

# इंडियन ऑयल कॉर्पोरेशन लिमिटेड

पारादीप रिफाइनरी परियोजना

डाकघर : झिमाना, भाया : कुजंग, जिला : जगतसिंहपुर, ओडिशा - 754 141

## Indian Oil Corporation Limited

### Paradip Refinery Project

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रिफाइनरीज प्रभाग  
Refineries Division

Ref: PDRP/HSE/MOEF2013/2

30-11-2013

To  
The Ministry of Environment and Forests,  
Eastern Regional Office,  
A/3, Chandrasekharapur,  
BHUBANESHWAR – 751 023  
ORISSA

### Sub.: Half Yearly Compliance Report of ECs issued to IOCL, Paradip Refinery

Dear Sir,

Enclosed please find the Half Yearly Compliance Report of the following ECs from date Jun to Nov'13:

1. Compliance Status for Environment Clearance for Grass Root Refinery-cum-Petrochemical Complex of 15 MMTPA at Paradip (Letter F.No.J-11011/70/2007-1A II (I) dated July 6, 2007) is enclosed as Annexure-A.
2. Compliance Status for half Yearly Compliance Report in respect of Conditions of the CRZ Clearance for laying of Storm Water Outfall Pipelines to sea for Paradip Refinery Project. (Letter F. No.11-86/2011-IA III dated 21st February 2012) is enclosed as Annexure-B.
3. Compliance Status for: CRZ Clearance for laying of pipeline from Paradip Refinery to South Jetty at Paradip Port, Odisha (Letter F. No. 11-33/2013-IA III, Government of India, Ministry of Environment & Forests (IA Division), Dated 19th September, 2013) is enclosed as Annexure-C.

Thanking you,

Yours faithfully,

(R. L. Kalita)

General Manager (HSE)

Copy to:

1. The Member Secretary, Orissa Pollution Control Board, Paribesh Bhawan, A/118, Neelkanthanagar, Unit-8, Bhubaneswar – 751 012, Orissa.

## Annexure-A

### Sub: Compliance Status for Environment Clearance for Grass Root Refinery-cum-Petrochemical Complex of 15 MMTPA at Paradip (Letter F.No.J-11011/70/2007-1A II (I) dated July 6, 2007)

S. NO.	CONDITION	STATUS
A.	<b>SPECIFIC CONDITIONS:</b>	
i.	The company shall ensure strict implementation/ compliance to the stipulations made by MOEF vide OM No.J-11011/26/1997-IA-II dated 24 <sup>th</sup> December, 1997.	Shall be complied with.
ii.	The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> , CO, NMHC & Benzene) from the various process units shall conform to the standards prescribed under the Environment (Protection) Rules, 1986 or norms stipulated by the SPCB whichever is more stringent. At no time, the emission level shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.	Shall be complied with.
iii.	Ambient air monitoring stations, [SPM, SO <sub>2</sub> , NO <sub>x</sub> and NMHC, 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 modelling exercise to represent short term GLCs. Continuous on-line stack monitoring equipment shall be installed for measurement of SO <sub>2</sub> and NO <sub>x</sub> . Data on VOC shall be monitored and submitted to the SPCB/ Ministry.	<p>The Ambient Air Quality Monitoring stations are being set up based on the modelling exercise conducted under the Comprehensive EIA Study</p> <p>Continuous on-line stack monitoring equipment for SO<sub>x</sub> and NO<sub>x</sub> are being installed at all the stacks.</p> <p>Data on VOC shall be monitored and submitted to OPCB after commissioning the refinery.</p>
iv.	The total SO <sub>2</sub> emission from the refinery complex shall not exceed 1000 kg/hr after fully stabilizing of the expansion and modernization of the refinery complex and upgrading the existing facilities. SO <sub>2</sub> emission report may be made on daily basis for all the stacks (fuel burning and process emissions through the computerized mechanism). Further, regular monitoring of stacks every fortnight must also be carried out to cross check the data obtained from computerized monitoring by engaging a reputed organization. In addition, a monthly sulphur balance statement indicating type of fluid, its S – content, product S - content, SO <sub>2</sub> emission etc. may be made. Daily, fortnightly and monthly reports generated as above shall be sent to the SPCB and MOEF.	Shall be complied with.
v.	All the Sulphur Recovery Units shall have overall efficiency of 99.9%.	Sulphur Recovery Units (two chains) are being installed with overall efficiency of 99.9%.

