8	0.446
25/11/2019	1:10	1.20	0.99	BDL	BDL	BDL	BDL	26.8	80.2	12.2	28.4	0.599
29/11/2019	1:30	1.12	1.2	BDL	BDL	BDL	BDL	30.9	83.6	12.6	28.2	0.496
National Ambient Air Quality Monitoring Standards 2009				6	BDL	01	60	100	80	04	100	
Test Method				AAS Method	AAS Method	IS:5182 (P-22)	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method	IS:5182 (P-23)	

Remark:

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable, Sample Analysed within Three days after Receipt.



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+91-9013591021, +91-9013552273

labsnitya@gmail.com

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

TEST REPORT

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda. Puniab. India

Ref. No.: NL/100001686,88,97,99,1708,10,19,21,30,32,41,43,
52,54,63,65

Test Report Date: 11/12/2019

Sample Particulars

Nature of the Sample
Sampling Location
Purpose of Monitoring
Method of Sampling
Monitoring Conducted By
Sampling Duration (Hrs.)

: Ambient Air Quality Monitoring
: Club House on Terrace (Township)
: To Check the Pollution Load
: IS 5182 (Part 14)
: Mr. AnimeshJha
: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m ³ /m)	AFR for FPS (m ³ /hr)	Parameter								
				Ni ng/m ³	As ng/m ³	BAP, ng/m ³	Pb µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
04/11/2019	1:00	1.06	1.2	BDL	BDL	BDL	BDL	24.2	82.2	10.2	18.2	0.294
08/11/2019	12:50	1.18	1.1	BDL	BDL	BDL	BDL	28.7	86.9	12.5	21.6	0.452
11/11/2019	1:10	1.12	0.98	BDL	BDL	BDL	BDL	26.2	80.6	13.9	22.4	0.384
15/11/2019	12:45	1.14	0.99	BDL	BDL	BDL	BDL	30.4	88.4	13.6	22.9	0.386
18/11/2019	1:05	1.20	1.2	BDL	BDL	BDL	BDL	32.9	82.2	11.4	19.2	0.448
22/11/2019	1:00	1.14	1.1	BDL	BDL	BDL	BDL	30.8	82.8	9.2	19.0	0.476
25/11/2019	12:50	1.20	1.2	BDL	BDL	BDL	BDL	30.6	88.9	11.8	22.8	0.564
29/11/2019	1:10	1.16	0.99	BDL	BDL	BDL	BDL	28.2	86.2	12.6	20.2	0.556
National Ambient Air Quality Monitoring Standards 2009				20	6	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	IS:5182 (P-12)	IS:5182 (P-22)	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method	IS:5182 (P-23)

Remark:
*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station. N.A.-Not Applicable, Sample Analyzed within Three days after Receipt.


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(RAVINDER MITTAL)

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+91-9013591021, +91-9013552273

labsnitya@gmail.com

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Ambient Air Quality Reports for the month of Dec'2019

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Ref. No.: NL/100001812,14,41,43,65,67,1946,48,2000,
02,89,91,2100,2102,11,13

Test Report Date: 06/01/2020

Sample Particulars

Nature of the Sample
Sampling Location
Purpose of Monitoring
Method of Sampling
Monitoring Conducted By
Sampling Duration (Hrs.)

: Ambient Air Quality Monitoring
: Flat No. 101 to 108 on Terrace (Township)
: To Check the Pollution Load
: IS 5182 (Part 14)
: Mr. Animesh Jha
: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Ni ng/m ³	As ng/m ³	BAP, ng/m ³	Pb µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO ₃ mg/m ³
02/12/2019	1:25	1.02	0.1	BDL	BDL	BDL	BDL	31.2	85.2	10.8	30.4	0.631
06/12/2019	1:18	1.02	0.98	BDL	BDL	BDL	BDL	36.6	86.5	12.4	39.6	0.224
09/12/2019	1:36	1.01	1.12	BDL	BDL	BDL	BDL	34.8	80.4	14.6	32.5	0.654
13/12/2019	1:10	1.08	0.98	BDL	BDL	BDL	BDL	36.4	88.4	10.6	33.5	0.364
16/12/2019	1:25	1.09	1.1	BDL	BDL	BDL	BDL	26.8	83.4	12.4	28.4	0.678
20/12/2019	1:26	1.04	1.08	BDL	BDL	BDL	BDL	26.5	82.6	16.8	22.8	0.754
23/12/2019	1:35	1.03	0.99	BDL	BDL	BDL	BDL	28.6	84.6	10.2	26.4	0.694
27/12/2019	1:32	1.04	1.2	BDL	BDL	BDL	BDL	35.9	86.8	14.8	32.4	0.521
National Ambient Air Quality Monitoring Standards 2009				20	6	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	IS:5182 (P-12)	IS:5182 (P-22)	Gravimetric	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method

Remark:

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable, Sample Analysed within Three days after Receipt.

