# भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड

भारत सरकार का उपक्रम

आई.एस.ओ. 9001:2015, आई.एस.ओ. 14001:2015, आई.एस.ओ. 45001:2018 एवं आई.एस.ओ. 50001:2018 प्रमाणित रिफाइनरी



### BHARAT PETROLEUM CORPORATION LIMITED

A Govt. of India Enterprise ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 AND ISO 50001:2018 CERTIFIED REFINERY

BPCL/MOEF/EC/2025/01

Dt: 01/12/2025

To,

Deputy Director General of Forests (C),

Ministry of Environment, Forests & Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, BHOPAL – 462 016 (MP)

SUB : Six Monthly Compliance Report of Bharat Petroleum Corporation Limited, Bina Refinery.

#### Ref :

S. No.	Name	MoEFCC File No.	Date
1	6 MMTPA Grassroot Refinery including Captive Power Plant (CPP) & Marketing Terminal (by BPCL) of M/s BORL at village - Agasode, Tehsil: Bina, Distt.: Sagar (M.P.)	J-11011/21/1994- IA II (I)	16 <sup>th</sup> Feb., 1995
2	Bina Refinery Project of M/s BORL at village- Agasode, Tehsil: Bina, Distt.: Sagar (M.P.)	11325554.00	20 <sup>th</sup> Mar., 2009
3	Expansion of Refinery (from 6 MMTPA to 7.5 MMTPA crude processing) by debottlenecking of M/s BORL at village-Agasode, Tehsil: Bina, Distt.: Sagar (M.P.)		28 <sup>th</sup> Nov., 2014
4	Expansion of Refinery Capacity from 7.5 to 7.8 MMTPA of M/s BORL at village -Agasode, Tehsil: Bina, Distt.: Sagar (M.P.) – Amendment in EC	J-11011/135/2013-	15 <sup>th</sup> May, 2015
5	Expansion of Refinery capacity from 7.8 MMTPA to 12 MMTPA with Petrochemical Complex of M/s Bharat Oman Refineries Limited at Agasode village, Bina tehsil, Madhya Pradesh	IA II (I)	28 <sup>th</sup> Nov., 2022
6	Expansion of Refinery capacity from 7.8 MMTPA to 12 MMTPA with Petrochemical Complex of M/s Bharat Oman Refineries Limited at Agasode village, Bina tehsil, Madhya Pradesh – Transfer of EC (From M/s BORL to M/s BPCL)		25 <sup>th</sup> Oct., 2023
7	Expansion of Refinery Capacity from 7.8 MMTPA to 12 MMTPA with Petrochemical Complex at Agasode Village, Bina tehsil, Madhya Pradesh by M/s Bharat Petroleum Corporation Limited - Amendment in EC	J-11011/319/2024- IA-II(I)	01 <sup>st</sup> Mar., 2025

बीना रिफाइनरी : बीना - ४७०१२४, जिला - सागर, मध्यप्रदेश, भारत फॉन : ०७५८०-२२६०००, २७६०० रिजस्टर्ड ऑफिस : भारत भवन, ४ & ६, करीमभॉय रोड, बेलार्ड इस्टेट, मुंबई - ४०० ००१

# भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड

भारत सरकार का उपक्रम

आई.एस.ओ. 9001:2015, आई.एस.ओ. 14001:2015, आई.एस.ओ. 45001:2018 एर्च आई.एस.ओ. 50001:2018 प्रमाणित रिफाइनरी



### BHARAT PETROLEUM CORPORATION LIMITED

A Govf. of India Enterprise ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 AND ISO 50001:2018 CERTIFIED REFINERY

Dear Sir,

With reference to above subject, we hereby submit our six-monthly compliance report for period of April 2025 - September 2025 on Environment Clearance's granted for BPCL, Bina Refinery.

Thanking You,

Yours Faithfully, For Bharat Petroleum Corporation Limited,

(Anil T Medhe) GM-HSSE

Encl: As above

### Copy to:

- The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi- 110032
- 2. Regional Office, M.P. Pollution Control Board, Sagar

#### SIX MONTHLY COMPLIANCE REPORT

OF

## ENVIRONMENT CLEARANCE ISSUED BY MOEF & CC, NEW DELHI

VIDE LETTER NO.: J-11011/135/2013-IA II (I), Dtd: 28th Nov, 2022 & 25th Oct, 2023

FOR

EXPANSION OF REFINERY CAPACITY FROM 7.8 MMTPA TO 12 MMTPA WITH PETROCHEMICAL COMPLEX OF M/S. BHARAT PETROLEUM CORPORATION LIMITED AT AGASODE VILLAGE, BINA TEHSIL, MADHYA PRADESH

S. No.	EC Co	nditions			Compliance status as furnished by the project proponent	
Α	Speci	fic Conditions			The state of the s	
1		nas reference to your o eptember, 2022 for en ct.			Noted	
2	from facilit	osal seeking environm 7.8 MMTPA to 12 M	ental clearance MTPA with Pet Agasode, Tehsi	for expansion rochemical Co l Bina, District	ge has examined the of Refinery capacity mplex and associated Sagar, State Madhya	
3	Petro Notifi	oject/activity are listed -chemical complexes of ication under category aisal Committee (EAC).	of Schedule of E 'A' and are app	nvironment Im	Noted	
4	The d	letails of products and	capacity as und	er:		
	S. No.	Unit	Existing Capacity (MMTPA)	Proposed Capacity (MMTPA)	Total Capacity after expansion (MMTPA)	Noted
	1	Ethylene Cracker Unit	0	1.2	1.2	
	2	Hydrocracker Unit	2.623	0.927	3.55	
	3	LLDPE HDPE Swing Unit	0	0.650	0.650	
	4	Butene-1 Unit	0	0.050	0.050	
	5	CDU/VDU Unit	7.8	4.2	12	*
	6'	Diesel Hydrotreater	2.372	0	2.372	
	7	CCR Reformer Unit	0.835	0	0.835	
	8	Isomerization Unit	0.633	0	0.633	
	9	SWS I & II Units	161 & 59 TPH	94 TPH	314 TPH	
	10	Delayed Coker Unit	1.822	0	1.822	
	11	ATF Merox Unit	0.569	0	0.569	
	12	Naphtha Hydrotreater	1.55	0	1.55	
	13	KeroHydro- desulphurization Unit	0.6	0	0.6	

No.	EC Co	nditions					Compliance status as furnished by the project proponent
	14	HDPE Unit	0	0.500	0.50	0.	
	15	Hydrogen Unit	0.098	0	0.09	8	
	16	Sulphur Recovery Unit	3 x 243 MTPD	0	3×2	43 MTPD	
	17	Amine Regeneration Unit	468 TPH	106 TPH	574	ТРН	
	18	LPG Treating Unit	0.277	0.09	0.31	7	
	19	Bitumen Blowing Unit	0a	0.3	0.3		
	20	Polypropylene Unit	0	0.550	0.55		Noted
	dispa	tchterminal shall be i					
	1	ict Pattern:				1	
	S. No.	Product/ By- product		Existing Quantity (KTPA)	Proposed Quantity (KTPA)	Total Quantity (KTPA)	Noted
	1	LPG		344	6	350	-
	2	Bitumen		0	300	300	
	3	Sulphur		152	0	152	
	4	Benzene		0	300	300	
	5	BS VI Diesel		3641	1459	5100	
	6	Mineral Turpen (MTO)	tine Oil	0	100	100	
	7	Naphtha		189	-89	100	1
	8	Petcoke		523	2	525	1
	9	Polypropylene		0	570	570	1
	10	Toluene		0	180	180	
	11	Propylene		0	100	100	
	12	Pyrolysis Fu (PFO)/Carbon Black Stock (CBFS)		0	50	50	

