



Letter No.: 9112-000-GGSPAP-009-2023-062

Date: 2nd Dec. 2023

To,
The Director,
Minister of Environment Forests & Climate Change,
Northern Regional Office,
Bays No. 24-25, Sector 31-A,
Dakshin Marg,
Chandigarh-160030

Subject: Environment Compliance report (April 2023 to December 2023) of Polymer Addition Project at Guru Gobind Singh Refinery Complex in District Bathinda (Punjab) by HPCL – Mittal Energy Ltd (HMEL).

Your Ref. No.: Environment Clearance Letter No.: J-1101/266/2017-IA-II (I) dated 12 Dec 2017

Environment Clearance Letter No.: J-1101/266/2017-IA-II (I) dated 07 Dec 2021

Dear Sir,

Please find enclosed compliance report for the period April 2023 to September 2023, for the conditions stipulated in Environment Clearance of Guru Gobind Singh Polymer Addition Project, at Guru Gobind Singh Refinery Complex.

Best Regards,

Narendra Verma 2/12/2023

Narendra Verma
Deputy General Manager – Petchem Technical Services

Narendra Verma
Dy. General Manager-Petrochemical Process
Guru Gobind Singh Refinery
(A Unit of HPCL-Mittal Energy Limited)
Village-Phulokhari, Taluka Talwandi Sabo
Bathinda-151301, Punjab, India

Enclosure: Environment Compliance report (April 2023 to Sept 2023) of Polymer Addition Project at Guru Gobind Singh Refinery.

Annexure I: Copy of Air CTO and Water CTO (Consent to operate)

Annexure II: Month wise data of ambient air quality (for the period of Apr'2023 to Sept'23)

Annexure III: Activities undertaken for social upliftment in the nearby villages

Annexure IV: Eco-development measures including community welfare measures in the project area.

Annexure V: Acknowledgement copy of last Six monthly EC compliance report submitted to MoEF&CC, Regional office, Chandigarh. For the period of Oct'22 to March'23.

HPCL-Mittal Energy Limited

Half Yearly Compliance Report for the period of Apr'2023 to Sept'2023 for Environmental Clearance F. No. J-11011/266/2017-IA-II(I) dated 12th December 2017

Status of the Project: The units such as Dual Feed Cracker Unit, Butene – 1, Linear Low Density Polyethylene / High Density Polyethylene Swing Unit, High Density Polyethylene Unit, Polypropylene Unit and Storage Facilities are under commissioning/startup.

Annexure-1: Specific conditions as per EC

S.No. (As per E.C. letter)	Specific Conditions	Status
1.	In view of the base line air quality data for PM10 & PM2.5 already exceeding the prescribed standards, one more season data to be collected to confirm the consistency of readings/values, and submitted to Ministry/EAC within six-month period positively, along with mitigating measures.	Complied. The air quality data for PM10 and PM2.5 data was submitted to MOEFCC along with mitigation measures vide letter no.: 9112-000-GGSPAP-009-2018-043 on 11 th June 2018.
2	During process/detailed engineering, all emission sources shall be equipped with the latest devices to ensure emissions/values in the present readings/values.	Complied. To ensure emissions under control height of stack is kept 70m, eliminated SOx emission from GGSPAP by integrating amine system with refinery and recovering as Sulfur in existing SRU's and Low NOx burners are being used in DFCU and will be having 4 flare headers (Main, polymer, LLP, oxygen rich acid gas).
3	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. The Consent to Operate for the project has been obtained from Punjab Pollution Control Board (PPCB) dated 24/09/2022 which is valid till 31st Mar 2025. Annexure-I
4	As already committed by the project proponent, Zero Liquid Discharge shall be adopted.	Complied. GGSPAP has been designed with the philosophy of Zero Liquid Discharge. The treated effluent that will be generated will be recycled / reused in greenbelt development, cooling tower make up etc.
5	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016. Solid waste Management Rules, 2016 shall be obtained and the provisions contained in the rules shall be strictly adhered to.	Complied. Necessary authorization required under the Hazardous and Other Waste (Management and Trans-Boundary Movement) Rules, 2016 will be obtained from PPCB prior to commissioning. The solid waste that will be generated, will be disposed as per the Solid Waste Management Rules, 2016.

6	Environment standards for Petroleum Oil Refinery dated 18 th March 2008 and Environment Standards for Petrochemical (Basic and intermediates) dated on 9 th November, 2012, and its amendments from time to time shall be followed.	Complied. As the proposed project covered under this EC, consists of petrochemical units, the environmental standards for Petrochemicals (Basic and intermediates) dated on 9 th November, 2012 has been followed. The existing Refinery project is ensuring that environmental standards dated 18 th March 2008, prescribed for Petroleum Oil Refinery are being followed.
7	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Multi-cyclone followed by bag filter shall be provided to the DCU coke based CFBC boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Complied. To control source and the fugitive emissions, suitable pollution control device e.g. Benzene Vapor recovery unit is proposed to be installed and the installation of the same has been incorporated in the design engineering. No CFBC in GGSPAP.
8	The total fresh water requirements shall not be exceed 3500 m3/hr from Kotla Canal. Necessary permission in this regard shall be obtained from concerned regulatory authority. No ground water shall be used without prior permission from the CGWA.	Complied. During the operational phase of the project, the total fresh water requirement for GGSPAP shall not exceed 3500 m3/hr. from Kotla Canal. The permission in this regard has been obtained from the irrigation dept.
9	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Complied. The pipelines are being laid for carrying the process effluent for treatment in ETP. A separate storm water network has been designed to drain storm water in existing storm water pond. The design planning for the project is such that process effluents will not mix with storm water.
10	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arrestors shall be provided on tank farm, and solvent transfer to be done through pumps.	Complied. The hazardous chemical will be stored in tanks/tank farms. Flame arrestors will be provided in tanks farms at strategic locations. These aspects have being taken care in detailed engineering of the project.
11	Process organic residue and spent carbon shall be sent to cement industries. E.T.P sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	Being Complied. The condition has been taken into consideration in Solid /Hazardous Waste Summary in Project Phase. The hazardous waste generated from the project will be stored, transported and disposed as per the Hazardous and Other Wastes