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued to: HPCL-Mittal Energy Limited
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda. Puniab. India

Ref. No.: NL/100001811,13,40,42,64,66,1945,47,99,2001, 88,90,
99, 2101,10,12

Test Report Date: 06/01/2020

Sample Particulars

Nature of the Sample

Sampling Location

Purpose of Monitoring

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

: **Ambient Air Quality Monitoring**

: Club House on Terrace (Township)

: To Check the Pollution Load

: IS 5182 (Part 14)

: Mr. Animesh Jha

: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Ni ng/m ³	As ng/m ³	BAP, ng/m ³	Pb µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
02/12/2019	1:40	1.04	1.1	BDL	BDL	BDL	BDL	22.8	84.2	12.4	20.8	0.621
06/12/2019	12:50	1.02	1.1	BDL	BDL	BDL	BDL	30.4	88.2	12.8	22.6	0.351
09/12/2019	1:30	1.06	0.98	BDL	BDL	BDL	BDL	24.6	86.5	13.2	25.6	0.224
13/12/2019	12:52	1.04	0.99	BDL	BDL	BDL	BDL	32.6	80.2	14.5	26.2	0.461
16/12/2019	1:30	1.02	1.2	BDL	BDL	BDL	BDL	34.1	84.2	12.6	22.4	0.358
20/12/2019	1:35	1.02	1.1	BDL	BDL	BDL	BDL	32.4	84.4	10.6	21.4	0.398
23/12/2019	12:55	1.20	1.2	BDL	BDL	BDL	BDL	32.6	80.6	12.4	24.4	0.394
27/12/2019	1:15	1.12	0.99	BDL	BDL	BDL	BDL	26.6	86.2	10.8	24.6	0.481
National Ambient Air Quality Monitoring Standards 2009				20	6	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	IS:5182 (P-12)	IS:5182 (P-22)	Gravimetric	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method

Remark:

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable. Sample Analysed within Three days after Receipt.

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(RAVINDER MITTAL)

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+91-9013591021, +91-9013552273

labsnitya@gmail.com

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Ambient Air Quality Reports for the month of Jan'2020

Test Report

Issued to: **HPCL-Mittal Energy Limited**
Village Phulokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Ref. No.: NL/100002262, 2279, 2307, 2332, 2369, 2434, 2468, 250
Test Report Date: 08/02/2020

Sample Particulars

Nature of the Sample	: Ambient Air Quality Monitoring
Sampling Location	: Flat No. 101 to 108 on Terrace (Township)
Purpose of Monitoring	: To Check the Pollution Load
Method of Sampling	: IS 5182 (Part 14)
Monitoring Conducted By	: Mr. Animesh Jha
Sampling Duration (Hrs.)	: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Ni ng/m ³	As ng/m ³	BAP*, ng/m ³	Pb µg/ m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³
03/01/2020	11:10	1.04	0.99	BDL	BDL	BDL	BDL	39.8	80.3	18.7	34.6	0.592
06/01/2020	11:20	1.01	0.98	BDL	BDL	BDL	BDL	39.5	81.2	17.3	37.1	0.254
09/01/2020	11:12	1.03	1.10	BDL	BDL	BDL	BDL	41.8	81.1	13.2	32.5	0.612
13/01/2020	11:17	1.04	0.98	BDL	BDL	BDL	BDL	49.8	86.5	19.1	33.5	0.868
16/01/2020	11:24	1.05	1.11	BDL	BDL	BDL	BDL	51.2	78.9	17.7	29.4	0.678
20/01/2020	11:13	1.02	1.04	BDL	BDL	BDL	BDL	37.6	79.7	16.8	35.6	0.927
23/01/2020	11:35	1.01	0.99	BDL	BDL	BDL	BDL	35.5	81.2	15.5	30.1	0.634
28/01/2020	11:50	1.01	1.20	BDL	BDL	BDL	BDL	41.2	83.2	18.9	28.7	0.512
National Ambient Air Quality Monitoring Standards 2009				20	6	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	IS:5182 (P-12)	IS:5182 (P-22)	Gravimetric	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method

Remark:

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(ii)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable, Sample Analyzed within Three days after Receipt.