S. No.	EC Conditions					Compliance status as furnished by the project proponent
	13 BS VI Gasolii	ne	1242	258	1500	
	14 ATF+SKO		1118	-118	1000	
	15 PE(HDPE+LL	DPE)	0	1200	1200	
	16 Mixed Xylen	e	0	100	100	
5	MoEF&CC has iss capacity 7.8 MMT 15/05/2015. Certif obtained from Inte 1/2022(Env.) date submitted to IRO, 07/09/2022 for par	PA vide File Nied Compliand grated Region d 10/08/2022 MoEFCC, File	o. J-11011/135, ce report of ex al Office, MoEF 2. Action Taker No. BORL/MoE	/2013-IA II ( isting ECs ha CC, vide File n Report ha	Noted	
6	Standard Terms of 11011/135/2013/I that litigation is per of Judicial Magistry July 2018 on Zero Li in October 2017. A Jabalpur for quashi for admission/inter	A II (I) dated 8 nding against to the Bina, filed quidDischarge petition is loong of complain	th February 202 the project prop by M.P. Pollutio in regard to ins dged in the Hor	2. It was info conent in the on Control Bo pection carri o'ble High Co	Noted	
7	Public Hearing for MadhyaPradesh Po Gram Panchayat Bl Sagar chaired by A raised during the p	ollution Contro nawan Parisar, dditionalCollec	ol Board (MPPC) Village-Agasod, ctor, Sagar Distr	B) on 12/08/ Tehsil-Bina, rict. The mai	2022 at District- n issues	Noted
	Regarding Health upgradation ofsch will continue to can development in sur proposes to sper Education and skill proposed project u	ry outvarious rounding village ad approxima development	of potable wat CSR & CER acti ges under the pr tely Rs 12 Cr	er supply, In vities in futu oposed proje towards	dustry ure for ect. PP Health,	

S. No.	EC Conditions	Compliance status as furnished by the project proponent
. No.	Regarding employment, PP informed that during the construction phase, average temporary manpower requirement is about 5000. During operational phase, employment of approximately 400 persons directly and around 1500 persons indirectly is envisaged.  Regarding BPCL shall make more efforts to preserve the environment.  Domestic waste accumulated near refinery shall be removed. BPCL shallstart planting of trees, PP informed that As part of the project, about Rs 10 Crhave been earmarked for environmental activities as mentioned - Rs 1 Cr. has been allocated towards Additional Plantation, Rainwater Harvesting & Pond Rejuvenation etc., Rs 1 Cr. For Awareness workshops/programs for solar electrification., Rs. 3 Cr for Dust suppression facilities within complex as well as surrounding areas., Rs. 5 cr. towards mitigation measures for environmental pollution for surrounding areas/villages of BPCL Complex. The CER expenditure will be incurred during the plant construction/ commissioning phase (5 years maximum).	Compliance status as furnished by the project proponent
	Additionally, CSR budget will be allocated as per Govt. guidelines.  Regarding School Admission shall be given to children of poor villagers. Villagers requested to open a school in nearby area. BPCL shall utilize CSR fund for benefit of people, PP informed that Rs. 2 Crores has been allotted for Education and Skill Development for local youths / peoples & expansion of DAV School under CER activities.	
	Regarding Prior information of public hearing was not given topeople within 5 km radius area, PP informed that Public notice was issued in 2 nos. of newspapers on 5th July 2022 (36 Days in advance). Project information reports were kept at 05 locations at offices of District Industries Department, Zilla Panchayat, Agasod Gram Panchayat, regional office of MP Pollution Control Board	

S. No.	EC Condi	tions		Compliance status as furnished by the project proponent
	(MoEFC) publishe informat	and Ministry of Environment, Forest  as perthe guidelines. Additionally, the part of the website of MPPCB. Also, prior tion was disseminated in surrounding villations of the website of the surrounding villations.	project report was to public hearing,	
	village is informed various of has been hygiene, activities villages earmark facilities	ng no arrangement of water in Agaso adopted by BPCL. Still there is no developed that BinaRefinery has spent close to CSR initiatives over the years. In Agasod was spent towards education, sports developed water and livelihood related activities. Place will be continued as on-going process including Agasod village and Rs. 8 edfor drinking water / supporting infrastration in surrounding villages under CER activities village, as well.	Rs 110 Cr under village approx. 2 Cr oment, healthcare, Pconfirms that CSR in the surrounding Crores has been ructure / transport	
	pertains	ng lands were forcefully taken, PP inform to personal matter of an individual w Refinery or proposed project and falls un tration.	rith no linkage of	
	CER acti	vities with budget allocation as per Publi	c Consultation	
	S. No.	Activities as per public consultation	AllocatedBudget (In Rs. Lakh)	. • 200 Lakhs has already been invested in Development of Green belt.
	1.	Education and Skill Development for Local Youths/ peoples & Expansion of DAV School	200.0	

S. No.	EC Cond	litions		Compliance status as furnished by the project proponent
	2.	Abatement in environmental pollution for surrounding areas/villages of BPCL Complex	500.0	
	3,	Additional Plantation, Rainwater Harvesting &Pond Rejuvenation etc.	100.0	
	4.	Healthcare Facilitates (Such as Dispensaries &Super-Specialty Hospitals for Villagers	1000.0	
	5.	Dust suppression facilities within complex as wellas surrounding areas	300.0	
	6.	Support in Infrastructure / Transport facility / Surrounding development within 10 kms radius of Proposed Petrochemical Complex	100.0	
	7.	Awareness workshops/programs for solarelectrification and solid waste management	100.0	
	8.	Drinking Water Facilities for surrounding villagers	700.0	
	Tota	al Expense (Rs. in Lakhs)	3000.0	
	Tota	al Expense (Rs. in Crores)	30.0	
8	Total plant area after expansion will be 1015 Ha. No will be acquired for the expansion project as the sal within existing plant premises. Out of the total preciares i.e. 290 Ha greenbelt is already developed. It is greenbelt will be developed in collaboration will be partment. This would make the total greenbelt at the project area. The estimated project cost is Rs. 3500		ame will be done plant area 1015 . Additional 90 Ha vith State Forest area as 37.43% of	90 Ha green belt is already developed in the Forest Land in Kanjia Village (25Km from Refinery) in collaboration with Madhya Pradesh Forest Department. 1 lakh saplings planted in July-2024.

S. No.	EC Conditions	Compliance status as furnished by the project proponent
	costof EMP would be Rs. 510.6 Crores and recurring cost for EMP would be Rs. 2.8 Crores per annum. Industry proposes to allocate Rs. 30 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 1900 persons as direct (400) & indirect (1500).	•5
9	There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors within 10 km distance. There are no Reserve forests/protected forests within 10 km distance. Betwa river is located ata distance of 4.5 Km in west direction.	Noted
10	Ambient air quality monitoring was carried out at 8 locations during Januaryto April 2022 and the baseline data indicates the ranges of concentrations as: PM10 (65-76 μg/m³), PM2.5 (20-40 μg/m³), SO2 (15-23 μg/m³) and NO2 (20-26μg/m³). AAQ modelling study for point source emissions indicates that themaximum incremental GLCs after the proposed project would 28.4 μg/m³ and 44.9 μg/m³ with respect to SO <sub>2</sub> and NO <sub>x</sub> . The resultant concentrations are withinthe National Ambient Air Quality Standards (NAAQS).	Noted
11	Total fresh water requirement after expansion will be 94440 m³/day, out ofwhich 63240 m³/day will be used for expansion of refinery with petrochemical complex. Fresh water will be met from Betwa river. NOC has been obtained fromWater Resources Division vide letter no. 14/2006/134 dated 06.03.2019. Existing effluent generation from refinery is 9000 m³/day which is treated through EffluentTreatment Plant. Additional proposed effluent generation will be 6240 m³/day which will be treated through new Effluent Treatment Plant. Domestic waste waterwill be treated in STP having 360 KLD capacity. The plant will be based on Zero Liquid Discharge system and treated effluent will not be discharged outside the factory premises.	Compliance will be ensured during execution of project.
12	Total power requirement of refinery cum petrochemical complex afterexpansion will be 350 MW (Existing 100 MW and Proposed 250 MW for expansion)which will be sourced from existing co-generation	

S. No.	EC Conditions	Compliance status as furnished by the project proponent
	power plant and State Grid. NOCfor power requirement from State Grid has been obtained vide letter no. 04- 01/CRZ/CS-10-W/6876 dated 10/03/2022. Three numbers of CFBC boilers each of275 TPH and one Utility Boiler of 160 TPH capacity are there in existing refinery. Two Utility Boilers of 180 TPH each will be installed in the proposed project. A stack of height of 100 m will be installed with the proposed boilers for controllingthe particulate emissions within the statutory limit of 50 mg/Nm³. Industry will install 6.5 MW DG set, which will be used as standby during power failure and adequate stack height will be provided as per CPCB norms to the proposed DG sets.	Compliance will be ensured during execution of project.
13	Details of Process emissions generation and its management	
	The SOx emission of the existing refinery is 29.25 TPD. There will be additional 2.15 TPD SOx emission from the refinery expansion and Petrochemical complex. The overall SOx emission post expansion cum Petrochemical complex will be 31.4 TPD. However, below mitigation measures will be followed to control the process emissions:	
	Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.	Compliance will be ensured during execution of project.
	A stack height of 100 meters for utility boilers will be installed for controlling the particulate emissions.	
	Low NOx burners will be used in all process heaters, furnaces and boilers.	
	Low Sulphur Fuel Oil and Fuel Gas will be used as fuel in Process firedheaters and Boilers.	
	Adequate stacks height will be provided for better dispersion of flue gases. Online stack analyzers for monitoring of SOx, NOx, CO and PM emissions from furnaces/boilers.	
	Installation of internal floating roof with double seals in all Class- A tanksfor reduction of fugitive emissions.	