		(Management and Trans Boundary Movement Rules, 2016). Coke generated by furnace decoke will be as fuel for existing refinery CFBC boiler.
12	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous chemicals shall be as per the Motor Vehicle Act (M.V.A) 1989.	Being complied. The company will comply with the Manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All hazardous chemicals shall be transported as per the Motor Vehicle Act (MVA), 1989.
13	Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.	No CFBC coming in the project.
14	The company shall undertake waste minimization measures as below:- a) Metering and control of quantities of active ingredients to minimize waste b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c) Use of automated filling to minimize spillage d) Use of Close Feed system into batch reactors e) Venting equipment through vapour recovery system f) Use of high pressure hoses for equipment clearing to reduce wastewater generation	Complied. Waste minimization measures as prescribed by MoEFCC has been Incorporated in the design engineering of the project.
15	The green belt at least 10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along roadside etc. As many as 25000 trees to be planted per year during first five years. Selection of plant species shall be as per the CPCB guidelines in consultation with state Forest Department.	Complied. Green belt has been developed as per the latest amended EC obtained from MoEF&CC dated 07th December 2021.
16	At least 2.5% of the total project cost shall be allocated for enterprise social commitment. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Implementation under finalization
17	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied.
18	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied Firefighting system in manufacturing process and material handling areas are installed as per OISD-116 standards, it includes 940 fire hydrants, 194 fire monitors, 2451 fire extinguishers.
19	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas	Being complied.

	discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Online SO _x , NO _x , CO and SPM analyzers installed and the online data will be transmitted to CPCB/PPCB servers. Similarly online continuous effluent monitoring systems and flow meters will be installed at the ETP and the online data for the same will be transmitted to CPCB/PPCB.
20	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied Occupation health surveillance is done once in six months for workers working in operational areas and yearly for workers working in non-operational area.

Annexure-2 : General conditions as per EC

S.No. (As per EC letter)	General Conditions	Status
1	The project authorities must strictly adhere to the stipulations made by the State Government, Central Pollution Control Board, State Pollution Control Board and any other statutory authority	Complied
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured the at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. There are 5 no's of ambient air quality monitoring stations for GGSR and GGSPAP complex. These stations have been installed in consultation with the Punjab Pollution Control Board. Month wise data of ambient air quality (for the period of Apr'2023 to Sept'23) is attached as Annexure II
4	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No 826(E) dated 16 th November, 2009 shall be followed.	Complied
5	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silences, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under Environment (Protection) Act, 1986 rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	Complied Noise control measures such as acoustic hoods, silencers, enclosures etc. are implemented to ensure that the ambient noise levels confirms to the standards prescribed under EPA , 1986 Rules,1989 viz. 75 dBA (day time) and 70 dBA (night time).
6	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Complied The rainwater harvesting system is designed in the petrochemical complex in which rainwater will be harvested from the rooftops of the buildings that will be meant for ground water recharge, and storm water drain that will be collected in existing Storm water pond for utilization in firefighting and horticulture. A total of 9 CRWS pit constructed strategically in petchem for rainwater collection.
7	Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine	Complied

	periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Each employee is imparted safety training before issuing gate pass and refresher training is done after 6 months. Health check is done six monthly for employees working operation area and yearly for workers working in nonoperational area.
8	The company shall also comply with all the environment protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	Complied The company shall comply with all the environment protection measures and safeguards proposed in the documents submitted to the Ministry. {REPORT NO. B018-1742-EI-1701 August 2017} All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project will be Implemented.
9	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	Complied Various measures taken for social upliftment in the nearby villages, till date by the project proponent are enclosed in Annexure III
10	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Complied Various eco-development measures including community welfare measures in the project area for the overall improvement of the environment are enclosed in Annexure IV
11	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement conditions stipulated by the Ministry of Environment, Forest and Climate change as well as the State government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management / pollution control measures shall not be diverted for any other purpose.	Complied The company has earmarked sufficient funds towards capital cost and recurring cost per annum to implement conditions stipulated by the MoEF &CC as well as PPCB and the funds earmarked will not be diverted for any other purpose.
12	A copy of clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Prishad / Municipal Corporation, Urban local Body and the local NGO, If any, from whom suggestions / representations if any, were received while processing the proposal.	Complied The company has not received any suggestions/representations while processing the proposal.
13	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environment Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF &CC, the respective Zonal office of CPCB and SPCB. A copy of	Complied. Last six monthly compliance report (Oct'2022 to Mar'2023) was submitted vide letter no. 9112-000-GGSPAP-009-2023-061. dated 18 th May2023 and

	Environment Clearance and six-monthly compliance status report shall be posted on the website of the company.	compliance reports for the same has been uploaded on the website of HMEL with following link. <u>HMEL - Disclosures and Reports</u> Annexure V
14	The environment statement for each financial year ending 31 st march in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be send to the respective Regional Offices of MoEF &CC by e-mail.	Will be complied.
15	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/committee and may also be seen at Website of the Ministry at http://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to other concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied The copy of the advertisement publishing the accordance of Environmental Clearance by MoEF&CC in the two local widely circulated newspaper namely Tribune Bathinda (English) and Ajit (Punjabi) was done on 15th Dec 2017.
16	The project authorities 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 and the date of start of the project.	Date of start of the project : 24 April 2017 Date of financial closure: May 2017 Date of final approval : April 2017

Half Yearly Compliance Report for the period of Oct'2022 to Mar'2023 for Amended Environmental Clearance F. No. J-11011/266/2017-IA-II(I) dated 7th December 2021

Annexure-1: Specific conditions as per EC

S.No. (As per E.C. letter)	Specific Conditions	Status
1.	The green belt shall be developed on 477 acres, out of which 315 acres' green belt shall be developed on the land adjacent and inside the refinery. The remaining green belt of about 163 acres shall be developed on land identified through District forest Department in Bathinda, Punjab. Selection of plant species shall be as per the CPCB guidelines in consultation with the state forest department.	Complied. Green belt has been developed as per the latest amended EC.



PUNJAB POLLUTION CONTROL BOARD
Invest Punjab, PBIP, Udyog Bhawan, Sector 17, Chandigarh.
Website:- www.ppcb.gov.in

Office Dispatch No :

Registered/Speed Post

Date:

Industry Registration ID: R12BTI44706

Application No : 19563058

To,

Sanket Thapar
Hpcl-mittal Energy Limited, guru Gobind Singh Refinery Project, village Phullokari, taluka Talwandi Saboo,
District Bathinda.
Bathinda, Bathinda-151301

Subject: Grant Varied 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for discharge of emissions arising out of premises.

With reference to your application for obtaining Varied 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby, authorized to operate an industrial unit for discharge of the emission(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate.