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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✉ labsnitya@gmail.com

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued to: **HPCL-Mittal Energy Limited**
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda. Puniab. India

Ref. No.: NL/100002263, 2280, 2308, 2333, 2370, 2435, 2469, 2506
Test Report Date: 08/02/2020

Sample Particulars

Nature of the Sample

Sampling Location

Purpose of Monitoring

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

: **Ambient Air Quality Monitoring**

: Club House on Terrace (Township)

: To Check the Pollution Load

: IS 5182 (Part 14)

: Mr. Animesh Jha

: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Ni ng/m ³	As ng/m ³	BAP, ng/m ³	Pb µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
03/01/2020	11:20	1.16	1.2	BDL	BDL	BDL	BDL	29.5	86.1	13.2	23.3	0.827
06/01/2020	11:35	1.11	0.99	BDL	BDL	BDL	BDL	34.4	85.3	14.3	25.5	0.625
09/01/2020	11:30	1.13	0.98	BDL	BDL	BDL	BDL	31.8	87.5	15.6	24.3	0.291
13/01/2020	11:37	1.08	0.99	BDL	BDL	BDL	BDL	33.3	78.6	17.2	28.7	0.625
16/01/2020	11:40	1.20	1.20	BDL	BDL	BDL	BDL	37.6	79.8	11.9	28.3	0.735
20/01/2020	11:40	1.19	0.99	BDL	BDL	BDL	BDL	39.2	81.1	12.5	23.3	0.398
23/01/2020	11:50	1.20	1.19	BDL	BDL	BDL	BDL	30.5	82.1	12.8	26.6	0.562
28/01/2020	12:05	1.16	0.98	BDL	BDL	BDL	BDL	29.8	87.3	10.7	25.5	0.482
National Ambient Air Quality Monitoring Standards 2009				20	6	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	IS:5182 (P-12)	IS:5182 (P-22)	Gravimetric	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method

Remark:

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable, Sample Analysed within Three days after Receipt.



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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labsnitya@gmail.com

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Ambient Air Quality Reports for the month of Feb'2020

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued to: **HPCL-Mittal Energy Limited**

Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Report No.: NL/100002721,2740,2779,2824,2855,2897,2931,2949

Test Report Date: 09/03/2020

Sample Particulars

Nature of the Sample

Sampling Location

Purpose of Monitoring

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

: **Ambient Air Quality Monitoring**

: Flat No. 101 to 108 on Terrace (Township)

: To Check the Pollution Load

: IS 5182 (Part 14)

: Mr. Animesh Jha

: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Ni ng/m ³	As ng/m ³	BAP*, ng/m ³	Pb µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³
03/02/2020	12:28	1.12	1.00	BDL	BDL	BDL	BDL	45.3	78.6	17.6	35.7	0.654
07/02/2020	12:49	1.11	0.99	BDL	BDL	BDL	BDL	42.1	83.2	15.4	32.4	0.981
10/02/2020	11:48	1.21	1.00	BDL	BDL	BDL	BDL	34.5	87.3	14.5	33.5	0.464
14/02/2020	11:58	1.05	0.99	BDL	BDL	BDL	BDL	38.9	89.2	17.6	35.6	0.746
17/02/2020	12:28	1.02	1.00	BDL	BDL	BDL	BDL	56.7	79.3	18.2	24.5	0.918
21/02/2020	12:10	1.01	0.98	BDL	BDL	BDL	BDL	43.2	73.4	16.2	39.7	0.182
24/02/2020	12:35	1.02	1.00	BDL	BDL	BDL	BDL	39.1	80.7	14.9	32.1	0.342
27/02/2020	12:45	1.00	1.00	BDL	BDL	BDL	BDL	42.3	81.1	19.1	29.8	0.543
National Ambient Air Quality Monitoring Standards 2009				20	06	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	IS:5182 (P-12)	IS:5182 (P-22)	Gravimetric	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method

Remark:

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable, Sample Analysed within Three days after Receipt.

