



IndianOil

Barauni Refinery

Status as on 30.09.2020

**Subject: Status of Environmental Clearance Conditions for Expansion of Barauni Refinery from 6 MMTPA to 9 MMTPA along with polymer units by M/s Indian Oil Corporation Limited at Barauni, District Begusarai (Bihar)- Environmental Clearance - reg.**

**Ref: Ministry's clearance letter no J-11011/15/2015 - IA-II (I) dated 15.02.2019 and 04.06.2020**

SN	Point	Status
11	Terms and Conditions	
a)	Third party assessment for the environmental damage, if any, and differential impacts on environmental parameters due to excess crude processing (during the periods 2009-10, 2010-11, 2012-13, 2013-14, 2015-16, & 2016-17) shall be carried out by NEERI or by any other agency of repute, in a fixed time frame and the report shall be submitted to the ministry.	<ul style="list-style-type: none"><li>• Study has been completed by M/s NEERI Nagpur in Jan 2020 and report submitted to MoEF&amp;CC on 30.01.2020.</li><li>• As per report no adverse impact of excess crude processing is observed and same has been accepted by MoEF&amp;CC (Ref: Minutes of the 17th meeting of the Expert Appraisal Committee (Industry-2 sector) held during 25-27 February, 2020, Agenda 17.15)</li></ul> <b>Complied</b>
b)	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, shall be obtained from the State Pollution Control Board as required.	<ul style="list-style-type: none"><li>• Permission from BSPCB, under Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, available with validity till 31.12.2023</li></ul>
c)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	<ul style="list-style-type: none"><li>• Presently no effluents discharged outside refinery.</li></ul>
d)	Necessary authorization required under the Hazardous and Other Wastes	<ul style="list-style-type: none"><li>• Authorization from BSPCB available with validity till 06.01.2024.</li></ul>

	(Management and Trans-Boundary Movement) Rules, 2016 and Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	
e)	To control source and the fugitive emissions, suitable pollution control devices shall be installed with different stacks to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stacks of adequate height as per CPCB/SPCB guidelines.	<ul style="list-style-type: none"> <li>• BELCO scrubber is installed in RFCCU for effluent scrubbing as a pollution control device.</li> <li>• Noted for compliance</li> </ul>
f)	The National Emission Standards for the Petroleum Oil Refinery issued by the Ministry vide G.S.R.186(E) dated 18 <sup>th</sup> March, 2008, as amended from time to time, shall be followed.	<ul style="list-style-type: none"> <li>• Please refer <b>Annexure-1</b> for detailed status for compliance of 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.</li> </ul>
g)	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R.820 (E) dated 9 <sup>th</sup> November, 2012, as amended from time to time, shall be followed.	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>
h)	Total fresh water requirement shall not exceed 24000 cum/day to be met from ground water through artesian wells. Necessary prior permission in this regard shall be obtained from the concerned regulatory authority.	<ul style="list-style-type: none"> <li>• Noted for compliance.</li> </ul>
i)	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	<ul style="list-style-type: none"> <li>• Noted for compliance.</li> </ul>
j)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and solvent transfer to be done through pumps.	<ul style="list-style-type: none"> <li>• Noted for compliance.</li> </ul>
k)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>

	industry.	
l)	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 (MVA), 1989.	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>
m)	Regular monitoring of Volatile Organic Compounds shall be carried out at vulnerable points.	<ul style="list-style-type: none"> <li>• Is already being done and will be expanded to include new units.</li> </ul>
n)	Oily sludge shall be collected for oil recovery and the residue shall be bio-remediated.	<ul style="list-style-type: none"> <li>• Is already being done and will be done for new units as well.</li> </ul>
o)	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional office of the Ministry. Outcome from the report to be implemented for conservation scheme.	<ul style="list-style-type: none"> <li>• Water study for entire refinery has been carried out by EIL and final report submitted in Feb 2020. Phase wise implementation of recommendations is being undertaken.</li> </ul>
p)	Oil caters/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	<ul style="list-style-type: none"> <li>• Oil catchers have been constructed at 7 strategic locations of the refinery</li> <li>• Oil containment booms have also been installed at 3 nos of strategic locations in the refinery.</li> <li>• Oil collected/trapped by oil catcher and oil containment booms are transferred to ETP mechanically through gully suckers.</li> <li>• <b>The same facility will also be provided in the new units.</b></li> </ul>
q)	<p>The company shall undertake waste minimization measures as below:-</p> <p>(i) Metering and control quantities of active ingredients to minimize waste.</p> <p>(ii) Reuse of by-products from the process as raw materials or as raw substitutes in other processes.</p> <p>(iii) Use of automated filling to minimize</p>	<p>All critical/important process lines have flow meters installed.</p> <p>All excess/byproduct gases generated are used as fuel gas. Any oil drained is routed to ETP for recovery and is reprocessed in AVUs/Coker.</p> <p>In OM&amp;S Gantry, automated filling is done with</p>