S. No.	EC Conditions	Compliance status as furnished by the project proponent
	Provision of mechanical seals in all the hydrocarbon pumps for reduction offugitive emissions.	
	LDAR surveys will be carried out periodically.	
14	Details of Solid waste/ Hazardous waste generation and its management	
	Used Lubricating oil will be collected in metal drums kept in secured area and will be recycled/disposed through authorized recyclers.	
	Discarded containers/barrels/ liners contaminated with hazardous waste-Will be disposed as per Hazardous Waste Rules, 2016.	
	Spent catalyst will be disposed through authorized recyclers.	
	Hazardous waste and salt from ZLD plant from proposed project will bedisposed off to nearest Treatment, Storage and Disposal Facility (TSDF).	Compliance will be ensured during execution of project.
15	Oily chemical sludge will be routed to Delayed Coker Unit (DCU)/bio- remediated/co-processed.	
	Salts from ZLD plant will be disposed to nearest TSDF facility.	
15	Total land of 1015 Hectares (Refinery – 774 Ha and Bina Dispatch Terminal 241 Ha) is under possession of the company. No additional land is required forproposed expansion of refinery with petrochemical complex.	Noted
16	The proposal was earlier considered by the EAC (Ind-2) in its meeting (ID:IA/IND2/13342/26/09/2022) held during 26-28 <sup>th</sup> September 2022 wherein EAC deferred the proposal for want of additional information. After submission ofADS reply by Project Proponent, proposal was again considered in EAC meeting (Meeting ID: IA/IND2/13360/20/10/2022) held on 20 <sup>th</sup> October, 2022 in the Ministry, wherein the project proponent and the accredited Consultant M/s. Engineers India Limited (NABET certificate no. NABET/EIA/1922/RA0189_Rev01 and validity 22/11/2023), presented the case under A category.	Noted
17	During deliberations, the committee was satisfied with the response of the PP against the additional details sought. Further, EAC discussed following issues:	Noted

S. No.	EC Conditions	Compliance status as furnished by the project proponent
	PP informed that after considering the water conservation method, they have reduced the water requirement by 7% (94440 m3/day) through various optimization measures.	Noted
	PP informed that by taking control measures such as maximizing low Sulphur Fuel firing, Installing modern Low NO <sub>x</sub> Burners for Crackers Heaters & Utility Boilers/CDU VDU, stack heights shall be increased for Utility Boilers, Cracker Heaters and CDU/VDU unit heaters, incremental GLC of SO2 has been reduced from 28.4 ½g/m³ to 5.94 ½g/m³ and NOx has been reduced from 38.3 ½g/m³ to 19.4 ½g/m³.	Shall be complied.
	The committee was satisfied with the response provided by PP on aboveinformation.	
18	The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revokedat the risk and cost of the project proponent.	Noted
19	The Committee noted that the EIA/EMP report is in compliance of the TOR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as	Noted

S. No.	EC Conditions	Compliance status as furnished by the project proponent
	amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.	
20	The environmental clearance granted to the project/activity is strictly underthe provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water(Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.	Noted
21	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project forexpansion of Refinery capacity from 7.8 MMTPA to 12 MMTPA with Petrochemical Complex and associated facilities located at Village Agasode, Tehsil Bina, DistrictSagar, State Madhya Pradesh by M/s. Bharat Oman Refineries Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-	Noted
Α	Specific Condition:	
i.	This Environmental clearance is granted subject to final outcome of Hon'ble High Court	Noted
ii.	The company shall comply with all the environmental protection measuresand 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. All public	Compliance will be ensured during execution of project.  200 Lakhs has already been invested in Development of Green belt.  90 Ha green belt is already developed in the Forest Land in Kanjia Village (25Km from Refinery) in collaboration with Madhya Pradesh Forest Department. 1 lakh saplings planted in July-2024.

S. No.	EC Conditions	Compliance status as furnished by the project proponent	
	hearing issues shall be addressed as per timelineand budget (Rs. 30 Crores) submitted.		
iii.	The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18th March, 2008 and G.S.R.595(E) dated 21st August, 2009 as amended from time to time, shall be followed.	Shall be complied.	
iv.	Volatile organic compounds (VOCs)/Fugitive emissions shall be controlledat 99.997% with effective chillers/modern technology. For emission control and management, use of FG/NG in heater as fuel, adequate stackheight, use of Low NOX burners in heater & boiler, continuous stack monitoring, Sulphur recovery plant, etc. shall be installed/ensured.	Compliance will be ensured during execution of project.	
v.	Total freshwater requirement for the proposed project shall not exceed 94440 m³/day to be met from Betwa river. Necessary permission in this regard shall be obtained from the concerned regulatory authority. Entire effluent from the plant premises shall be treated and recycled/reused for makeup water in process etc. and no waste or treated water shall be discharged outside the premises. Domestic sewage shall be treated in theSTP.	Compliance will be ensured during execution of project.	
vi.	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MoEF&CC. Outcome from the report to beimplemented for conservation scheme.	Compliance will be ensured during execution of project.	
rii.	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Compliance will be ensured during execution of project.	
iii.	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboysetc. Flame arresters shall be provided on tank farm, and solvent transferto be done through pumps.	Compliance will be ensured during execution of project.	
ix.	Industry shall reduce SO <sub>2</sub> and NOx emissions by maximizing low SulphurFuel firing, installing modern Low NO <sub>x</sub> Burners for Crackers Heaters & Utility Boilers/CDU VDU, stack heights shall be increased for Utility Boilers, Cracker Heaters and CDU/VDU unit heaters	Compliance will be ensured during execution of project.	

S. No.	EC Conditions	Compliance status as furnished by the project proponent	
х.	Process organic residue and spent carbon, if any, shall be sent to cementindustries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Compliance will be ensured during execution of project.	
xi.	Study on Lifecycle assessment for Bitumen, Benzene, Toluene and Xylene(BTX) shall be instituted to understand the environmental impacts associated with all stages of the cycle of these products being hazardous and highly toxic for human exposure. Report be submitted to the RegionalOffice of MoEF&CC.	Study on LCA shall be done.	
xii.	Regular VOC monitoring shall be done at vulnerable points.	Being complied.	
kiii.	Fly ash should be stored separately as per CPCB guidelines so that itshould not adversely affect the air quality, becoming air borne by wind orwater regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided. The ashfrom boiler shall be sold to brick manufacturers/cement industry.	Being Complied.	
kiv.	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE linedpit with proper leachate collection system.	Oily sludge generated is recycled/ reprocessed in Delayed Coker Unit (DCU) within the refinery premises.	
xv.	Oil catchers/oil traps shall be provided at all possible locations in Complied rain/ storm water drainage system inside the factory premises.		
	The company shall undertake waste minimization measures as below:	Compliance will be ensured during execution of project.	
	<ul> <li>a) Metering and control of quantities of active ingredients to minimize waste</li> </ul>		
kvi.	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 reactor		
	e) Ventingequipment through vapour recovery system		

S. No.	EC Conditions	Compliance status as furnished by the project proponent	
	f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.		
vii.	The green belt of 5-10 m width shall be developed in the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. The project proponent shall ensure 33% greenbelt area vis-à-vis the project area through afforestation in the degraded area. The Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied with	
viii.	Additional Green Belt Area in 90 ha area instead of 65 ha as originally proposed shall be developed outside the Project boundary in consultationwith Forest Department. This would make the total greenbelt area as 37.43% of the project area.	Complied with	
cix.	PP will also take guidance of Forest Department to further enhance the density of trees in existing greenbelt area.	Compliance will be ensured during execution of project.	
XX.	As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and asper the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health carefacilities, drinking water supply and funds for miscellaneous activities likesolar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.	Compliance will be ensured during execution of project.	
xxi.	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines.  Acousticenclosure shall be provided to DG set for controlling the noise pollution.	Compliance will be ensured during execution of project.	