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

Consent to Operate Certificate No.	CTOA/Varied/BTI/2022/19563058
Date of issue :	24/09/2022
Date of expiry :	31/03/2025
Certificate Type :	Varied
Previous CTO No. & Validity :	CTOA/Varied/BTI/2022/18070511 From:09/05/2022 To:30/09/2022

2. Particulars of the Industry

Name & Designation of the Applicant	Sanket Thapar, (Deputy General Manager)
Address of Industrial premises	Hpcl-mittal Energy Limited (guru Gobind Singh Refinery), Village Phullokari, taluka Talwandi Saboo,, Talwandi Sabo, Bathinda-151301
Capital Investment of the Industry	4245260.0 lakhs
Category of Industry	Red
Type of Industry	Oil Refinery
Scale of the Industry	Large
Office District	Bathinda
Consent Fee Details	Bathinda Consent Fee Details Rs. 86,40,000/- through online vide R.no. SBINR12022012763913575 dated 27.01.2022 under Air Act, 1981, against the fixed assets of Rs. 4245759/-, which is adequate upto 31.03.2025

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Hpcl-mittal Energy Limited (guru Gobind Singh Refinery), Village Phullokari, taluka Talwandi Saboo,, Talwandi Sabo, Bathinda, 151301

Raw Materials (Name with Quantity per day)	<i>Crude Oil @33750Metric Tonnes/Day</i>
Products (Name with Quantity per day)	<i>LPG @1780Metric Tonnes/Day</i> <i>Naphtha @0Metric Tonnes/Day</i> <i>Gasoline @2980Metric Tonnes/Day</i> <i>ATF @1200Metric Tonnes/Day</i> <i>Kerosene @300Metric Tonnes/Day</i> <i>Diesel @11838Metric Tonnes/Day</i> <i>Sulphur @641Metric Tonnes/Day</i> <i>Coke @1695Metric Tonnes/Day</i> <i>Hexane @15Metric Tonnes/Day</i> <i>Poly Propylene @1400Metric Tonnes/Day</i> <i>Motor Turpentine Oil @75Metric Tonnes/Day</i> <i>Bitumen @1500Metric Tonnes/Day</i> <i>HDPE/LLDPE @3586Metric Tonnes/Day</i> <i>PP-Regular @974Metric Tonnes/Day</i> <i>PP-Impact @450Metric Tonnes/Day</i> <i>Benzene @237Metric Tonnes/Day</i> <i>Mixed Xylenes @483Metric Tonnes/Day</i> <i>Low Sulphur Fuel Oil @45Metric Tonnes/Day</i>
By-products, if any, (Name with Quantity per day)	<i>As per the application form.</i>
Details of the machinery and process	<i>As per documents appended with application.</i>
Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.	<ul style="list-style-type: none"> • <i>Fuel Oil for 4 no. boilers of capacity 240 TPH each.</i> • <i>Pet coke / coal for 2 no. boilers of capacity 300 TPH each.</i> • <i>HSD for 3 no. DG sets of capacity 8250 KVA, 3520 KVA & 1010 KVA.</i> • <i>Natural Gas for furnaces / Units</i>
Type of Air Pollution Control Devices to be installed	<ul style="list-style-type: none"> • <i>Low Nox burner with 4 no boilers of capacity 240 TPH each.</i> • <i>Separate ESP for 2 no. boilers of capacity 300 TPH each.</i> • <i>Canopies with DG sets of capacity 8250 KVA, 3520 KVA & 1010 KVA.</i>

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Hpcl-mittal Energy Limited (guru Gobind Singh Refinery),Village Phullokari,taluka Talwandi Saboo,,Talwandi Sabo,Bathinda,151301

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Stack height provided with each boiler/thermo heater/Furnace etc.	CDU/VDU85(Ground Level)/80(Roof Level) VGO-HDT Common Stack65(Ground Level)/60(Roof Level) DCU Heater Flue Gas Stack65(Ground Level)/60(Roof Level) DHDT-1 Reactor Feed Heater Stack-50775(Ground Level)/70(Roof Level) DHDT-2 Stack_60760(Ground Level)/55(Roof Level) HGU Flue Gas Stack Train 165(Ground Level)/60(Roof Level) HGU Flue Gas Stack Train 265(Ground Level)/60(Roof Level) Naphtha Superheater Stack30(Ground Level)/25(Roof Level) FCCU Furnace Stack80(Ground Level)/75(Roof Level) FCC Regenerator Flue Gas Stack42(Ground Level)/37(Roof Level) SRU Incinerator Train 1100(Ground Level)/88(Roof Level) SRU Incinerator Train 2100(Ground Level)/88(Roof Level) NHT reactor Heater Stack50(Ground Level)/45(Roof Level) CCR Common Stack68(Ground Level)/63(Roof Level) Bitumen Blowing Unit (BBU) Stack60(Ground Level)/55(Roof Level) UB-1100(Ground Level)/95(Roof Level) UB-2100(Ground Level)/95(Roof Level) UB-3100(Ground Level)/95(Roof Level) UB-4100(Ground Level)/95(Roof Level) UB-5130(Ground Level)/125(Roof Level) UB-6130(Ground Level)/125(Roof Level) HRSG-135(Ground Level)/30(Roof Level) HRSG-235(Ground Level)/30(Roof Level) FF-111170(Ground Level)/60(Roof Level) FF-111270(Ground Level)/60(Roof Level) FF-111370(Ground Level)/60(Roof Level) FF-111470(Ground Level)/60(Roof Level) FF-111570(Ground Level)/60(Roof Level) FF-111670(Ground Level)/60(Roof Level) FF-111770(Ground Level)/60(Roof Level)
Sources of emissions and type of pollutants	CDV/VDUSO ₂ /NO _x /CO/SPM FCCU HeaterSO ₂ /NO _x /CO/SPM FCCU -RegenerationSO ₂ /NO _x /CO/SPM HGU Train-1SO ₂ /NO _x /CO/SPM HGU Train-2SO ₂ /NO _x /CO/SPM Naphtha Superheater StackSO ₂ /NO _x /CO/SPM NHT Reactor Heater StackSO ₂ /NO _x /CO/SPM CCR Common StackSO ₂ /NO _x /CO/SPM SRU-525 StackSO ₂ /NO _x /CO SRU-524 StackSO ₂ /NO _x /CO VGO-HDT Common StackSO ₂ /NO _x /CO/SPM DHDT-I (507)SO ₂ /NO _x /CO/SPM DHDT-II (607)SO ₂ /NO _x /CO/SPM DCU Heater Flue Gas StackSO ₂ /NO _x /CO/SPM UB-1SO ₂ /NO _x /CO/SPM UB-2SO ₂ /NO _x /CO/SPM UB-3SO ₂ /NO _x /CO/SPM UB-4SO ₂ /NO _x /CO/SPM UB-5SO ₂ /NO _x /CO/SPM UB-6SO ₂ /NO _x /CO/SPM HRSG-1SO ₂ /NO _x /CO/SPM HRSG-2SO ₂ /NO _x /CO/SPM Bitumen Blowing Unit (BBU)SO ₂ /NO _x /CO/SPM FF-1111SO ₂ /NO _x /CO/SPM FF-1112SO ₂ /NO _x /CO/SPM FF-1113SO ₂ /NO _x /CO/SPM FF-1114SO ₂ /NO _x /CO/SPM FF-1115SO ₂ /NO _x /CO/SPM FF-1116SO ₂ /NO _x /CO/SPM FF-1117SO ₂ /NO _x /CO/SPM
Standards to be achieved under Air(Prevention & Control of Pollution) Act, 1981	As prescribed by the CPCB/Board/ MoEF&CC