	<p>spillage.</p> <p>(iv) Use of Close Feed system into batch reactors.</p> <p>(v) Venting equipment through vapour recovery system.</p> <p>(vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>process interlocks in place to avoid spillage.</p> <p>Batch reactors process occurs only in Coker unit. In this unit closed and automated feed system is in place.</p> <p>ETP has a VOC recovery system. Recovered vapour is passed through activated charcoal bed before venting.</p> <p>High pressure (hydrojet) is used to clean vessels, exchangers &amp; pipelines when required.</p>
r)	<p>The green belt of 5-10 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 road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.</p>	<ul style="list-style-type: none"> <li>• Total plot area of the refinery: 887.83 acres.</li> <li>• Green belt area in Refinery: 43.8 acres.</li> <li>• Green belt area in Refinery Township: 82.19 acres.</li> <li>• Total green belt area: 125.99 acres.</li> <li>• Number of trees planted till date since 1995 is 111,174.</li> <li>• There is no further land available for tree plantation in Refinery and township. BR has made an agreement with East Central railway for 89.28 acre land for development of greenbelt. For additional land, discussion is going on with Forest Department of Bihar Govt.</li> </ul>
s)	<p>All the commitments made to the public during hearing/consultation shall be satisfactorily implemented.</p>	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>
t)	<p>At least 0.25% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.</p>	<ul style="list-style-type: none"> <li>• Detailed ESR plan attached as <b>Annexure-2</b>.</li> </ul>
u)	<p>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.</p>	<ul style="list-style-type: none"> <li>• DG set is not used during normal refinery operation. It is used only in case of complete power failure; hence monitoring data is not available. Stack monitoring will be done whenever DG set will be in line. The acoustic enclosure and stack height modification job will be completed by Mar'21.</li> </ul>
v)	<p>The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in</p>	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>

	material handling. Fire fighting system shall be as per the norms.	
w)	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.	<ul style="list-style-type: none"> <li>• 20 nos. of existing stacks are installed with online analyzers connected to the servers.</li> <li>• For stacks of CRU, New Prime-G, NHT-CCR by Mar 2021</li> <li>• All upcoming new stacks will also be provided with online analyzers.</li> <li>• Web camera with night vision is installed in the channel/drain to Burrow pit.</li> <li>• For continuous monitoring of effluent, purchase order for online analyzer placed on 26<sup>th</sup> Feb 2020. For flow meter, purchase order placed on 15.07.2020.</li> </ul>
x)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<ul style="list-style-type: none"> <li>• Being complied</li> </ul>
y)	Process safety and risk assessment studies shall be carried out using advanced models and the mitigating measures shall be undertaken accordingly.	<ul style="list-style-type: none"> <li>• Noted for compliance</li> </ul>
<b>11.1 Generic Conditions</b>		
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and/or any other statutory authority.	<ul style="list-style-type: none"> <li>• Stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority are being followed.</li> <li>• <b>Complied.</b></li> </ul>
ii.	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 the 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.	<ul style="list-style-type: none"> <li>• Prior approval of ministry would be taken before carrying out any expansion or modification of the plant if required.</li> <li>• <b>Complied.</b></li> </ul>

iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB), ensuring that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	<ul style="list-style-type: none"> <li>• Five nos. of offline ambient air quality monitoring stations (four in refinery and one in township) and three nos. of continuous ambient air quality monitoring station has been provided at strategic locations at Barauni Refinery for monitoring of ambient air quality.</li> <li>• 03 Nos of additional ambient air monitoring stations installed in periphery villages of Refinery.</li> <li>• Ambient air quality is checked twice in a week in five nos. of offline ambient air quality monitoring stations as per MoEF&amp;CC standards 2009. Report enclosed.</li> <li>• <b>Complied.</b></li> </ul>
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be complied with.	<ul style="list-style-type: none"> <li>• Ambient air quality is checked twice in a week in five nos. of offline ambient air quality monitoring stations as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009.</li> <li>• <b>Complied.</b></li> </ul>
v.	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, 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.	<ul style="list-style-type: none"> <li>• The ambient noise levels from existing facilities conform to the standards prescribed under standards prescribed under Environment (Protection) Act, 1986 Rules. Reports enclosed.</li> <li>• For personnel working in the proximity of high noise generating equipments, appropriate PPEs are used, and exposure is controlled through job rotation, education and awareness.</li> <li>• Adequate noise control measures shall be taken in new facilities in the project.</li> <li>• <b>Complied.</b></li> </ul>
vi.	The company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.	<ul style="list-style-type: none"> <li>• Rain water harvesting has been implemented at 21 buildings of Barauni Refinery and township in which water collected from roof top of various buildings is recharged to ground water. Total surface run-off of township is also being used for ground water recharge.</li> <li>• Storm water drain of the refinery has been routed to ETP and storm water is being reused in refinery operation after treatment along with ETP water except during heavy rainfall, when excess surface run off may have to be allowed to flow into Refinery owned pit (Burrow Pit) adjacent to refinery premise</li> </ul>