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(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued to: **HPCL-Mittal Energy Limited**
Village Phulokhari, Taluka Talwandi Sabo
Distt. Bhatinda. Puniab. India

Report No.: NL/100002722,2741,2780,2825,2856,2898,2932,2950
Test Report Date: 09/03/2020

Sample Particulars

Nature of the Sample	: Ambient Air Quality Monitoring
Sampling Location	: Club House on Terrace (Township)
Purpose of Monitoring	: To Check the Pollution Load
Method of Sampling	: IS 5182 (Part 14)
Monitoring Conducted By	: Mr. Animesh Jha
Sampling Duration (Hrs.)	: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter								
				Ni ng/m ³	As ng/m ³	BAP, ng/m ³	Pb µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
03/02/2020	12:40	1.11	1.0	BDL	BDL	BDL	BDL	32.1	78.6	17.2	29.4	0.657
07/02/2020	13:13	1.12	0.99	BDL	BDL	BDL	BDL	37.8	79.2	16.2	21.2	0.982
10/02/2020	12:13	1.10	0.98	BDL	BDL	BDL	BDL	40.2	81.2	14.9	20.6	0.324
14/02/2020	12:24	1.04	1.00	BDL	BDL	BDL	BDL	39.7	83.1	15.6	23.4	0.546
17/02/2020	12:55	1.10	1.21	BDL	BDL	BDL	BDL	32.1	75.6	12.3	24.1	0.896
21/02/2020	12:40	1.11	1.00	BDL	BDL	BDL	BDL	37.8	80.6	14.2	26.5	0.451
24/02/2020	12:50	1.20	1.14	BDL	BDL	BDL	BDL	42.1	81.2	12.1	24.4	0.671
27/02/2020	13:05	1.10	1.00	BDL	BDL	BDL	BDL	32.1	86.1	12.4	21.9	0.567
National Ambient Air Quality Monitoring Standards 2009				20	06	01	01	60	100	80	80	04
Test Method				AAS Method	AAS Method	IS:5182 (P-12)	IS:5182 (P-22)	Gravimetric	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	NDIR Method

Remark:

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(ii)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable, Sample Analysed within Three days after Receipt.



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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued to: **HPCL-Mittal Energy Limited**
Village Phullokhari, Taluka Talwandi Sabo
Distt. Bhatinda, Punjab, India

Report No.: NL/100003351, 3397, 3420, 3468, 3493, 3550, 3575, 3637
Test Report Date: 14/05/2020

Sample Particulars

Nature of the Sample
Sampling Location
Purpose of Monitoring
Method of Sampling
Monitoring Conducted By
Sampling Duration (Hrs.)

: **Ambient Air Quality Monitoring**
: Flat No. 101 to 108 on Terrace (Township)
: To Check the Pollution Load
: IS 5182 (Part 14)
: Mr. Animesh Jha
: 24 Hrs.

Analysis Report

Date of Sampling	Time	AFR for RDS (m3/m)	AFR for FPS (m3/hr)	Parameter									
				Ni ng/m ³	As ng/m ³	BaP*, ng/m ³	Pb µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	
02/03/2020	11:40	1.12	1.00	BDL	BDL	BDL	BDL	42.1	76.3	19.2	32.1	0.721	
06/03/2020	11:10	1.10	0.99	BDL	BDL	BDL	BDL	38.5	75.4	15.6	35.4	0.621	
09/03/2020	11:25	0.99	1.12	BDL	BDL	BDL	BDL	40.2	80.2	16.2	30.1	0.643	
13/03/2020	11:45	1.12	0.99	BDL	BDL	BDL	BDL	43.1	78.3	17.6	34.8	0.731	
16/03/2020	11:29	1.12	1.00	BDL	BDL	BDL	BDL	39.5	67.2	18.3	30.6	0.743	
20/03/2020	11:30	0.98	1.12	BDL	BDL	BDL	BDL	40.5	70.1	15.5	29.8	0.823	
26/03/2020	11:45	1.00	0.98	BDL	BDL	BDL	BDL	32.1	78.3	18.9	32.8	0.541	
31/03/2020	11:50	1.21	1.00	BDL	BDL	BDL	BDL	40.2	81.2	21.1	25.4	0.498	
National Ambient Air Quality Monitoring Standards 2009				20	06	01	01	60	100	80	80	04	
Test Method				AAS Method	AAS Method	IS:5182 (P-12)	IS:5182 (P-22)	Gravimetric	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-2)	IS:5182 (P-2)	NDIR Method

Remark:

*NAAQS – National Ambient Air Quality Standards: Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(ii)] 16.11.2009, BDL-Below Detection Limit, Arsenic-BDL [LOQ- 6.0] BAP-BDL [LOQ- 1.0] Lead-BDL [LOQ- 1.0], N.A.-Not Applicable, AFR-Average Flow Rate, AAQMS-Ambient Air Quality Monitoring Station, N.A.-Not Applicable, Sample Analysed within Three days after Receipt.