24/09/2022

(Kamal Singla)
Environmental Engineer

For & on behalf

of

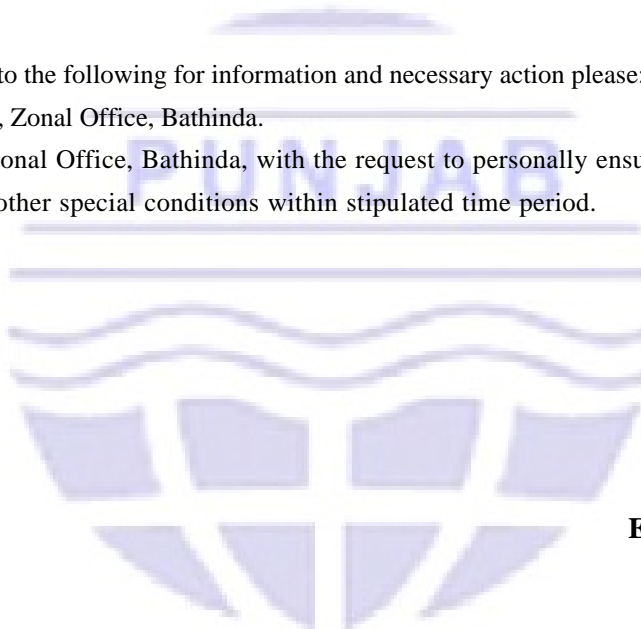
(Punjab Pollution Control Board)

Endst. No.:

Dated:

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

1. Senior Environmental Engineer, Zonal Office, Bathinda.
2. Environmental Engineer, Regional Office, Bathinda, with the request to personally ensure that the industry shall make the compliance of EC conditions & other special conditions within stipulated time period.



24/09/2022

(Kamal Singla)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

TERMS AND CONDITIONS

A. GENERAL CONDITIONS

1. This consent is not valid for getting power load from the Punjab State Power Corporation Ltd. or for getting loan from the financial institutions.
2. The industry shall apply for renewal /extension of consent at least two months before expiry of the consent.
3. The industry shall not violate any of the norms prescribed under the Air (Prevention & Control of Pollution) Act, 1981, failing which, the consent shall be cancelled / revoked.
4. The achievement of adequacy and efficiency of the air pollution control devices installed shall be the entire responsibility of the industry
5. The authorized fuel being used shall not be changed without the prior written permission of the Board.
6. The industry shall not discharge any fugitive emissions. All gases shall be emitted through a stack of suitable height, as per the norms fixed by the Board from time to time.
7. 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 (D_e) shall be calculated from the following equation to determine upstream, downstream distance:-
$$D_e = 2 LW / (L+W)$$

Where L= length in mts. W= Width in mts.
 - ii) The sampling port shall be 7 to 10 cm in diameter
8. The industry shall put display Board indicating environmental data in the prescribed format at the main entrance gate.
 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 which ever 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 $H = 14 Q_g^{0.3}$ or $H = 74 (Q_p)^{0.24}$ Where Q_g = Quantity of SO ₂ in Kg/hr. Q_p = 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:

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 pollution control devices shall be interlocked with the manufacturing process of the industry to ensure its regular operation.
11. The existing pollution control equipment shall be altered or replaced in accordance with the directions of the Board, and no pollution control equipment or chimney shall be altered or as the case may be erected or re-erected except with the prior approval of the Board.
12. The industry will provide canopy and adequate stack with the D.G sets so as to comply with the provision of notification No GSR-371 E dated 17-5-2002(amended from time to time) issued by MOEF under Environment (Protection) Act, 1986.
13. The Govt. of Punjab, Department of Science, Technology & Environment vide its notification no.4/46/92-3ST/2839 dt. 29/12/1993 has put prohibition on the use of rice husk as fuel after 1.4.1995 except the following:-
In the form of briquettes and use of rice husk in fluidized bed combustion. So the industry shall make the necessary arrangement to comply with the above notification.
14. The industry shall submit balance sheet of every financial year to the concerned Regional Office by 30th June of every year
15. That the industry shall submit a yearly certificate to the effect that no addition / up-gradation/ modification/ modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.
16.
 - a) The industry shall ensure that at any time the emission do not exceed the prescribed emissions standards laid down by the Board from time to time for such type of industry /emissions.
 - b) The industry shall ensure that the emissions from each stack shall conform to the following emission standards laid down by the Board in respect of the Industrial Boilers.

Steam Generating capacity A.	Required particulate matter B.	
Area upto 5 Km from Other than 'A' class Other than the periphery of I and Class-II town		
Less than 2 ton/hr.	800 mg/NM3	1200 mg/NM3
2 ton to 10 ton/hr.	500 mg/NM3	1000 mg/NM3
Above 10 ton to 15 ton/hr	350 mg/NM3	500 mg/NM3
Above 15 ton/hr	150 mg/NM3	150 mg/NM3

All emissions normalized to 12% carbon dioxide.