		<p>in the West.</p> <ul style="list-style-type: none"> <li>• <b>Complied.</b></li> </ul>
vii.	<p>Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.</p>	<ul style="list-style-type: none"> <li>• Training is continuously imparted to all employees on chemical handling.</li> <li>• Pre – employment medical examination of all employees are carried out before joining the organization.</li> <li>• Routine periodical medical examination as per statutory requirement is carried out on regular basis.</li> <li>• <b>Complied.</b></li> </ul>
viii.	<p>The company shall comply with all environmental 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, risk mitigation measures and public hearing shall be implemented.</p>	<ul style="list-style-type: none"> <li>• Presently Environmental Monitoring of all required parameters in Refinery is carried out periodically. The existing practice shall be extended for the proposed project as per EIA/EMP report.</li> </ul>
ix.	<p>The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administrations and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.</p>	<ul style="list-style-type: none"> <li>• Being done based on the drawn up schedule as part of CSR. CSR plan is finalized in consultation with mukhiyas of surrounding villages.</li> </ul>
x.	<p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.</p>	<ul style="list-style-type: none"> <li>• BR has a full-fledged environment protection cell and a well equipped dedicated pollution control laboratory established back in 1975.</li> <li>• <b>Complied</b></li> </ul>
xi.	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Changes well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment</p>	<ul style="list-style-type: none"> <li>• Being complied.</li> <li>• In addition to one time investment in facilities for combating pollution, separate funds are allocated for specific activities such as environment monitoring, operation and maintenance of effluent treatment plant, oil recovery from oily sludge through mechanized skid process and studies related to environment etc.</li> </ul>

	management/pollution control measures shall not be diverted for any other purpose.	
xii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO , if any, from whom suggestions/ representations, if any, were received while processing the proposal.	<ul style="list-style-type: none"> <li>• A copy of the clearance letter has been submitted to concerned Panchayat, Zila Parishad. Enclosed as <b>Annexure-3</b>.</li> </ul>
xiii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental 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 Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	<ul style="list-style-type: none"> <li>• A six monthly compliance report and the monitored data are submitted regularly. Will be done for this EC as well.</li> <li>• EC Compliance status of various projects is being hosted on <a href="https://www.iocl.com/Talktous/SNotices.aspx">https://www.iocl.com/Talktous/SNotices.aspx</a>. Alternatively, one can reach IOCL home page at <a href="https://www.iocl.com">https://www.iocl.com</a> and thereafter selecting "We're Listening" tab followed by opening "Statutory Notices".</li> <li>• <b>Complied</b></li> </ul>
xiv.	The environmental statement for each financial year ending 31 <sup>st</sup> 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 sent to the respective Regional offices of MoEF&CC by e-mail.	<ul style="list-style-type: none"> <li>• Environment Statement for each financial year is submitted to Bihar State Pollution Control Board and MoEF&amp;CC. Same is also sent to Regional Office of MoEF&amp;CC by e-mail and hosted at the website <a href="https://www.iocl.com/Talktous/SNotices.aspx">https://www.iocl.com/Talktous/SNotices.aspx</a>.</li> <li>• <b>Complied</b></li> </ul>
xv.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and the copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a> . 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	<ul style="list-style-type: none"> <li>• The information regarding accord of Environment clearance for the subject project has been advertised in two local newspapers. Copy enclosed as <b>Annexure-4</b>.</li> <li>• <b>Complied.</b></li> </ul>



	one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	
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## Annexure-1

<b>Status and Action Plan for Compliance of Revised Emission and Effluent Standards 2008 at Barauni Refinery</b>		
<b>Schedule -I: Petroleum Oil Refinery</b>		
<b>A. Effluent Discharge</b>		
<b>SN</b>	<b>Standard</b>	<b>BR status and action plan</b>
1	<b>Treated Effluent Quality</b>	No effluent is discharged outside refinery. Treated effluent is totally reused and its quality is maintained as per MINAS. Reports attached separately.  <b>Complied</b>
<b>B. Emissions</b>		
<b>SN</b>	<b>Standard</b>	<b>BR status and action plan</b>
2	<b>H<sub>2</sub>S in Fuel Gas</b>	H <sub>2</sub> S in Fuel Gas is within limits as required under revised standards. <b>Complied</b>
3	<b>SO<sub>2</sub> Emissions</b>	These parameters are monitored through online stack analyzers. These analyzers are directly connected to CPCB and BSPCB servers. Emissions are under within limit. Reports attached separately. <b>Complied</b>
4	<b>NO<sub>x</sub> Emissions</b>	
5	<b>CO Emissions</b>	