S. No.	EC Conditions	Compliance will be ensured during execution of project.  Compliance will be ensured during execution of project.  Compliance will be ensured during execution of project.	
exii.	The unit shall make the arrangement for protection of possible fire hazardsduring manufacturing process in material handling. Firefighting system shall be as per the norms.		
xiii.	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas 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. In case of the treatedeffluent to be utilized for irrigation/gardening, real time monitoring systemshall be installed at the ETP outlet.		
xiv.	The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skilldevelopment center/provide skill development training to village people.	Compliance will be ensured during execution of project.	
exv.	PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Compliance will be ensured during execution of project.	
xvi.	Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken/implemented accordingly.	Compliance will be ensured during execution of project.	
vii.	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.	Compliance will be ensured during execution of project.	
viii.	Recommendations of mitigation measures from possible accident	Compliance will be ensured during execution of project.	

S. No.	EC Conditions	Compliance status as furnished by the project proponent
	shall beimplemented based on Risk Assessment studies conducted	
	for worst casescenarios using latest techniques.	
xix.	The project proponent shall develop R& D facilities to develop their	Compliance will be ensured during execution of project.
33331£	own technologies for propylene and polypropylene processing.	
	A separate Environmental Management Cell (having qualified	Complied.
	person withEnvironmental Science/Environmental	
OXX.	Engineering/specialization in the project area) equipped with full-	
	fledged laboratory facilities shall be set upto carry out the	
	Environmental Management and Monitoring functions.	
	PP shall sensitize and create awareness among the people working	Awareness programs are being conducted on regular basis through
	withinthe project area as well as its surrounding area on the ban of	digital display boards and broadcasts.
	Single Use Plastic in order to ensure the compliance of Notification	
xxi.	published by MOEFCC on 12th August, 2021. A report along with	
	photographs on the measures taken shall also be included in the	
	six-monthly compliance report being submitted to concerned	
	authority.	
В	General Condition:	
	No further expansion or modifications in the plant, other than	Noted
	mentioned in the EIA Notification, 2006 and its amendments, shall be	1101.00
	carried out withoutprior approval of the Ministry of Environment,	
	Forest and Climate Change/SEIAA, as applicable. In case of	
i.	deviations or alterations in the project proposal from those	
	submitted to this Ministry for clearance, a freshreference shall be	
	made to the Ministry/SEIAA, as applicable, to assess theadequacy of	
	conditions imposed and to add additional environmental protection measures required, if any.	
	The energy source for lighting purpose shall be preferably LED	Noted
ii.	based, or advanced having preference in energy conservation and	
	environmentbetterment.	
ili.	The overall noise levels in and around the plant area shall be kept	Noted
	well within the standards by providing noise control measures	

S. No.	EC Conditions	Compliance status as furnished by the project proponent
	including acoustichoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	
iv.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Noted
٧.	The company shall earmark sufficient funds towards capital cost andrecurring cost per annum to implement the 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.	Noted
vî.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, ifany, were received while processing the proposal.	Copy of clearance letter sent to panchayat, zila parishad/municipal corporation, urban local body and local magistrate.  Copies are attached below:

S. No.	EC Conditions	Compliance status as furnished by the project proponent	
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vii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions includingresults 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 CPCBand SPCB. A copy of Environmental Clearance and six monthly compliancestatus report shall be posted on the website of the company.	Compliance report of conditions stipulated in Environment Clearance available on the company website i.e.:  https://www.bharatpetroleum.in/sustainability/environmental- clearance.aspx  Six monthly monitoring reports are regularly submitted to the RC MoEF&CC, Bhopal and other authorities along with Six Monthly Compliance Report of Environment Clearance.	
viii.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State PollutionControl 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 sent to the respective Regional Offices of MoEF&CC by e-mail.	Being Complied. The Environment Statement in Form-V for the Financial Year: 2024-25 submitted to MPPCB vide letter No.: BPCL/MPPCB/Consents/2024/dated 30.08.2024  https://www.bharatpetroleum.in/sustainability/environmental-clearance.aspx	
ix.	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	Complied with.  Informed to public by publishing in two local newspapers of Times of India and Dainik Bhaskar on 4th Dec, 2022.	

S. No.	EC Conditions	Newspaper Clippings are attached  The state of the state	
	may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall beadvertised 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 anda copy of the same shall be forwarded to the concerned Regional Office of the Ministry.		
х.	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.  Noted		
xi.	This Environmental clearance is granted subject to final outcome of Hon'bleSupreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.		
22	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all thesaid conditions in a time bound manner. The Ministry may revoke or suspend theenvironmental clearance, if implementation of any of the above conditions is not found satisfactory.	Noted	
23	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted	

S. No.	EC Conditions	Noted  Compliance status as furnished by the project proponent	
24	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.		
25	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	Noted	

#### SIX MONTHLY COMPLIANCE REPORT

OF

ENVIRONMENT CLEARANCE ISSUED BY MOEF & CC, NEW DELHI

VIDE LETTER NO.: J-11011/135/2013-IA II (I), Dtd: 12th May, 2015

FOR

EXPANSION OF REFINERY CAPACITY FROM 7.5 MMTPA TO 7.8 MMTPA OF M/S. BHARAT OMAN REFINERIES LIMITED (BPCL-BINA REFINERY) AT BINA, MP CONSIDERING AN INCREASE IN ANNUAL OPERATING DAYS FROM 333 DAYS TO 345 DAYS AND MAINTAINING THE SAME DAILY PROCESSING RATE- AMENDMENT

S. No	EC Conditions	Compliance Status
2	The Proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) in its 32 <sup>nd</sup> meeting held during 20 <sup>th</sup> -21 <sup>st</sup> January, 2015. EIA report preparation/public hearing is exempted as per para 7(ii) of EIA Notification, 2006. The committee recommended the proposal for amendment in environmental clearance.	Noted.
3.	The ministry accepts the recommendation of the expert appraisal committee (industry) for amendment in the existing clearance subject to compliance of specific conditions and general conditions.	Noted.
4.	All other conditions will remain unchanged	We have noted the condition.
5.	You are requested to keep this letter with the Environmental Clearance accorded vide letter No. J-11011/135/2013-IA II (I) dated 28 <sup>th</sup> November, 2014.	We have noted the condition.
6.	In future, in case of change in the scope of the project, the company shall obtain fresh environmental clearance	We have noted the condition.
7.	This issues with the prior approval of the competent authority	Noted.

SIX MONTHLY COMPLIANCE REPORT

OF

ENVIRONMENT CLEARANCE ISSUED BY MOEF & CC, NEW DELHI

VIDE LETTER NO.: J-11011/135/2013-IA II (I), Dtd: 28th November, 2014

FOR

EXPANSION OF REFINERY (FROM 6 MMTPA TO 7.5 MMTPA CRUDE PROCESSING) BY DEBOTTLENECKING OF M/S. BHARAT OMAN REFINERIES LIMITED(BPCL-BINA REFINERY) AT VILLAGE AGASOD, TEHSIL BINA, DISTRICT SAGAR, MADHYA PRADESH.

S. No.	EC Conditions	Compliance Status
Α	Specific Conditions	
i.	Compliance to all the environmental conditions stipulated in the environmental clearance letter no. J-11011/121/1994-IA II (I) dated 16 <sup>th</sup> February 1995 and 20 <sup>th</sup> march, 2009 shall be satisfactorily reports submitted to the Ministry of Regional office at Bhopal.	Complying with.  Six monthly monitoring reports are regularly submitted to the RO-MoEF&CC, Bhopal and other authorities along with Six Monthly Compliance Report of Environment Clearance.  Receipt of the same of submissions done in May-25 are attached as Annexure-1
ìi	M/s BPCL-BINA REFINERY shall comply with new standards/norms for Oil Refinery Industry notified under the Environment (Protection) Rules, 1986 vide G.S.R 186 (E) dated 18 <sup>th</sup> March, 2008	Environment Management Plan is designed in compliance to Norms as per G.S.R 186 (E) dated 18 <sup>th</sup> March, 2008.  The Category wise compliance of Environmental Parameters/ standards are given below:  a. It is to mention that the Bina Refinery is maintaining Zero Liquid Discharge, thus complying Effluent standards prescribed in Schedule-I of 2 of said rules in respect of effluent discharge to surface water bodies.  b. Mixed fuels (gas & liquid) are presently being used for operations at Bina Refinery, the applicable emission standards are being complied as prescribed in Part B of schedule-I of the said rules. The plant is designed and operated with Hydrogen cracking technology. Emissions are in compliance w.r.t Sulphur recovery unit. Monthly manual monitoring is conducted for SO <sub>2</sub> and online Continuous Emission Monitoring System is connected to stack. The monitored data of SO <sub>2</sub> emissions are regularly being submitted to MPPCB and a summary statement of SO <sub>2</sub> emissions is submitted MoEF&CC in six monthly compliance report. The assessment of efficiency of sulphur recovery is on the basis of quantity of the feed and sulphur recovered which is the data collected from the SRU process unit.  c. All installations to control fugitive emissions in respect of storage of general petroleum products are in place, with applicable engineering & regulatory standards like ASTM, OISD etc.  d. Presently, no Tar distillation is in process, thus no production of benzene & benzene-based products.  e. All leak detection measures as per the engineering design for refineries are implemented.  f. Waste water collection and treatment system is installed with closed circuit operation system with collection of VOCs and its treatment.  g. There is no aromatic plant installed.  Monitoring reports of Effluent and Emissions are enclosed as Annexure-2
iii	Continuous on-line stack monitoring for SO <sub>2</sub> , NOx, HC and CO of all the stacks shall be carried out. Low NOx burners shall be	Continuous on-line stack monitoring for SO2, NOx, PM and CO installed and connected to CPCB & MPPCB.  Low NO <sub>x</sub> burners installed in all new heater / furnaces to minimize the NOx emissions.