17. The industry shall ensure that the Hazardous Wastes generated from the premises are handled as per the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, without any adverse effect on the environment, in any manner.
18. The air pollution control equipments shall be kept at all time in good running condition and;

- (i) All failures of control equipments.
 - (ii) The emissions of any air pollutant into the atmosphere in excess of the standards lay down by the Board occurring or being apprehended to occur due to accident or other unforeseen act or event. 'Shall be intimated through fax to the concerned Regional Office as well as to the Director of Factories, Punjab, Chandigarh as required under rule 10 of the Punjab State Board for the Prevention and Control of Air Pollution Rules, 1983'.
19. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per hectare all along the boundary of the industrial premises.
20. The industry shall submit a site emergency plan approved by the Chief Inspector of Factories, Punjab as applicable.
21. The industry shall comply with the conditions imposed by the SEIAA/MOEF in the Environmental Clearance granted to it as required under EIA notification dated 14/9/06, if applicable.
22. 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.
23. 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.
24. The industry will install the separate energy meter for running pollution control devices and shall maintain record with respect to operation of air pollution control device so as to satisfy the Board regarding the regular operation of air pollution control device and monthly reading / record may be sent to the Board by the fifth of the following month.
25. The industry shall provide online monitoring system as applicable, for in stack emission and shall maintain the record of the same for inspection of the Board Officers.
26. The Board reserves the right to revoke the consent granted to the industry at any time, in case the industry is found violating the provisions of Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.
27. The industry shall comply with any other conditions laid down or directions issued in due course by the Board under the provisions of the Air (Prevention & Control of Pollution) Act, 1981.
28. Nothing in this consent 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 to under this or any other Act.
29. Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.
30. The industry shall dispose off its solid waste generated by the burning of fuel in an Environmentally Sound Manner within the premises/outside as approved by the Board, to avoid public nuisance and air pollution problem in the area.
31. The industry shall ensure that no air pollution problem or public nuisance is created in the area due to the discharge of emissions from the industry.
32. The industry shall provide adequate arrangement for fighting the accidental leakage/discharge of any air pollutant/gas/ liquids from the vessels, mechanical equipment's etc, which are likely to cause environmental pollution.
33. The industry shall not change or alter the manufacturing process(es) and fuel so as to change the quality/quantity of emissions generated without the prior permission of the Board.
34. 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.
35. The industry shall obtain and submit Insurance cover under the Public Liability Insurance Act, 1991.
36. The industry shall provide proper and adequate air pollution control arrangements for control emission from its fuel handling area, if applicable.

37. 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.
38. The industry shall not cause any nuisance/traffic hazard in vicinity of the area
39. The industry shall ensure that the noise & air emission from D.G. sets do not exceed the standards prescribed for D.G. sets by the Ministry of Environment & Forests, New Delhi.
40. The industry shall ensure that there will not be significant visible dust emissions beyond the property line
41. 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.
42. The Industry shall ensure that its production capacity does not exceed the capacity mentioned in the consent and shall not carry out any expansion without the prior permission / NOC of the Board.

B. SPECIAL CONDITIONS

1. The industrial shall comply with the conditions imposed in the Environmental Clearance issued to it under the EIA notification dated 14.09.2006.
2. The industry being a bulk waste generator of solid waste, shall ensure that bio-degradable waste shall be processed, treated and disposed of through composting or bio-methanation within the premises as far as possible, within 03 months and shall submit compliance of the same within 07 days thereafter.
3. The industry shall ensure the implementation of dynamic emission limit for dual flue stacks.
4. The industry shall install/operate online continuous effluent & stack emission monitoring systems and shall ensure the connectivity of the same with the server of PPCB & CPCB as per the directions issued by CPCB, New Delhi and shall ensure regular maintenance/ operation of the same with temper proof mechanisms having facilities for online calibration.
5. The promoter company shall comply with the provisions of Solid Waste Management Rules, 2016.
6. The industry shall ensure that the activities of unit does not create any nuisance in the surrounding areas and no public complaints are received.
7. This consent supersedes the earlier granted consent issued vide no. CTOA/Varied /BTI/2022/18070511 dated 09.05.2022.
8. The Consent is being issued to the industry based upon the documents/ information submitted by it alongwith the online application form. The Board would be at liberty to take penal action against the industry and its responsible/ concerned person(s) in case information/document is detected as incorrect/false/misleading at any point of time.
9. In case the industry fails to comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and/or any other environmental law applicable to the project and Rules, Circulars & Directions issued by the Board from time to time, action as deemed fit shall be taken against the industry.



24/09/2022

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Hpcl-mittal Energy Limited (guru Gobind Singh Refinery),Village Phullokari,taluka Talwandi Saboo,,Talwandi Sabo,Bathinda,151301

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(Kamal Singla)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



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PUNJAB POLLUTION CONTROL BOARD

Invest Punjab, PBIP, Udyog Bhawan, Sector 17, Chandigarh.

Website:- www.ppcb.gov.in

Office Dispatch No :

Registered/Speed Post

Date:

Industry Registration ID: R12BTI44706

Application No : 19705515

To,

Sanket Thapar
Hpcl-mittal Energy Limited, guru Gobind Singh Refinery Project, village Phullokari, taluka Talwandi Saboo,
District Bathinda.
Bathinda, Bathinda-151301

Subject: Grant Varied 'Consent to Operate' an outlet u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for discharge of effluent.

With reference to your application for obtaining Varied 'Consent to Operate' an outlet for discharge of the effluent u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974, you are, hereby, authorized to operate an industrial unit for discharge of the effluent(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate

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

Consent to Operate Certificate No.	CTOW/Varied/BTI/2022/19705515
Date of issue :	24/09/2022
Date of expiry :	31/03/2025
Certificate Type :	Varied
Previous CTO No. & Validity :	CTOW/Varied/BTI/2022/18070534 From:09/05/2022 To:30/09/2022

2. Particulars of the Industry

Name & Designation of the Applicant	Sanket Thapar, (Deputy General Manager)
Address of Industrial premises	Hpcl-mittal Energy Limited (guru Gobind Singh Refinery), Village Phullokari, taluka Talwandi Saboo,, Talwandi Sabo, Bathinda-151301
Capital Investment of the Industry	4245260.0 lakhs
Category of Industry	Red
Type of Industry	Oil Refinery
Scale of the Industry	Large
Office District	Bathinda
Consent Fee Details	Rs. 86,40,000/- through online vide R.no. SBINR12022012763913528 dated 27.01.2022 under Water Act, 1974 against the fixed assets of Rs. 4245759/-, which is adequate upto 31.03.2025.
Raw Materials(Name with quantity per day)	Crude Oil @33750Metric Tonnes/Day