6	<b>Particulate Matter (PM) Emissions</b>	<p>Barauni Refinery processes more low sulphur crude in recent years. Only about 5% high sulfur crude processing takes place. As a result internal fuel oil quality has been improved w.r.t emission of particulate matter. Further, particulate matter analyzers have been installed in all stacks of refinery and connected to CPCB server since June-16. The online analyzer data available now help us fine tuning fuel firing and optimization of gas mix amongst various furnaces and the controlling the PM parameters within the statutory limit.</p> <p><b>COMPLIED.</b></p>
7	<b>Nickel and Vanadium (Ni+V) Emissions</b>	<b>COMPLIED.</b>
8	<b>Sulphur Content in Liquid Fuel</b>	<b>COMPLIED.</b>
9	<b>Continuous Monitoring System for SO<sub>2</sub> &amp; NO<sub>x</sub> emissions</b>	Continuous monitoring is done through online analyzers. These analyzers are directly connected to CPCB and BSPCB servers. <b>Complied</b>
10	<b>Opacity of Flue Gas ex FCCU Regenerators</b>	<p>&gt; RFCCU was commissioned at Barauni Refinery along with flue gas scrubbing technology supplied by M/s Belco, USA. In the Belco unit, the flue gas is scrubbed with water &amp; diluted caustic solution (&lt;0.5 % concentration by wt.) to remove SO<sub>x</sub> and particulate matter. PM level in flue gas is less than 30 mg/Nm<sup>3</sup>. High volume of condensed water vapor generated during water scrubbing of flue gas escapes through the BELCO stack as whitish plume. Opacity meter under such condition is not considered relevant as it will not be effective due to high moisture content in flue gas. &gt; Further, PM analyzers have been installed in RFCCU stack through which particulate matter ex- RFCCU stack is monitored, which is closely akin to monitoring of opacity in flue gas. Therefore opacity meter installation at RFCCU is not planned. &gt; <b>Complied.</b></p>
11	<b>Sulphur Recovery from SRU</b>	<p>SRU at Barauni refinery meets the revised standard.</p> <p><b>COMPLIED.</b></p>

12	<b>H<sub>2</sub>S emissions from SRU</b>	SRU at Barauni refinery meets the revised standard. <b>COMPLIED.</b>
<b>C. Fugitive Emission</b>		
<b>SN</b>	<b>Standard</b>	<b>BR status and action plan</b>
13	<b>Storage tanks with capacity between 4 to 75 m3 and TVP of more than 10 kpa</b>	<b>Not Applicable.</b>
14	<b>Storage tanks with capacity between 75 to 500 m3 and TVP of 10 to 76 kpa</b>	<b>Not Applicable.</b>
15	<b>Storage tanks with capacity of more than 500 m3 and TVP of 10 to 76 kpa</b>	Storage tanks of Crude, MS & SRN have TVP of 10 to 76 kpa. All such tanks are IFRT or EFRT. <b>COMPLIED.</b>
16	<b>Storage tanks with capacity of more than 500 m3 and TVP of more than 76 kpa</b>	<b>Not Applicable</b>
17	<b>Provision of secondary seals in floating roof tanks</b>	All such tanks at Barauni Refinery are equipped with double seal. <b>COMPLIED.</b>

18	<b>Emission control in Rail Tank Wagon/ Road Tank Truck loading for Gasoline and naphtha for VOC reduction</b>	Barauni Refinery complies most of the revised standards for petroleum refineries as notified in Gazette of India on 18th March'08 except vapor recovery system in tank wagon/tank truck. For VOC reduction of 99.5% and emission control to 5 gm/m <sup>3</sup> in case of Gasoline and Naphtha loading, VOC recovery system at Loading Gantry would be required. Existing gantry at Barauni refinery does not have adequate space for laying a bigger dia header all along the gantry and other equipments for vapour recovery system. It will also require the shutdown of product loading gantry for 3-4 months to install this facility. Outage of gantry for such a long period cannot be allowable in view of the chances of market dry out of the major petroleum products.
19	<b>Equipments leak and LDAR programme</b>	<b>COMPLIED.</b>
<b>D. Emission Standards for VOC from Wastewater Collection and Treatment</b>		
20	<b>VOC Collection &amp; Treatment System</b>	VOC treatment system as a part of ETP modernization project has been installed and commissioned. <b>COMPLIED.</b>
<b>Schedule -VI, Part C: Petroleum Oil Refinery</b>		
<b>SN</b>	<b>Standard</b>	<b>BR status and action plan</b>
21	<b>Quantum limit for discharge of total effluent</b>	No effluent is discharged outside refinery. Treated effluent is totally reused.
22	<b>Limit of quantity of effluent discharged</b>	