S. No.	EC Conditions	Compliance Status
	installed in heaters/furnaces/boiler to minimize NOx emissions.	
iv	The process emissions [SO <sub>2</sub> , NOx, HC (methane & Non-methane)], VOC and Benzene from various units shall conform to the standards prescribed under the Environment (protection) Act. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted unit the desired efficiency of the pollution of the pollution control device has been achieved.	As given in condition no. ii all emissions are in compliance with G.S.R 186(E) standards.
V	Leaks detection and repair programme shall be prepared and implemented to control HC/VOC emissions. Focus shall be given to prevent fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A	As given in condition no. ii all emissions are in compliance with G.S.R 186(E) standards.  Leak Detection and Repair (LDAR) program is implemented since 2011 for monitoring of fugitive emissions in refinery & dispatch terminal and the reports are submitted along with Six monthly monitoring reports to the RO-MoEF&CC, Bhopal and other authorities along with Six Monthly Compliance Report of Environment Clearance.  The summary of the savings done after the repair of identified leaks from Oct'24 to Mar'2 is given below:  S. No. Total points Equipment's checked
	preventive maintenance schedule for	checked
	each unit shall be prepared and adhered to. Fugitive emission of HC from product storage tank yards etc. must be regularly	1 9892 Pump, compressors, valves, flanges, exchangers, PSV, PRV etc.
	monitored sensors for detecting HC leakage shall be provide at strategic location.	Savings resulted after leak detection and repair is 0.3941Kg/day. Leak detected as per the GSR 186(E) dtd. 18.03.24 HC detectors installed at strategic locations as per requirement.

S. No.	EC Conditions	Compliance Status			
	SO <sub>2</sub> emission after expansion from the plant shall not exceed 29.25 TPD. Sulphur recovery efficiency of sulphur recovery unit with tail gas treating shall not be less than 99.9%.	Sulphur recovery efficiency of Sulphur Recovery Unit and Tail gas treatment (TGT) sections is >99.9%. The sulphur present in crude oil gets evolved mainly in the form of H2S gas during various stages of processing. Sulphur Recover Unit (SRU) recovers the Sulphur from Hydrogen Sulphide (H2S) rich gas stream which is formed in various secondary processing units. H2S rich gas is the feed to SRU & is treated in the Main Combustion Chamber & followed by two stage Clause reaction to convert H2S into elemental Sulphur Residual Sulphur compounds are further treated in Tail Gas Treating Unit (TGTU) in presence of catalyst Overall, very high Sulphur recovery is achieved in SRU with efficiency of >99.9%.			
vi		FY	Yearly Emission in MT	Daily avg. Emission in MT	
		2022-23	2186.7	5.99	
		2023-24	1743.8	4.77	
		2024-25	2167.03	5.93	
vii	As proposed, record of sulphur balance shall be maintained at the Refinery as part of the environmental data on regular basis. The basic component of sulphur balance include sulphur input through feed (sulphur content in crude oil), sulphur output from Refinery through products, by-product (elemental sulphur), atmospheric emissions etc.	Sulphur balance sheet is being maintained in Environment Management Cell based on the process feed, product & by-product. Records of the same for FY 24-25 has been given condition no. vi above.			
viii	Ambient air quality monitoring stations, [PM <sub>10</sub> , PM <sub>2.5</sub> , NOx, H <sub>2</sub> S, mercaptan, non-methane-HC and Benzene] shall be set up in the complex in consultation with Maharashtra Pollution Control Board, based on occurrence of maximum ground level concentration and downwind direction of wind. The monitoring network must be decided based on modelling exercise to represent short term GLCs.	premises and a mobile monitoring van is being deputed outside the project area with regular & random monitoring.			

S. No.	EC Conditions	Compliance Status		
ix	Ambient air quality data shall be collected as per NAAQMS standard notified by the ministry on 16 <sup>th</sup> November, 2009 and trend analysis w.r.t past monitoring results shall also be carried out. Adequate measures based on the trend analysis shall be taken to improve the ambient air quality in the project area.	Regular monitoring is being conducted; Ambient Air quality is within prescribed limits within and outside the plant premises.  Six Months Ambient Air Quality reports are enclosed as Annexure-3		
x	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets mitigate the noise pollution. Besides, acoustic enclosure /silencer shall be installed wherever noise levels exceed the limit.	Complied with.  Adequate stack height provided to the proposed DG sets as part of refinery expansion. Acoustic enclosures / silencers incorporated as part of the design of the DG sets.		
хi	Total raw water requirement from Betwa river shall not exceed 6.26 MGD. Industrial effluent shall be treated in the effluent treatment plant. Treated effluent shall be recycled/reused as make up for the raw water to cooling tower. Domestic sewage shall be treated in sewage treatment plant (STP). As proposed, no effluent shall be discharged outside the plant premises and zero discharge concepts shall be followed.	The effluent generated from the proposed expansion is treated within the existing Effluent Treatment Plant. Domestic sewage generated is treated along with the process effluent in Sequential Batch reactor. The entire treated water is reused for production of DM water in RO_DM plant and for horticulture purpose. Hence, Zero Discharge Condition followed.		

S. No.	EC Conditions	Compliance Status				
	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Complied with.  Three numbers of oil catchers are already in place on storm water drainage system inside the factor premises.				
xii		S. No.	Oil Catcher		Location	
		1	Oil Catcher-1	ETP, to handle th	e storm water flowing from the process plants	
		2	Oil Catcher-2	ETP, to cater the	storm water from Crude Receipt Terminal	
	34	3	Oil Catcher-3	Near Flare stack,	to cater the storm water near flare stack	
xiii	As proposed, BPCL-BINA REFINERY shall be developed rainwater harvesting pond in an area of 6 acres.  As proposed, oily sludge shall be disposed-off through bio-remediation.	Complied with.  Rainwater harvesting measures have been implemented in refinery township.  Rainwater harvesting pond in 12 acres with 10 recharge wells having a capacity of 173156 m3 and recharge capacity of 25973 m3 is constructed in refinery premises.  Complied with.  Currently, the Oily sludge generated in the Effluent Treatment Plant, is reprocessed in Delayed Coker Unit				
	Annual oily sludge generation and disposal data shall be submitted to Ministry's Regional Office and CPCB	(DCU). De			from April 25 to Sept 25 is given below:	
		No.	Month	Quantity, MT		
xiv		1	April-25	19.6		
AIV		2	May-25	19.9		
		3	June-25	21.8		
		4	July-25	21.3		
		5	Aug-25	8.25		
	0.	6	Sept-25	14.7		
					rocess the Oily sludge in Bioremediation Unit. ta is submitted in the form of Form-4 to board	
xv	The company should strictly comply with the rules and guidelines under Manufacture, storage and import of Hazardous chemicals rules, 1989 as amended in October 1994 and January, 2000 hazardous waste should be disposed of as per Hazardous waste (management, Handling and trans-	No hazardous chemical, which satisfies the criteria laid down in Part I of schedule 1 or listed in column 2 of Part II is being imported.  The hazardous waste generated is disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Hazardous Waste authorisation is also obtained from MPPCB, valid till 30.06.2029.				