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Products (Name with quantity per day)	LPG @1780Metric Tonnes/Day Naphtha @0Metric Tonnes/Day Gasoline @2980Metric Tonnes/Day ATF @1200Metric Tonnes/Day Kerosene @300Metric Tonnes/Day Diesel @11838Metric Tonnes/Day Sulphur @641Metric Tonnes/Day Coke @1695Metric Tonnes/Day Hexane @15Metric Tonnes/Day Poly Propylene @1400Metric Tonnes/Day Motor Turpentine Oil @75Metric Tonnes/Day Bitumen @1500Metric Tonnes/Day HDPE/LLDPE @3586Metric Tonnes/Day PP-Regular @974Metric Tonnes/Day PP-Impact @450Metric Tonnes/Day Benzene @237Metric Tonnes/Day Mixed Xylenes @483Metric Tonnes/Day Low Sulphur Fuel Oil @45Metric Tonnes/Day
By-Products, if any,(Name with quantity per day)	As per the application form
Details of the machinery and processes	As per documents appended with application
Details of the Effluent Treatment Plant	Trade Effluent @15096.0 KLD (410m3/hr+185 m3/hr & 34 m3/hr from ethanol unit as per its CTE granted) 1. ETP of capacity @ 500 KL/Hr consisting of - Primary Treatment Section : • American Petroleum institute (API) separators, • Tilted Plate interceptor (TPI) separator, • Diffused / Dissolved Air Flootation (DAF) system (having flash mixing tank, Flocculation tank, DAF tank and associated facilities). Secondary treatment section : • Sequential Batch Reactor (SBR) • Membrane Bio Reactor (MBR) 2. ETP of capacity 185 KL/Hr consisting of API – TPI – DAF – SBR – MBR – Outlet. Domestic Effluent - after treatment in STP sent to the SBR section of the existing ETP of capacity 500 KL/Hr
Mode of Disposal	Treated trade effluent & treated domestic effluent (after existing ETP of capacity 500 KL/Hr) - onto land for planation within GGSR premises. Treated trade effluent (after ETP of capacity 185 KL/Hr) - To be reused back into process as cooling tower makeup water.
Standards to be achieved under Water(Prevention & Control of Pollution) Act, 1974	As prescribed by the CPCB/Board/ MoEF&CC



24/09/2022

(Kamal Singla)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

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Endst. No.:

Dated:

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

1. Senior Environmental Engineer, Zonal Office, Bathinda.
2. Environmental Engineer, Regional Office, Bathinda, with the request to personally ensure that the industry shall make the compliance of EC conditions & other special conditions within stipulated time period.



24/09/2022

(Kamal Singla)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



TERMS AND CONDITIONS

A. GENERAL CONDITIONS

1. This consent is not valid for getting power load from the Punjab State Power Corporation Limited or for getting loan from the financial institutions.
2. The industry shall apply for renewal/further extension in validity of consent atleast two months before expiry of the consent.
3. The industry shall ensure that the effluent discharging through the authorized outlet shall confirm to the prescribed standards as applicable from time to time.
4. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per hectare all along the boundary of the industrial premises.
5. The achievement of the adequacy and efficiency of the effluent treatment plant/pollution control devices/re-circulation system installed shall be the entire responsibility of the industry.
6. The industry shall ensure that the Hazardous Wastes generated from the premises are handled as per the provisions of the Hazardous Wastes(Management, Handling and Trans boundary Movement) Rules, 2008 as amended time to time , without any adverse effect on the environment, in any manner
7. The responsibility to monitor the effluent discharged from the authorized outlet and to maintain a record of the same rests with the industry. The Board shall only test check the accuracy of these reports for which the industry shall deposit the samples collection and testing fee with the Board as and when required.
8. The industry shall submit balance sheet of every financial year to the concerned Regional Office by 30th June of every year.
9. The industry shall submit a yearly certificate to the effect that no addition/up-gradation/ modification/modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.
10. During the period beginning from the date of issuance and the date of expiration of this consent, the applicant shall not discharge floating solids or visible foam.
11. Any amendments/revisions made by the Board in the tolerance limits for discharges shall be applicable to the industry from the date of such amendments/revisions.
12. The industry shall not change or alter the manufacturing process(es) so as to change the quality and/or quantity of the effluents generated without the written permission of the Board.
13. Any upset conditions in the plant/plants of the factory, which is likely to result in increased effluent and/or result in violation of the standards lay down by the Board shall be reported to the Environmental Engineer, Punjab Pollution Control Board of concerned Regional Office immediately failing which any stoppage and upset conditions that come to the notice of the Board/its officers, will be deemed to be intentional violation of the conditions of consent.
14. The industry shall provide terminal manhole(s) at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking samples.
15. The industry shall for the purpose of measuring and recording the quantity of water consumed and effluent discharged, affix meters of such standards and at such places as approved by the Environmental Engineer, Punjab Pollution Control Board of the concerned Regional Office.
16. The industry shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.
17. The industry shall provide online monitoring equipment^{1/2}s for the parameters as decided by concerned Regional Office with the effluent treatment plant/air pollution control devices installed, if applicable.
18. The pollution control devices shall be interlocked with the manufacturing process of the industry.
19. The authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board.
20. The industry shall comply with the conditions imposed by the SEIAA / MOEF in the environmental clearance granted to it as required under EIA notification dated 14/9/06, if applicable.
21. The industry shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.
22. The industry shall not use any unauthorized out-let(s) for discharging effluents from its premises. All unauthorized outlets, if any, shall be connected to the authorized outlet within one month from the date of issue of this consent.

23. The industry shall make necessary arrangements for the monitoring of effluent being discharged by the industry and shall monitor its effluents:-
- (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.
24. The industry shall provide electromagnetic flow meters at the source of water supply, at inlet/outlet of effluent treatment plant within one month and shall maintain the record of the daily reading and submit the same to the concerned Regional Office by the 5th of the following month.
25. The Board reserves the right to revoke this consent at any time in case the industry is found violating any of the conditions of this consent and/or the provisions of Water (Prevention & Control of Pollution) Act, 1974 as amended from time to time.
26. 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.
27. The consent does not authorize or approve the construction of any physical structures or facilities for undertaking of any work in any natural watercourse.
28. Nothing in this consent 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.
29. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of septic tank.
30. 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.
31. The industry shall ensure that no water pollution problem is created in the area due to discharge of effluents from its industrial premises.
32. 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.
33. 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 to prevent any pollutants from such materials from entering into natural water.
34. The industry shall re-circulate the entire cooling water and shall also re-circulate/reuse to the maximum extent the treated effluent in processes
35. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of re-circulation system/ effluent treatment plant.
36. The industry shall make proper disposal of the effluent so as to ensure that no stagnation occurs inside and outside the industrial premises during rainy season and no demand period.
37. Where excessive storm water 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.
38. The industry shall submit a detailed plan showing therein the distribution system for conveying waste-water for application on land for irrigation along with the crop pattern for the year.
39. The industry shall ensure that the effluent discharged by it is toxicity free.
40. The industry shall not irrigate the vegetable crops with the treated effluents which are used/ consumed as raw.
41. Drains causing oil & grease contamination shall will be segregated. Oil & grease trap shall be provided to recover oil & grease from the effluent.