## Planning of CER Projects of Barauni Refinery for the next 5-years

Activity wise fund utilization action plan															Expenditure Plan (Crores)				
Sl.	Activity/ Project details	Activities Planned Exp (Rs. Cr)	Activities Appd. Exp (Rs. Cr.)	Activities Completed Exp (Rs. Cr.)	Fund Spent Exp (Rs. Cr)	Status of the project	Date of approval from Competent authority	Start Date of the Project	Consent from District Administration	Scheduled Date of Completion	Category of the Project	Mode of implementation	Name of implementing agency	2020-21	2021-22	2022-23	2023-24	2024-25	
1	Construction of Boundary Wall, Internal Road and provision of street lights in the Burrow Pit area of Barauni Refinery	12.32	12.32	NIL	NIL	Project Approved Under AF Budget Head . Tendering Done & Agency Lined-Up on 20.02.2020. Site Handing : 09.03.2020 . Project Completion by Dec-2020. Consent Received from Begusarai District Admn on 06.08.2020. Proposal initiated for conversion from AF Budget Head to CER Budget Head.	14.11.2019	01.04.2020	Yes	30.04.21	Security as well as Community Development	Through Tendering by IOCL	M/s Buildtech Associates	8.82	3.5				
2	Construction of Cross Drains in Keshawe Village to provide support to the villagers in order to avoid any water-logging inside the village.	6.14	6.14	NIL	NIL	Feasibility Study completed . Consent Received from Begusarai District Admn on 06.08.2020. Estimate done and Tender Floated. Tender Opening Date : 09.09.2020. Project Completion Period : 10 Months	Under Approval	Yet to Start	Yes	31.10.21	Sanitation	Through Tendering by IOCL	Yet to be decided	1.00	5.14				
3	Construction of 04(Four) Nos of classrooms in Middle School Govindpur	0.65	0.65	NIL	NIL	Agency Lined up for the works. Consent Received from Begusarai District Admn on 06.08.2020. Agency	Under Approval	Yet to Start	Yes	31.01.2021	Education	Through Tendering by IOCL	Yet to be decided	0.65					

	located in the vicinity of Refinery					under Mobilization. Work to be started by 10th September .Expected Completion of the Project by Jan-2021												
4	Building as Learning Aid in different schools of Begusarai District	1.37	1.37	NIL	NIL	Project Details received from District Administration Begusarai .Consent Received from Begusarai District Admn on 06.08.2020.Feasibility Study under progress.Planned to be executed on Deposit Work Basis thru Begusarai District Administration .Expected Signing of MoU by Oct-2020.Project Completion Period : 06 Months	Under Approval	Yet to Start	Yes	31.07.23	Education	Deposit Work Basis through MoU	Begusarai District Administration	0.15	0.6	0.62		
5	Manure Management Project with Sudha Dairy in Technical Support by National Dairy Development Board (NDDDB), Anand	1.13	1.13		NIL	Project Details received from NDDDB & Feasibility Study completed.Consent Received from Begusarai District Admn on 06.08.2020.MoU details finalized with NDDDB. MoU signing through VC is being planned and dates are under finalization .Expected Start of the Project by 15th September 2020. Project Completion Period : One Year	Under Approval	Yet to Start	Yes	30.09.21	Solid Waste Management	Deposit Work Basis through MoU	National Dairy Development Board	0.27	0.86			

6	Construction of 6-Bed Burn Ward in the Sadar Hospital Begusarai	3.86	3.86	NIL	NIL	Project Details received from Health Department, Govt of Bihar.Consent Received from Begusarai District Admn on 06.08.2020.Feasibility Study under progress .Planned to be executed on Deposit Work Basis thru Govt. of Bihar .MoU under finalization.Expected Signing of MoU by Nov-2020.Project Completion Period : 18 Months	Under Approval	Yet to Start	Yes	30.10.23	Health	Deposit Work Basis through MoU	Health Dept, Govt of Bihar	0	1.75	2.11		
7	Construction of School Building in 10 (Ten) Govt Schools in Begusarai District .	7.00	NIL	NIL	NIL	Schools identified for construction works for 4 Nos of Classrooms in each of the Govt School. Site visit of the school is planned to be undertaken after the schools are opened by the order of the Govt and necessary clearances from District Administration is to be obtained	Consent from District Admiistrati on to be taken	Yet to Start	Yet to be received	31.03.2024	Education	Through Tendering by IOCL	Yet to be decided	0.00	2.60	2.60	1.80	
8	Constrution of Community Hall ( Two nos ) nearby Panchayats of Barauni Refinery- Mahna Panchayat (Rupaspur Village) & Nurpur Panchayat.	1.40	NIL	NIL	NIL	Request received from local MLA and to be considered under the CER works as these pancyatas are nearby the Refinery installation. Feasibility Study to be done and Gram Panchayat to provide land for construction purposes.	Consent from District Admiistrati on to be taken	Yet to Start	Yet to be received	31.03.2023	Community Development	Through Tendering by IOCL	Yet to be decided	0.00	0.70	0.70		