S. No.	EC Conditions	Compliance Status		
	boundary movement) rules, 2008 and amended time to time.			
xvi	The membership of common TSDF shall be obtained for the disposal of hazardous waste. Copy authorization or membership of TSDF shall be submitted to ministry's Regional office at Bhopal. Chemical/inorganic sludge shall be sent to treatment storage disposal facility (TSDF) for hazardous waste. Spent catalyst shall be sent authorized recyclers/re-processors.	Complied with.  BPCL-Bina Refinery has already taken TSDF membership with M/s. Pithampur Industrial Waste Management Private Limited, Dhar, MP.  The details of spent catalyst handled in FY 24-25 is also submitted in Form-IV, as attached in condition xiv and attached as Annexure-4		
xvii	Proper oil spillage prevention management plan shall be prepared to avoid spillage/leakage of oil/petroleum product and ensure regular monitoring.	Complied with.  Emergency Response and Disaster Management Plan has been prepared.  Necessary features incorporated in expansion refinery to prevent and collect oil spills etc.		
xviii	The company shall strictly follow all the recommendation mentioned in the charter on corporate responsibility for Environment protection.	Complied with.		
xix	To prevent fire and explosion at oil and gas facility, potential ignition sources shall be kept to a minimum and adequate separation distance between potential ignition sources and flammable materials shall be as per the CPCB guidelines.	Complied with.  For refinery expansion, separation distance between various facilities in the refinery has been kept in accordance with applicable OISD standards (OISD-STD-118).		

S. No.	EC Conditions	Green belt development is a continuous activity in and around boundaries of refinery. Green belt of 200m width along the boundary of refinery is developed with local species like Neem, Sheesham, Kadamba, Arabic gum, scholar tree, Indian rosewood, red forest gum etc. A total of 5 Lakh + saplings are planted so far inside refinery and outside premises in phase wise manner.  290 Ha of green belt is already developed and additionally 90 ha of green belt is developed in Forest land in collaboration of MP Forest Department. Total 380 Ha of green belt area as against 1015 Ha (37.43% of total		
ж	Green belt shall be developed at least in 255 ha area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Thick greenbelt with suitable plant species shall be developed around unit. Selection of plant species shall be as per the CPCB guidelines.			
ххі	All the commitment made regarding issues raised during the public hearing/consultation meeting held on 19 <sup>th</sup> February, 2014 shall be satisfactorily implemented.	Complied.  Public hearing was conducted on 19.02.2014. All the issues have been addressed adequately and to the satisfaction of the stakeholders.		
xxii	At least 5% of the total cost of the project shall be earmarked towards the enterprise social responsibility based on public hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.	Complied.  We wish to submit that 5 % of the total project cost amounts to Rs 150 Crore with the approved cost of the Project being Rs 3000 Crore. Such an allocation is not feasible considering the economics of the project. We would like to inform that after commissioning of greenfield refinery in 2011, company continued to have accumulated losses and hence we had undertaken the capacity expansion project to overcome our weak financial position. Hence allocation of 5 % of the total project cost towards Enterprise Social Responsibility (ESR) amounting to Rs 150 Crore will further burden the project and impact the project economics.  Subsequently, vide MoEFCC Memorandum – F. No. 22-65/2017-IA.III dated May 1, 2018, capital investment prescribed for a brown field project of greater than Rs 1,000 Crores to Rs. 10,000 crores are 0.25 % on Corporate Environmental Responsibility (CER). It may be noted that we have applied for waiver of this condition with MoEF&CC and EAC committee recommended the same. Further, MoEFCC circular dated 30/09/2020 allocation of funds under CER is not required.  As on date we have spent more than 6.35 crores against 6.25 Crores under ESR towards protection of Environment. Apart from above, company is doing CSR jobs in surrounding areas in four thematic areas which includes Environment also.		
xxiii	All the recommendations mentioned in the rapid risk assessment report, disaster	Being Complied.		

S. No.	EC Conditions	Compliance Status		
	management plan and safety guidelines shall be implemented.			
xxiv	Company shall adopt corporate Environment policy as per the ministry's O.M. no. J-11013/41/2006 –IA.II (I) dated 26 <sup>th</sup> April, 2011 and implemented.	Company has well laid QEHS Policy.  A hierarchical system of the company to deal with environmental issues and for ensuring the compliance of Environmental clearance conditions is developed with environmental engineers in place. Periodical review of Environmental performance takes place at APEX meetings.		
XXV	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The Housing may be in the form of temporary structures to be removed after the completion of the project.	Implemented and complied.		
В	General Conditions			
1	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.	Complying with all the stipulations made by the MP Pollution Control Board and compliance reports are submitted to MPPCB regularly.		
ii	No further expansion or modification in the project shall be carried out without prior approval of the ministry of Environment & forests. 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.	We have noted the condition.		
iii	The project authorities must strictly comply with the rules and regulation under Manufacture, storage and import	Rules and regulations under MSIHC rules 1989, as amended in 2000 are compiled and approvals from The Petroleum and Explosives Safety Organization (PESO) and Fire safety inspectorate have been obtained for the project.		

S. No.	EC Conditions	Compliance Status		
	of hazardous chemicals rules, 2000 as amended subsequently. Prior approvals form chief inspectorate of factories, Chief controller of Explosives, Fire safety inspectorate etc. must be obtained, wherever applicable.			
iv	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise.	I read and the second of the actorica citibilities will be placed and the biologic leading in		
v	A separate Environmental Management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Environment Management Cell has been set up with qualified staff to ensure the effective implementation of		
vi	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	Separate budget has been allocated to the Environment Department. Allocated budget for the FY: 2024-25 is INR 243 Lakhs.      Detail of the environment budget and expenditure for FY 23-24 and FY 24-25 the is enclosed below:      Year		
vii	The Regional office of this Ministry/Central Control Board/State Pollution Control Board will monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six monthly monitoring reports are regularly submitted to the RO-MoEF&CC, Bhopal and other authorities along with Six Monthly Compliance Report of Environment Clearance as given Specific condition no.i.		
viii	A copy of clearance letter shall be sent by the proponent to concerned panchayat, Zila Parishad/ Municipal Corporation,			

5. No.	EC Conditions	Compliance Status
	Urban Local Body and the Local NGO, if any, from whom suggestion/ representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent	
ix	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: [PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> NOx, HC methane & non-methane) VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Compliance report of conditions stipulated in Environment Clearance is available on the company website i.e.: <a href="https://www.bharatpetroleum.in/sustainability/environmental-clearance.aspx">https://www.bharatpetroleum.in/sustainability/environmental-clearance.aspx</a> Six monthly monitoring reports are regularly submitted to the RO-MoEF&CC, Bhopal and other authorities along with Six Monthly Compliance Report of Environment Clearance.  The Continuous Ambient Air Quality Monitoring data and Continuous Emission Monitoring of Stacks is displayed in the digital display board at the main gate of refinery.
×	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional of office of this Ministry/CPCB /SPCB shall monitor the stipulated conditions.	Six monthly monitoring reports are regularly submitted to the RO-MoEF&CC, Bhopal and other authorities along with Six Monthly Compliance Report of Environment Clearance as given Specific condition no. i.

S. No.	EC Conditions	Compliance Status
xi	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Complied. The Environment Statement in Form-V for the Financial Year: 2024-25 is submitted to MPPCB vide letter No. BPCL/MPPCB/Consents/2024/13 dated 30.08.2024 https://www.bharatpetroleum.in/sustainability/environmental-clearance.aspx
xii.	The Project Proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http: envfor.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 the Regional office.	Complied with. Informed to public by publishing in two local newspapers of Hindustan Times and Dainik Bhaskar on 21st& 23rd June 2015.
xiii	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 commencing the land development work.	Date of Commencement of land development: September 2015

S. No.	EC Conditions	Compliance Status
8.0	The Ministry may revoke or suspend the clearance, if implementations of any of the above conditions are not satisfactory.	We have noted the condition.
9.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	We have noted the condition.
10.0	The above conditions will be enforced, inter-alia under the provisions of the water (prevention & control of pollution) Act. 1974 Air (prevention & control water of pollution) Act, 1981, the Environment (protection) Act, 1986, Hazardous waste (Management, Handling and Transboundary Movement) Rules, 2008 and the public liability insurance Act, along with their amendments and rules.	Noted.