42. 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, and the monitoring shall be submitted to the Environmental Engineer of the concerned Regional Office by the 5th of every month.
43. The industry shall ensure that its production capacity & quantity of trade effluent do not exceed the quantity mentioned in the consent and shall not carry out any expansion without the prior permission/NOC of the Board.

B. SPECIAL CONDITIONS



1. The industrial shall comply with the conditions imposed in the Environmental Clearance issued to it under the EIA notification dated 14.09.2006.
2. The industry being a bulk waste generator of solid waste, shall ensure that bio-degradable waste shall be processed, treated and disposed of through composting or bio-methanation within the premises as far as possible, within 03 months and shall submit compliance of the same within 07 days thereafter.
3. The industry shall get the effluent monitoring of the ETP of capacity 185 KL/Hr, carried out by the Board, within 01 month.
4. The industry shall recycle the entire quantity of effluent after treatment in ETP of capacity 185 KL/Hr, within its process(es), at all times.
5. The industry shall install CCTV cameras on the ETP of capacity 185 KL/Hr.
6. In case, the untreated effluent of Refinery Plant crosses 450 KL/hr, then the Ethanol Plant shall install separate ETP as per undertaking dated 03.08.2022 submitted by it.
7. The industry shall install/operate online continuous effluent & stack emission monitoring systems and shall ensure the connectivity of the same with the server of PPCB & CPCB as per the directions issued by CPCB, New Delhi and shall ensure regular maintenance/ operation of the same with temper proof mechanisms having facilities for online calibration.
8. The industry shall maintain its green belt as per the Karnal technology and shall provide proper pipeline network for scientific distribution of its treated effluent, at all times.
9. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of re-circulation system / effluent treatment plant and during no demand period.
10. The entire responsibility of adequacy and efficacy of the treatment & disposal of effluent, shall be of the industry.
11. The industry shall obtain permission from the PWRDA for the abstraction of ground water and shall comply with guidelines issued by it from time to time.
12. The industry shall not discharge the effluent into any drain/choe/nallah/river/inland surface water under any circumstances in any case.
13. The industry company shall ensure that there is no obstruction to natural flow of rainwater due to activity of the industry.
14. The promoter company shall comply with the provisions of Solid Waste Management Rules, 2016.
15. The industry shall ensure that the activities of unit does not create any nuisance in the surrounding areas and no public complaints are received.
16. This consent supersedes the earlier granted consent issued vide no. CTOW/Varied/BTI/2022/18070534 dated 09.05.2022.
17. The Consent is being issued to the industry based upon the documents/ information submitted by it alongwith the online application form. The Board would be at liberty to take penal action against the industry and its responsible/ concerned person(s) in case information/document is detected as incorrect/false/misleading at any point of time.
18. In case the industry fails to comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and/or any other environmental law applicable to the project and Rules, Circulars & Directions issued by the Board from time to time, action as deemed fit shall be taken against the industry.



24/09/2022

(Kamal Singla)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



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Monthly Average AAQMS Data Of GGSR for Apr-2023 to Sept-2023

Parameter		SO2	NO2	PM10	PM2.5	BENZENE	ETHYL BENZENE
Station No.	Month	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
AAQMS 1	Apr-23	6.41	26.85	139.40	50.91	1.83	1.53
AAQMS 2		14.34	15.19	112.35	38.59	2.35	0.56
AAQMS 3		10.84	21.87	107.08	48.70	1.73	0.41
AAQMS 4		8.77	27.50	108.16	31.13	2.39	1.31
AAQMS 5		11.18	20.02	130.70	53.72	2.11	0.55
Min		6.41	15.19	107.08	31.13	1.73	0.41
Max		14.34	27.50	139.40	53.72	2.39	1.53
Avg		10.31	22.29	119.54	44.61	2.08	0.87
CPCB Limit		80	80	100	60	5	
AAQMS 1	May-23	7.39	33.32	140.61	64.23	1.75	1.53
AAQMS 2		11.27	19.74	109.54	48.85	2.16	1.25
AAQMS 3		9.38	21.32	108.33	57.78	1.48	0.37
AAQMS 4		7.87	27.94	113.49	31.30	2.23	1.31
AAQMS 5		10.09	19.71	143.80	67.66	1.70	2.03
Min		7.39	19.71	108.33	31.30	1.48	0.37
Max		11.27	33.32	143.80	67.66	2.23	2.03
Avg		9.20	24.40	123.16	53.96	1.86	1.30
CPCB Limit		80	80	100	60	5	
AAQMS 1	Jun-23	6.73	37.77	122.00	50.53	2.33	1.15
AAQMS 2		6.63	24.13	83.79	37.04	2.26	1.69
AAQMS 3		7.83	34.30	70.76	37.48	1.30	1.99
AAQMS 4		8.19	27.97	95.42	37.87	1.99	1.56
AAQMS 5		7.24	37.13	81.28	36.08	1.54	2.99
Min		6.63	24.13	70.76	36.08	1.30	1.15
Max		8.19	37.77	122.00	50.53	2.33	2.99
Avg		7.32	32.26	90.65	39.80	1.88	1.88
CPCB Limit		80	80	100	60	5	
AAQMS 1	Jul-23	8.12	26.36	65.70	32.14	2.72	0.73
AAQMS 2		5.95	25.04	47.30	20.30	2.49	1.86
AAQMS 3		7.61	26.02	48.87	27.53	1.22	1.71
AAQMS 4		6.96	27.95	62.85	18.27	2.24	1.47
AAQMS 5		7.92	19.43	59.92	32.80	1.54	2.58
Min		5.95	19.43	47.30	18.27	1.22	0.73
Max		8.12	27.95	65.70	32.80	2.72	2.58
Avg		7.31	24.96	56.93	26.21	2.04	1.67
CPCB Limit		80	80	100	60	5	