9	Instillation of 10 (Ten) Nos Plasmacore Technology based machine ( Eco Friendly , Make In India Project and comprehensive solution ) for Municipal Solid Waste Management in Begusarai Town.	5.00	NIL	NIL	NIL	Under discussion with Begusarai District Administration for finalization of location.	Consent from District Administration to be taken	Yet to Start	Yet to be received	31.03.2023	Solid Waste Management	Through Tendering by IOCL	Yet to be decided	0.00	2.50	2.50				
10	Construction of Multi-purpose auditorium in Govt Middle School in Jemra Village under Mosadpur Panchayat	0.75	NIL	NIL	NIL	Feasibility Study under progress.	Consent from District Administration to be taken	Yet to Start	Yet to be received	31.03.2022	Education	Through Tendering by IOCL	Yet to be decided		0.75					
11	Green-Belt Development as per the Statutory requirement against BR-9 Project	35.00	NIL	NIL	NIL	MoU has been signed with Indian Railways for land to develop green belt ( approx. 89 Acres ) and methodology for implementation is under finalization.	Consent from District Administration to be taken	Yet to Start	Yet to be received	31.03.2025	Environment				9.00	9.00	9.00	8.00		
12	Sewerage Treatment Plant in Begusarai District	20.00	NIL	NIL	NIL	Tentative estimation is to be done in line with the estimation to be provided by District Administration	Consent from District Administration to be taken	Yet to Start	Yet to be received	31.03.2025	Solid Waste Management					6.70	7.00	6.30		
		<b>94.62</b>	<b>25.47</b>	<b>0</b>	<b>0</b>									<b>10.89</b>	<b>27.40</b>	<b>24.23</b>	<b>17.80</b>	<b>14.30</b>		
<p><b>Note:</b> Projects as identified above are tentative only and subjected to change based on the approval from District Administration as per CER policy in due course of time.</p>																				

## Annexure-3



रिफाइनरीज प्रभाग  
Refineries Division

इंडियन ऑयल कॉर्पोरेशन लिमिटेड  
एन.ए. सिंगरुली, कुलघर, एन.ए. सिंगरुली  
जिला, बंगलुरु-560 014

Indian Oil Corporation Limited

Barauni Refinery PO, Barauni Oil Refinery,  
Distt. Begusarai Bihar 851 114

Website: www.iocl.com

E-mail: baraunirefinery@iocl.com

Phone: 06243 240159; 240119

Fax: 06243 240153/240278

ISO: 9001, 14001 & OHSAS: 18001 Certified Refinery



Ref.No.: TS/HSE/2020/02/ 1190

Date : 12.02.2020

To,  
Municipal Commissioner  
Begusarai Nagar Nigam  
Begusarai, Bihar

Sub: Copy of EC received by IOCL, Barauni Refinery for record

Dear Sir,

A copy of Environmental Clearance from MoEF&CC, received by IOCL, Barauni Refinery via F. No. J-11011/15/2015-IA-II (I), for the project for **Expansion of Barauni Refinery from 6 MMTPA to 9 MMTPA along with polymer units**, is attached for your kind perusal and record

Thanking you.

Yours faithfully,

(M A Choudary)

GENERAL MANAGER (TS & HSE)

Encl As above

*Received*  
*12/02/2020*

Handwritten signature in red ink.



रिफाइनरीज प्रभाग  
Refineries Division

इंडियन ऑयल कॉर्पोरेशन लिमिटेड  
राजीव गांधी इस्पात इकाई, बाराणी रिफाइनरी  
बिहार, बेगूसराय, बिहार, 851 114

Indian Oil Corporation Limited  
Barauni Refinery, PO: Barauni Oil Refinery,  
Dist: Begusarai, Bihar, 851 114  
Website: www.iocl.com  
E-Mail: barauni.refinery@iocl.com  
Phone: 06241 240159 / 240111  
Fax: 06241 240150 / 240278



ISO 9001:2015 & OHSAS 18001 Certified Refinery

Ref.No.: TS/HSE/2020/02/1141

Date : 12.02.2020

To,  
Shri Arvind Kumar Verma, IAS  
District Magistrate-cum-Collector  
Begusarai, Bihar

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Yours faithfully,

(M A Choudary)  
GENERAL MANAGER (TS & HSE)

Encl: As above

F. No.J-11011/15/2015-IA-II (I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, N Delhi - 3  
Dated: 15<sup>th</sup> February, 2019

To,  
**M/s Indian Oil Corporation Limited,**  
Barauni Refinery,  
District **Begusarai** (Bihar)

**Sub: Expansion of Barauni Refinery from 6 MMTPA to 9 MMTPA along with polymer units by M/s Indian Oil Corporation Limited at Barauni, District Begusarai (Bihar) - Environmental Clearance - reg.**

**Ref: Online Proposal No.IA/BR/IND2/28027/2015 dated 2<sup>nd</sup> February, 2019.**

Sir,

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3. The details of the existing/proposed products are as under:-

S. No.	Product/By-product	Existing (TMTPA)	Proposed (TMTPA)	Total (TMTPA)
1	LPG	318	169.1	487.1
2	Poly Propylene	0	203	203
3	Naphtha	83.4	35.3	118.7
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श्री २१५ सुरेश्वरी  
06-04-2019 Page 1 of 7  
मुख्या  
ग्राम पंचायत राज राचयार  
महं परखण्ड बेगूसराय

F. No.J-11011/15/2015-IA-II (I)  
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Ministry of Environment, Forest and Climate Change  
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सुदी 28/2/19  
6/4/2019  
सरपंच