## SIX MONTHLY COMPLIANCE REPORT

OF

ENVIRONMENT CLEARANCE ISSUED BY MOEF & CC, NEW DELHI

VIDE LETTER NO.: J-11011/21/1994-1A II (I), Dtd: 20<sup>th</sup> March, 2009

S. No	EC Conditions	Compliance status	
Specific	Conditions		
ı	M/s BPCL-BINA REFINERY shall comply with new standards/ norms for Oil Refinery Industry notified under the Environment (Protection) Rules 1986 vide G.S.R. 186 (E) dated 18 <sup>th</sup> March 2008.	the state of the s	
II	M/s BPCL-BINA REFINERY shall comply with all the conditions stipulated vide Ministry's letter of even no. dated 16.02.1995.	Point has been noted.  Compliance Status is enclosed in the preceding section.	
iii	The process emissions (SO2, NOX, HC, VOCs and Benzene) from various units shall conform to the standards prescribed by the Madhya Pradesh State Pollution Control Board from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Gaseous emissions from all the process units are continuously monitored through an online stack monitoring system for ensuring compliance with the stipulations.  In addition, the monthly Stack monitoring/analysis is being done through a MoEF&CC approved laboratory.	
iv	Ambient air quality monitoring stations (SPM, SO <sub>2</sub> , NOx, H <sub>2</sub> S, Mercaptans, NMHC and Benzene) shall be set up in the Refinery complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs. Continuous on-line stack monitoring equipment shall be installed for measurement of SO <sub>2</sub> , NOx, CO and O <sub>2</sub> . Data should be displayed on the gate of the refinery and important public places through sign boards. The data should be displayed on the web industry and e-mailed to the Regional office of the Ministry/CPCB/State Pollution Control Board.	Complied with.  BPCL-Bina Refinery has installed and commissioned 4 nos. of continuous AAQMS in consultation with MPPCB. And connected to MPPCB. One station shifted to MPPCB- Sagar as per the directions of MPPCB.  The data is displayed at the main gate through a digital display board.	
v	Monitoring of fugitive emissions shall be carried out as per the guidelines of CPCB by fugitive emission detectors and reports shall be submitted to the Ministry's regional office at Bhopal. For control of fugitive emission all unsaturated hydrocarbon will be routed to the flare system and the flare system shall be designed for smoke less burning.	Complied with.  Leak Detection and Repair (LDAR) program is implemented since 2011 for monitoring of fugitive emissions in refinery & dispatch terminal and the reports are submitted along with Six monthly monitoring reports to the RO - MoEF&CC, Bhopal and other authorities along with Six Monthly Compliance Report of Environment Clearance.  All unsaturated hydrocarbons are routed to the flare system and the flare system is designed for smoke less burning	

vi	Fugitive emissions in the form of HC from product storage tank yards etc. must be regularly monitored. Sensors for detecting H <sub>2</sub> S, HC leakage shall also be provided at strategic locations. The company shall use low sulphur fuel to minimize SO <sub>2</sub> emission. Leak Detection and Repair program shall be implemented to control HC/VOC emissions. Work zone monitoring shall be carried out near the storage tanks besides monitoring HCs/VOCs in the work zone.	primary and secondary seals and all fixed roof tanks are provided with N <sub>2</sub> blanketing to reduce fugitive emissions. Sensors for detecting H <sub>2</sub> S, HC leakage have been installed in the refinery.
vii	The flare area shall have H <sub>2</sub> S and HC detectors with fire alarm system at fire station/ control room. Flare gas recovery system shall be installed. All process units shall have knockout drums in every battery area. The safety release system of light hydrocarbons which are open to atmosphere shall be connected to flare system.	H2S and HC detectors are installed at flare area and are connected to control room with alarm system.
viii	The wastewater shall be treated in the waste water treatment plant and the treated effluent shall meet the prescribed standards. Efforts shall be made to recycle the treated effluent to achieve zero discharge.	
ix	The project authorities must strictly comply with the rules and regulation with regard to handling and disposal of Hazardous Wastes (Management Handling and Trans Boundary Movement) Rules 1989/2003/2008, wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.	The hazardous waste generated is disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Hazardous Waste authorization is also obtained from MPPCB, valid till 30.06.2029.
Х	The company shall strictly follow all the recommendation mentioned in the charter on Corporate Responsibility for Environmental Protection (CREP).	Complied with.
xi	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during flaring.	Necessary features have been incorporated in refinery design to prevent fire hazards, oil spills etc. Firefighting facilities have been designed confirming to the relevant OISD standards (OISD-STD-116, OISD-GDN-115 & 200). Additionally, a Vacuum truck has been procured for handling of oil spills. All flare lines are routed to an overhead flaring stack with knockout drum.
xii	To prevent fire and explosion at Oil and Gas facility, potential ignition sources shall be kept to a minimum and adequate separation distance	

	between potential ignition sources and flammable material shall be in place.	For refinery expansion, separation distance between various facilities in the refinery has been kept in accordance with applicable OISD standards (OISD-STD-118).
xiii	Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factories Act.	Periodical medical surveillance of workers is done regularly, and records are being maintained.
xiv	Greenbelt shall be developed to mitigate the effect of fugitive emission all around the plant in a minimum 33% plant area in consultation with DFO as per CPCB guidelines.	Complied. Green belt development is a continuous activity in and around boundaries of refinery. Green belt of 200m width along the boundary of refinery is developed with local species like Neem, Sheesham, Kadamba, Arabic gum, scholar tree, Indian rosewood, red forest gum etc. A total of 5 Lakh + saplings are planted so far inside the refinery and outside premises in phase wise manner.  290 Ha of green belt is already developed and additionally 90 ha of green belt is developed in Forest land in collaboration of MP Forest Department. Total 380 Ha of green belt area as against 1015 Ha (37.43% of total area of 1015 Ha).
xv	M/s BPCL-BINA REFINERY shall undertake measures for rain water harvesting to recharge the ground water and minimize fresh water consumption.	Rainwater harvesting measures have been implemented in refinery township.  Rainwater harvesting pond in 12 acres with 10 recharge wells having a capacity of 1,73,156 m3 and recharge capacity of 25,973 m3 is constructed in refinery premises.
6	In case of change in the scope of the project, M/s, BPCL-BINA REFINERY shall obtain fresh environment clearance under the provisions of EIA Notification, 2006	Point has been noted.

## SIX MONTHLY COMPLIANCE REPORT

OF

## ENVIRONMENT CLEARANCE ISSUED BY MOEF & CC, NEW DELHI

VIDE LETTER NO.: No: J-11011/21/94-IA-II (I), Dtd: 16-02-1995

FOR

6 MMTPA GRASSROOT REFINERY, INCLUDING CAPTIVE POWER PLANT (CPP) AND MARKETING TERMINAL (BY BPCL) AT BINA, M.P. OF BHARAT OMAN REFINERIES LIMITED

S. No	EC Conditions [EC. No: J-11011/21/94-IA-II (I), Dtd: 16-02-1995]	Compliance status
i	The project authority must strictly adhere to the stipulations made by the M.P. Pollution Control Board and the State Government.	All the conditions stipulated by Pollution Control Board of Madhya Pradesh through Air, Water & Hazardous authorizations are strictly adhered to and compliance of same is submitted to MPPCB regularly.
II	Any expansion of the plant, either with the existing product mix or new product(s) or storage facilities etc. can be taken up only with the prior approval of this ministry.	Any expansion or modernization in the plant will be taken up only with the prior approval of the Ministry of Environment & Forests.
III	Total emissions of SO <sub>2</sub> from the entire refinery complex should not exceed the range 30 - 40 TPD.	Sulphur recovery efficiency of Sulphur Recovery Unit and Tail gas treatment (TGT) sections is >99.9%.  The sulphur present in crude oil gets evolved mainly in the form of H2S gas during various stages of processing. The Sulphur Recover Unit (SRU) recovers the Sulphur from Hydrogen Sulphide (H2S) rich gas stream which is formed in various secondary processing units. H2S rich gas is the feed to SRU & is treated in the Main Combustion Chamber & followed by two stage Clause reaction to convert H2S into elemental Sulphur. Residual Sulphur compounds are further treated in Tail Gas Treating Unit (TGTU) in presence of catalyst. Overall, very high Sulphur recovery is achieved in SRU with efficiency of >99.9%.
iv	The gaseous emissions from various process units should conform to the standards prescribed by the concerned authorities, from time to time. At no time the emissions level should go beyond the stipulated standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should be shut down immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.	Gaseous emissions from all the process units are continuously monitored through the Online Continuous Emission Monitoring System available in all the stacks for ensuring compliance with the stipulations. In addition, the monthly Stack monitoring/analysis is being done through a MoEF&CC approved laboratory.
٧	Sulphur recovery units with more than 99% efficiency for sulphur recovery should be provided	Sulphur recovery unit with Tail Gas Treatment Unit (TGTU) with >99.5% efficiency for Sulphur recovery is operated
vi	Low NOx burners to avoid excessive formulation of NOx should be provided.	Low NOx burners are provided in all fired heaters of the refinery for reduction of NOx emissions.
vii	At least four ambient air quality monitoring stations should be set up in the refinery area in the down wind direction as well as where maximum ground level concentrations of SO <sub>2</sub> , NOx, HC and SPM are anticipated. The monitoring network should be decided based on the modeling exercise to represent the short term GLCs. A mobile van with adequate facilities to monitor ambient air quality outside the refinery premises should also planned.	Complied with.  BPCL-Bina Refinery has installed and commissioned 4 nos. of continuous AAQMS in consultation with MPPCB. And connected to MPPCB. One station shifted to MPPCB- Sagar as per the directions of MPPCB.  A mobile van with adequate facilities to monitor ambient air quality outside the refinery premises is available.