AAQMS 1	Aug-23	7.43	26.90	96.26	35.57	3.60	0.78
AAQMS 2		5.53	24.87	82.92	23.51	2.15	1.47
AAQMS 3		10.92	16.80	101.97	25.67	1.66	0.81
AAQMS 4		9.13	27.19	114.39	30.45	2.28	1.21
AAQMS 5		9.16	18.76	118.02	28.13	0.78	0.33
Min		5.53	16.80	82.92	23.51	0.78	0.33
Max		10.92	27.19	118.02	35.57	3.60	1.47
Avg		8.44	22.90	102.71	28.66	2.09	0.92
CPCB Limit		80	80	100	60	5	
AAQMS 1	Sep-23	7.94	31.33	79.43	28.65	2.44	0.76
AAQMS 2		6.33	25.07	82.72	27.91	2.63	1.86
AAQMS 3		6.41	16.32	69.98	32.40	1.76	0.94
AAQMS 4		9.47	26.68	81.11	32.98	2.34	0.19
AAQMS 5		9.62	15.91	75.22	27.79	0.89	0.34
Min		6.33	15.91	69.98	27.79	0.89	0.19
Max		9.62	31.33	82.72	32.98	2.63	1.86
Avg		7.95	23.06	77.69	29.95	2.01	0.82
CPCB Limit		80	80	100	60	5	

NOTE :

Particulate Matter (PM 10) is already higher in ambient air quality baseline data even before the start of the refinery operation. Its value varies from 252.5 µg/m³ to 325.7 µg/m³ as per baseline data for year 2010.

Particulate Matter (PM 2.5) is already higher in ambient air quality baseline data even before the start of the refinery operation. Its value varies from 101.8 µg/m³ to 194 µg/m³ as per baseline data for year 2010.

Annexure-III

Activities undertaken for improving socio-economic condition in the surrounding areas from Apr'23 to Sep'2023		
CSR Pillars	Beneficiaries	Remarks
Community Healthcare & Hygiene	5896	Medical camps; Support of nutrition Kits to TB patients; Support for setting up of one stop Disabled Center; Road cleaning and Housekeeping; Support of Mobile Toilets; Support to Drug de addiction Centre and Bal Bhawan; Awareness camp on Menstrual Hygiene for adolescent Girls; Promoting and Preventive Healthcare Activities
Livelihood and Sustainable Development	4200	Women Empowerment initiatives; Women Entrepreneurship initiatives
Total	10096	





Photographs for activities undertaken for improving socio-economic condition in the surrounding areas from Apr'23 to Sep'2023

Livelihood and Sustainable Development (Women Empowerment initiatives)	Livelihood and Sustainable Development (Women Entrepreneurship initiatives)
	
Community Healthcare & Hygiene (Awareness camp on Menstrual Hygiene for adolescent Girls)	Community Healthcare & Hygiene (Promoting Sports among Youth)
	

Annexure-IV

Activities undertaken for community welfare including eco-developmental measures in the surrounding areas from Apr'2023' to Sep'23		
CSR Pillars	Beneficiaries	Remarks
Education Development	6933	Setting up of STEM Labs in Govt. schools; Distribution of Bicycles to girls Students; Infrastructure facility support to education institutions; Coaching for Underprivileged Students for higher studies in Engineering institutions; Library books for Govt. schools
Total	6933	

Photographs for activities undertaken for community welfare including eco-developmental measures

Education Development (Setting up of Stem Labs in Govt. schools)	Education Development (Distribution of bicycles to Girls students)
	
Education Development (Infrastructure facility support to education institutions)	Community infrastructure & Environment (Coaching for Underprivileged Students for higher studies in Engineering institutions)
	

CoOrdinator Chd

From: Narendra Verma
Sent: 23 May 2023 18:35
To: ecompliance-nro@gov.in
Cc: Jaspal Saini; M B Gohil; Anshu Sharma; Sumit Pratap Singh Sengar; Sanket Thapar; ecompliance-nro@gov.in; CoOrdinator Chd
Subject: EC Compliance Report for GGSPAP, Bathinda, Oct 2022 to Mar 2023
Attachments: Environment compliance report Oct 2022 to Mar'23.pdf

*Jad 4:20 PM
1/06/23*

Dear Sir / Ma'am,

Please find attached EC (Environment Clearance) compliance report for the period Oct 2022 to Mar 2023, for the conditions stipulated in the Environment Clearance vide letter no. : J-11011/266/2017-IA-II (I), dated 12 Dec 2017 and subsequent amendment dated 07 Dec 2021.

Please send us the acknowledgement.

Best Regards,



Narendra Verma | DGM-Petrochemical Process
HPCL-Mittal Energy Ltd

Village - Phullokhari | Taluka - Talwandi Saboo |
Bathinda | INDIA - 151301

T +91-1655-272807 | M +91-8054100989

Email: narendra.verma@hmel.in

www.hmel.in



Date: 18st May 2023

Letter No.: 9112-000-GGSPAP-009-2023-061

To,
The Director,
Minister of Environment Forests & Climate Change,
Northern Regional Office,
Bays No. 24-25, Sector 31-A,
Dakshin Marg,
Chandigarh-160030

Subject: Environment Compliance report (Oct 2022 to March 2023) of Polymer Addition Project at Guru Gobind Singh Refinery Complex in District Bathinda (Punjab) by HPCL – Mittal Energy Ltd (HMEL).

Your Ref. No.: Environment Clearance Letter No.: J-1101/266/2017-IA-II (I) dated 12 Dec 2017

Environment Clearance Letter No.: J-1101/266/2017-IA-II (I) dated 07 Dec 2021

Dear Sir,

Please find enclosed compliance report for the period October 2022 to March 2023, for the conditions stipulated in Environment Clearance of Guru Gobind Singh Polymer Addition Project, at Guru Gobind Singh Refinery Complex.

Best Regards,

Narendra Verma

Deputy General Manager - Petrochemical Project

Narendra Verma

Dy. General Manager-Petrochemical Process

Guru Gobind Singh Refinery

(A Unit of HPCL-Mittal Energy Limited)

Village-Phulokhari, Taluka Talwandi Sabo

Bathinda-151301, Punjab, India

Enclosure: Environment Compliance report (Oct 2022 to March 2023) of Polymer Addition Project at Guru Gobind Singh Refinery.

Annexure I: Copy of Air CTO and Water CTO(Consent to operate)

Annexure II: Month wise data of ambient air quality (for the period of Oct'2022 to Mar'23)

Annexure III: Activities undertaken for social upliftment in the nearby villages

Annexure IV: Eco-development measures including community welfare measures in the project area.

Annexure V: Acknowledgement copy of last Six monthly EC compliance report submitted to MoEF&CC, Regional office, Chandigarh. For the period of Apr'22 to Sept'22.

HPCL-Mittal Energy Limited



Date: 18st May 2023

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To,
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Narendra Verma

Deputy General Manager - Petrochemical Project

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