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Annexure-V

HMEL-Township CTO valid from 11.04.2018 to 31.03.2021



PUNJAB POLLUTION CONTROL BOARD

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

Website:- www.ppcb.gov.in

Office Dispatch No : _____ Registered/Speed Post _____ Date: _____
Industry Registration ID: OI4BTI2226523 Application No : 7223207

To,
Mr. Krishan Tuteja
Bathinda, Bathinda-151301

Subject: Renew 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/Rejnewal/BTI/2018/7223207
Date of issue :	11/04/2018
Date of expiry :	31/03/2021
Certificate Type :	Renewal
Previous CTO No. & Validity :	RI6BTICTOA4135972 From: 05/07/2016 To: 31/03/2018

2. Particulars of the Industry

Name & Designation of the Applicant	Mr. Krishan Tuteja, (Manager-Refinery & VP - Operation)
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	25159.47 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. 2681 dt. 05.07.2016, the validity of the 'consent to operate' granted to the residential colony under the Air Act, 1981 vide no. R16BTICTOA4135972 dated 05.07.2016, is hereby extended up to 31.03.2021, subject to the same terms and conditions as mentioned in the original consent alongwith the following special conditions:-

- a) The project proponent shall process, treat and dispose off the bio-degradable waste through composting or bio-methanation within its premises and shall ensure the compliance of Solid Waste Management Rules, 2016, within one month.
- b) The project proponent shall get the validity of environment clearance extended for further time period from the MoEF & CC and in case of non requirement for extension in validity of Environment Clearance, the project proponent will submit the concerned document to the Board.

This letter be remain appended with the original consent granted to the residential colony under the Air Act, 1981 vide no. R16BTICTOA4135972 dated 05.07.2016.

Handwritten initials

Handwritten signatures and dates
ਮ.ਦ. ਫਿ: 1/2/2018

Signature
Assistant Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

Endst. No.: 1305

Dated: 12/06/2018

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



Signature
Assistant Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

Handwritten note

Handwritten signatures and initials

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Hmel-township, Hpcl mittal energy ltd. (residential colony), village raman & tarkhanwala, distt. bathinda, Talwandi sabo, Bathinda, 151341

Copy of Water Consent Valid from 11.04.2018 to 31.03.2021



PUNJAB POLLUTION CONTROL BOARD
Zonal Office, Power House Road, Street No. 12, Bathinda
Website:- www.ppcb.gov.in

Office Dispatch No : _____ Registered/Speed Post _____ Date: _____
Industry Registration ID: **014BTI2226523** Application No : **7223810**

To,
Krishan Tuteja
Bathinda, Bathinda-151301

Subject: Renewal of consent to Operate an outlet u/s 25/26 of **Water (Prevention & 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/2018/7223810
Date of issue :	18/04/2018
Date of expiry :	31/03/2021
Certificate Type :	Renewal
Previous CTO No. & Validity :	R16BTICTOW4136106 From:05/07/2016 To:31/03/2018

2. Particulars of the Industry

Name & Designation of the Applicant	Mr. Krishan Tuteja, (Manager-Refinery & YP - Operation)
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	25159.47 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.2679 dt. 05.07.2016, the validity of the 'consent to operate' granted to the residential colony under the Water Act, 1974 vide no. R16BTICTOW4136106 dated 05.07.2016, is hereby extended up to 31.03.2018, subject to the same terms and conditions as mentioned in the original consent alongwith the following special conditions:-

- a) The project proponent shall operate its STPs installed in Phase-I & Phase-II in a scientific manner and shall maintain proper record of the same.
- b) The project proponent shall process, treat and dispose off the bio-degradable waste through composting or bio-methanation within its premises and shall ensure the compliance of Solid Waste Management Rules, 2016, within one month.
- c) The project proponent shall get the validity of environment clearance extended for further time period from the MoEF & CC and in case of non requirement for extension in validity of Environment Clearance, the project proponent will submit the concerned document to the Board.

This letter be remain appended with the original consent granted to the residential colony under the Water Act, 1974 vide no. R16BTICTOW4136106 dated 05.07.2016.

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ਜਵਾਇ

ਦਫਤਰ ਭਿੰਡਾ

18/4/18

ਸੀ.ਮ./ਸਟੈਂਡ

ਪ.ਪ. ਨੰ: 1/2/3/4

sd
Assistant Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

Dated: 18.4.18

Endst. No.: 1348

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

Assistant Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)



ਮਿਸਟਰ ਸ਼ਰਮਾ

ਮਿਸਟਰ ਸ਼ਰਮਾ

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