राम कचहरी, रंजितपुरी-बकासपुर  
027-4444-वेदुसराज

9430015740

F. No.J-11011/15/2015-IA-II (I)  
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Ministry of Environment, Forest and Climate Change  
(IA Division)

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Std

*Signatures*  
06/04/2019  
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शम पचायत राज  
ग्राम-मंदिहानी (प. नया)  
9934292577

F. No.J-11011/15/2015-IA-II (I)  
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Ministry of Environment, Forest and Climate Change  
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दि. 15-2-2019  
आवाज

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Ministry of Environment, Forest and Climate Change  
(IA Division)

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Ministry of Environment, Forest and Climate Change  
(IA Division)

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F. No.J-11011/15/2015-IA-II (I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
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कार्ड-प्रमाणित किया गया है कि यह  
प्रमाणित कार्ड office PA  
संख्या- 778/017013 (अनुयायक के प्रमाणित)

F. No.J-11011/15/2015-IA-II (I)  
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3	Naphtha	83.4	35.3	118.7
4	MS (BS-VI)	1351.6	372.4	1724.0
5	Aviation Turbine Fuel	204.0	(-)0.8	203.2
6	Superior Kerosene	370.0	0	370.0
7	HSD (BS-VI)	2787.1	1833.9	4621.0
8	Fuel Oil	46.9	(-) 45.9	1.0
9	Bitumen	74.0	0	74.0
10	Carbon Black Feed Stock	0	0	0
11	Raw Pet Coke (LS)	154.0	(-) 30.0	124.0
12	Raw Pet Coke (HS)	0	184.0	184.0
13	Sulfur	21.7	34.3	56.0
14	Fuel & Loss	591	243.0	834
<b>Total</b>		<b>6000</b>	<b>3000</b>	<b>9000</b>

असल- अक्षय कुमार गुप्ता  
10/2/19  
01/4/2019  
7631556112  
9209522881

F. No.J-11011/15/2015-IA-II (I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, N Delhi - 3  
Dated: 15<sup>th</sup> February, 2019

To,

**M/s Indian Oil Corporation Limited,**  
Barauni Refinery,  
District **Begusarai** (Bihar)

**Sub: Expansion of Barauni Refinery from 6 MMTPA to 9 MMTPA along with polymer units by M/s Indian Oil Corporation Limited at Barauni, District Begusarai (Bihar) - Environmental Clearance - reg.**

**Ref: Online Proposal No.IA/BR/IND2/28027/2015 dated 2<sup>nd</sup> February, 2019.**

Sir,

This has reference to your online proposal No.IA/BR/IND2/28027/2015 dated 2<sup>nd</sup> February, 2019 along with the EIA/EMP report containing public hearing proceedings for the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of Barauni Refinery from 6 MMTPA to 9 MMTPA along with polymer units by M/s Indian Oil Corporation Limited in a total area of 3592921sqm at Barauni, District Begusarai (Bihar).

3. The details of the existing/proposed products are as under:-

S. No.	Product/By-product	Existing (TMTPA)	Proposed (TMTPA)	Total (TMTPA)
1	LPG	318	169.1	487.1
2	Poly Propylene	0	203	203
3	Naphtha	83.4	35.3	118.7
4	MS (BS-VI)	1351.6	372.4	1724.0
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<b>Total</b>		<b>6000</b>	<b>3000</b>	<b>9000</b>

01/02/19  
श्री अमित कुमार  
रिश्तदार  
9825371927

F. No.J-11011/15/2015-IA-II (I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, N Delhi - 3  
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<b>Total</b>		<b>6000</b>	<b>3000</b>	<b>9000</b>

STH  
अपड-  
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रिपॉर्टिंग  
4825371927

**Copy of advertisement regarding receipt of Environment Clearance in two local newspapers**

Hindustan Times Page no.6 Patna Edition dated 20.02.2019

**THE HC ALSO STRUCK DOWN THE RESOLUTION OF BIHAR'S BUILDING CONSTRUCTION DEPARTMENT AS IT ALSO SUFFERED**

Former CM Jagannath Mishra is also occupying 41 Kranti Marg residence.

Former CM Jagannath Mishra is also occupying 41 Kranti Marg residence.

Former CM Jagannath Mishra is also occupying 41 Kranti Marg residence.

Reserve Price	Date and Time of Auction
₹ 30,70,000/-	27.03.2019 11.00 a.m. to 03.00 p.m.
₹ 3,07,000/-	
₹ 10,000/-	
₹ 2,16,00,000/-	27.03.2019 11.00 a.m. to 03.00 p.m.
₹ 21,60,000/-	
₹ 10,000/-	
₹ 2,80,00,000/-	27.03.2019 11.00 a.m. to 03.00 p.m.
₹ 28,00,000/-	
₹ 10,000/-	

**IndianOil**  
(REFINERIES DIVISION)  
BARAUNI REFINERY  
P.O.: Barauni Oil Refinery, Dist. Begusarai - 851114, Bihar.  
(A GOVT. OF INDIA UNDERTAKING)

**NOTICE**

It is to bring to kind notice of all concerned that Barauni Refinery has received clearance for "Expansion of Barauni Refinery from 6 MMTPA to 9 MMTPA along with polymer units vide ministry's clearance letter no. J-11011/15/2015-IA-II(I) dated 15.02.2019". The estimated project cost is Rs. 8287 Crore. Detailed copy of Environment clearance letter is available with BSPCB website & may also be seen at website of ministry at <http://moef.nic.in>.