viii	Fugitive emissions of HC from storage tanks, crude oil tanks etc., should be minimized by adopting necessary measures. Action plan should be prepared for this purpose and submitted to this ministry.	All floating roof tanks along with crude oil tanks are provided with primary a secondary seals and all fixed roof tanks are provided with N <sub>2</sub> blanketing reduce fugitive emissions.  Regular fugitive emissions monitoring is being done to check the Vemissions.		
ix	Adequate facilities for monitoring the fugitive emissions should be planned	monitoring of fugitive are submitted along w	emissions in refinery rith Six monthly mon thorities along with	am is implemented since 2011 for & dispatch terminal and the reports itoring reports to the RO - MoEF&CC, Six Monthly Compliance Report of
×	The stack should be of appropriate design and height and should be attached to pollution control system where ever necessary. Height of			ate height are provided in all units. & CPP units is 100 m.
	stacks attached to AVU, HCU, CPP etc. should not be less than 100m.	Name of section	Stack Height (meters)	Control equipment to be installed
		Boilers (CPP)	100	Cyclone, E.S.P, Green Belt
		Boiler (Utility)	100	Heater/Furnace-Low Sulphur Fuel, Low NOX Burner
		CDU/VDU Heater (Stack-1)	100	Green Belt, Heater/Furnace- Low Sulphur Fuel, Low NOX Burner
		HCU/Dhdt heater (Stack-6)	100	Green Belt, Heater/Furnace- Low Sulphur Fuel
		Furnace (Heaters in KHDS)	60	Green Belt Heater/Furnace- Low Sulphur Fuel, Low NOX Burner
		Furnace (NHT Auxiliary Reboiler)	60	Green Belt , Heater/Furnace- Low Sulphur Fuel, Low NOX Burner
		Furnace (Stack -2 DCU heaters)	60	Green Belt , Heater/Furnace- Low Sulphur Fuel, Low NOX Burner
		Furnace (Stack-4 Hot-oil heater)	60	Green Belt , Heater/Furnace- Low Sulphur Fuel, Low NOX Burner

		Furnace (CCR Auxiliary Inter Heater)	65	Green Belt , Heater/Furnace- Low Sulphur Fuel, Low NOX Burner
		Furnace (Stack -7 HGU heater)	70	Green Belt , Heater/Furnace- Low Sulphur Fuel, Low NOX Burner
		Incinerator (Stack - 3 SRU Incinerator)	80	Green Belt , Heater/Furnace- Low Sulphur Fuel, Low NOX Burner
		NHT/CCR heater (Stack-5 MS block Heaters)	75	Green Belt , Heater/Furnace- Low Sulphur Fuel, Low NOX Burner
xi	Designing of LPG spheres including the exclusion zone should be finalized in consultation and approval of the department of Explosives.	Not applicable as only of spheres.	y LPG mounded bu	llets are provided for storage instead
xii	Ground water should not be tapped for the industrial as well as domestic uses including the township. Alternate source has to be finalized keeping in view its impact on other competent users.			water requirement of refinery and tapped.
XIII	Recycling/Reuse of the treated effluent to the maximum extent possible should be planned.			ed to RO-DM plant. Balance treated velopment inside refinery.
xiv	Adequate numbers of influent and effluents quality monitoring stations have to be planned with adequate facilities especially for the parameters like phenols, sulphides, oil and grease, suspended solids, BOD, COD, pH and flow.	Also installed Continuthe parameters such a	so by an external N ous Effluent Qualit is pH, BOD, COD, TS	carried out on a regular basis by in- MOEF approved laboratory.  y Monitoring Station at ETP outlet for S and Flow as per the CPCB guidelines CB and CPCB portals continuously.
XV	System to recover oil from the oily sludge and incinerator for burning the residues should be provided.	For maximum recover Delayed Coker Unit. A	ry of hydrocarbon Alternatively, Bio-re dual oil from the oi	s, ETP Oily sludge is recycled to the emediation facility has been provided ly sludge. BPCL-Bina Refinery has also
xvi	Hazardous substances and solid wastes should be handled, stored and disposed off as per the hazardous wastes (Management and Handling) Rules, 1989 of the EPA 1986.	Hazardous waste ger Hazardous and Other	nerated is stored, Wastes (Managen	handled and disposed of as per the nent and Transboundary Movement) ation is also obtained from MPPCB,

		A CONTRACTOR OF THE CONTRACTOR
xvii	Cutting of trees from the project sites should be kept to minimum while developing the site and planning the infrastructural facilities.	Cutting of trees has been kept minimum during the site and planning of infrastructural facilities
xviii	The industrial township should not be located in the down wind direction with respect to the refinery.	The residential colony is developed on southern side of the refinery with respect to predominant wind pattern
xix	Adequate sanitation facilities and cooking fuel should be provided to the laborers to avoid tree cutting and nuisance in the area.	Adequate sanitation facilities were provided to laborers
XX	The labours of the contractor should leave the place after completion of the work at site to avoid creation of slum in the adjoining areas of the project.	The temporary housing of the construction labour was removed from the project area to avoid creation of slum in the adjoining area
xxi	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing acoustic hoods, silencers etc on all the sources of noise generation.	Adequate measures are incorporated during the detailed engineering of the project such that noise levels in and around the plant shall be within the noise levels.
xxii	A green belt of at least 200 m and adequate density in the downwind direction using native plant species should be developed in consultation with the local DFO.	Green belt development is a continuous activity in and around boundaries of refinery. Green belt of 200m width along the boundary of refinery is developed with local species like Neem, Sheesham, Kadamba, Arabic gum, scholar tree, Indian rosewood, red forest gum etc.
XXIII	Necessary approvals from the Chief Explosives Directorate, Inspector of Factories, Fire Safety Inspector etc., should be obtained and copies of approval letters be made available to this ministry.	Necessary approvals from concerned authorities are obtained and copies submitted to your office vide our letter No. BPCL-BINA REFINERY/MoEF/EC/2018/03 dated 01/01/2019.
xxiv	The project authority should set up laboratory facilities for collection and analysis of samples under the supervision of competent technical personnel, who will directly report to the chief Executive.	The laboratory facility had been established with competent technical personnel reporting to senior management and is NABL accredited.
XXV	An Environmental Management Cell should be established with suitably qualified people to carry out various functions and should be set up under the control of a senior executive who will report directly to the head of the organization.	Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safeguards.
xxvi	Medical surveillance of workers should be done regularly to avoid possibility of contracting occupational diseases against the worker engaged in the various plants and record maintained.	Periodical medical surveillance of workers is done regularly, and records are being maintained.
xxvii	The project authorities should carry out a water balance study at the proposed weir site and submit the report within 12 months.	Water balance study has been carried out at the weir site and report submitted.
xxviii	The funds earmarked for the environmental protection measures should not be diverted for other purposes and year wise expenditure should be reported to this ministry.	Complied.

3	The project authorities should also comply with the additional stipulations and conditions prescribed in the EIA and risk analysis reports.	Being Complied.
4	The ministry or any other competent authority may stipulate any further conditions, after assessing the pollution caused after the implementation of the project.	Noted and agreed to comply with the directions of the MoEF& CC, if any.
5	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Point has been noted.
6	The above conditions will be enforced inter-alia under the provisions of the water (prevention and control of pollution) Act 1974, the Air (Prevention and control of pollution) Act 1981, The Environment Protection Act – 1986.	