TR/NOTICE/2018-2019

**TRIBAL COOPERATIVE MARKETING DEVELOPMENT FEDERATION OF INDIA LTD. (TRIFED)**  
(Ministry of Tribal Affairs, Govt. of India)  
NCUI Building, 2nd Floor, 3, Siri Institutional Area, August Kranti Marg, New Delhi-110016  
Tel.: 011-26968247, 26569064, 26560117  
Fax: 091-11-26866149  
Email: [trifed.mfpdivision@gmail.com](mailto:trifed.mfpdivision@gmail.com)  
Website: [www.trifed.in](http://www.trifed.in)

**EXPRESSION OF INTEREST FOR APPOINTMENT OF PROJECT MANAGEMENT CONSULTANCY (PMC) FOR TRIFOOD**

**FCI ARAVALI GYPSUM AND MINERALS INDIA LIMITED**  
(A Govt. of India Undertaking) Mini Ratna - II Company  
Mangu Singh Rajvi Marg, Patna, Jodhpur (Rajasthan)  
Phone No. 0291-2544392, Website: [www.fgml.nic.in](http://www.fgml.nic.in)

**NOTICE INVITING TENDER**

Online/Offline tenders under Two-Bid system are invited for jobs related to (1) Core Drilling job at Kanti Gypsum Mines (2) Preparation of Mining Plan of Lime Stone Mines located at Nodradhar (H.P.) (3) Transportation of Packed Gypsum Powder to Lucknow (U.P.) and Nearby areas (4) Auction of various scrap items located at our various offices/mines sites on "as is where is" basis. Full details can be seen on website [www.fgml.nic.in](http://www.fgml.nic.in). Any amendment/corrigendum will be posted on the website of the company.

GENERAL MANAGER

**Nalanda UNIVERSITY**  
Raiglr, Dist- Nalanda, Bihar-803116

Tender Notice No.: NU/Adm/11/2018-19/03 Dated 20<sup>th</sup> February 2019.

Nalanda University is an institution of National Importance under the Ministry of External Affairs, and was established by an act of Parliament of India. It is a prestigious and international institution in East Asia with students and teachers from India and abroad. Following Tenders are invited from authorised and reputed AGENCIES:-

1. Tender for Housekeeping Services - Last date 12.03.2019
2. Tender for Horticulture Services- Last date 12.03.2019

For further details please visit [www.nalandauniv.edu.in/Tenders](http://www.nalandauniv.edu.in/Tenders).

Registrar

**BHARAT COKING COAL LIMITED**  
(A subsidiary of Coal India Limited)Date: 11.02.2019

**E-TENDER NOTICE**

Open E-Tender invited vide GM/KA-IV/Survey/18-19/4423 Dated: 11.02.2019 for the work of "Construction of 12 Nos. Isolation stopping in IV (Bot) (2/7 panel) of AKWM Colliery of Katras Area. Estimated cost: Rs. 12.65.886.00, EMD: Rs. 16,000.00 Time of completion: 100 days.

The tender documents can be downloaded from 26.02.2019 to 12.03.2019. All prospective bidders are advised to visit website <https://coalindiatenders.gov.in> for further details and to participate against this tender. Full details of this tender are also available on website "e-procure.gov.in".

Sd/-  
Area Survey Officer, Katras Area

**INTER UNIVERSITY ACCEL**  
ARUNA ASAF ALI MARR

Inter University Accel invites the proposals lat from Ion Beam Centre in Universities for r Satellite Centre of IUAC For detailed advertise [www.iuac.res.in](http://www.iuac.res.in)

**संजय वैश्वमल बैंक**  
GENERAL SERVICES ADMIN. D SECTOR - 4 B.S.

**TENDER**

Punjab National Bank invites e-tender following Work:  
CIVIL, FURNISHING, MODUL WORK, LIGHT FITTINGS & F BOKARO, SECTOR - 4, B.S.CIT Work is Rs. 52.60 lacs, EMD: R Tender download is from 19.0: downloading tender document submission is 11.03.2019 till encryption and bid submission 12.03.2019 till 1400 hrs. For details, visit our website - <http://pnbindia.biz> Any corrigendum/clariication shall be released only at our : and <https://pnbindia.biz> Date: 18.02.2019 Place : Bokaro

**बैंक ऑफ इंडिया BOI**  
Bank of India Relationship beyond Banking.

**SARFAESI Act, 2002**

Whereas, The undersigned being the aut Securitisation and Reconstruction of Financial Act, 2002 and in exercise of powers conferred Security Interest (Enforcement) Rules, 2002