vi.	Ultra Low – NO <sub>x</sub> burners shall be provided in the new furnaces to avoid excessive formation of NO <sub>x</sub> .	The ultra low NO <sub>x</sub> burners are provided in the following furnaces: CDU, VDU and VGO-HDT In balance furnaces, low NO <sub>x</sub> burners are provided.
vii.	Company shall install online SO <sub>2</sub> and NO <sub>x</sub> analysers in all the stacks of the refinery.	On-line SO <sub>2</sub> and NO <sub>x</sub> analysers are being installed in all the stacks of the refinery.
viii.	Fugitive emissions of HC from product storage tank farms etc. must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations. Necessary measures shall be adopted so as to ensure that the NMHC levels outside the refinery complex premises do not exceed prescribed limits. Monitored data shall be submitted to OPCB / CPCB every three months and to Ministry of Environment & Forests every six months.	Fugitive emissions of HC from product storage tank farms etc. shall be regularly monitored after commissioning the refinery.  Sensors for detecting HC leakage are being provided at strategic locations.  Monitored data shall be submitted to OPCB / CPCB quarterly.
ix.	For control of fugitive emissions, the company shall augment route all unsaturated hydrocarbons to the flare system in addition to the existing flare system. All the pumps and other equipment where there is a likelihood of HC leakages shall be provided with LEL indicators and also provide for immediate isolation of such equipment, in case of a leakage.  The company shall adopt Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions.	Shall be complied with.  Sensors for detecting HC leakage are being provided at all strategic locations.  Shall be complied with.
x.	All the stacks shall be of appropriate design and height shall be attached to pollution control systems, wherever necessary. All stacks in the complex must meet the minimum stack height criteria as prescribed in the Environment Protection emissions.	All the stacks' height has been designed considering the formula, $(H=14Q^{0.3})$ as prescribed in the Emission Standard. In PDRP, all the stacks' height are more than the calculated height.
xi.	All new standards/ norms which are being proposed by CPCB for refinery projects/ petrochemical units shall be applicable for the proposed expansion and modernization of the petrochemical refinery complex. These standards shall be incorporated into the detail designs for the proposed expansion and modernization. The existing refinery complex shall also be upgraded to the new above mentioned emission standards.	All new standards promulgated vide GOI Notification dated 18 <sup>th</sup> Mar, 2008 have been considered in the design of the refinery project.
xii.	Ground water shall not be tapped for construction, industrial or domestic uses including the township.	Being complied

xiii.	Liquid effluents shall be treated to conform to the standards stipulated by CPCB / Ministry of Environment & Forests under EPA 1986 and also the new norms being specified. Treated effluent will be recycled and reused. The treated effluent shall be discharged into the sea through a pipeline of about 3 km from low tide line. The domestic effluent after treatment and conforming to the prescribed standards shall be used for greenbelt development.	State-of-the-art effluent treatment plant is under construction with max. recycle facility. Balanced treated effluent after recycle shall be discharged into the sea.  The domestic effluent shall be treated along with industrial effluent and shall be reused.
xiv.	The company shall undertake monitoring of the groundwater quality at the locations as suggested by the Central Ground Water Board. Monitoring results of the same shall be submitted to the OPCB/CPCB and MOEF.	10 locations have been identified for monitoring of ground water quality. Monitoring shall be started after commissioning of the Refinery and results for the same shall be submitted to the OPCB/CPCB and MOEF.
xv.	M/s IOCL shall undertake rainwater harvesting measures to recharge the ground water in the area in consultation with Central Ground Water Board and Orissa Pollution Control Board.	Two storm water reservoirs (Capacities: 2,96,000 KL and 3,13,000 KL) have been developed to store rain water in monsoon in the refinery premises. The stored water shall be used in lean season.  Further, study is being carried out to explore more scope of rain water harvesting.
xvi.	Green belt shall be raised in 580 acre area as per CPCB guidelines.	Greenbelt has been developed in an area of 580 acres with the help of Orissa Forest Development Corporation Ltd. (OFDCL). So far 5,87,000 trees have been planted around the refinery area. Additionally, approx. 50,682 trees have been planted in the township.
xvii.	Occupational Health Surveillance of the employees and workers shall be done on a regular basis and records maintained as per the Factories Act.	Shall be complied with.
xviii.	The marine water quality shall be regularly monitored for the water quality (temperature, petroleum hydrocarbons, phenols, sulphides, total organic carbon), sediment quality (trace elements, petroleum hydrocarbons, TOC and sediment size) and biological parameters (primary productivity, benthos, fish quality and growth, biomass, phytoplankton and zooplankton).	Shall be complied
xix.	The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the oil shall be governed by ASME/ANSI B31.8/B31.4 and OISD standard 141.	These are being taken care during design and construction stage.
xx.	The project authorities should install SCADA system with dedicated optical fibre based telecommunication link for safe operation of pipeline and Leak Detection System.  Intelligent pigging facility should be provided for the entire pipeline system for internal corrosion monitoring.	Being complied with.  Pigging facility is being provided in crude pipeline.

	Coating and impressed current cathodic protection system should be provided to prevent external corrosion.	Cathodic protection system is being provided.
xxi.	The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey should be carried out at regular intervals to ensure the adequacy of cathodic protection system.	Shall be complied with.
xxii.	<p>The solid waste shall be disposed off in secured landfill facility within the refinery. The spent catalyst and incinerated sludge will be stored in segregated manner in the secured landfill area. Tank bottom sludge from refinery operation shall be put to oil recovery system and the residual sludge will be incinerated. The incinerated sludge ash shall be stored in secured landfill inside refinery.</p> <p>Bio sludge shall be stored in drying pit for natural weathering and then used as manure inside refinery premises.</p>	<p>Work is in progress for developing Secured Landfill system in which all the hazardous solid waste including incinerated material shall be disposed off.</p> <p>Bio sludge shall be used as manure after drying.</p>
xxiii.	The company shall also comply with all the conditions and safeguards prescribed in the EIA & Risk Assessment Reports.	Being complied with.
xxiv.	The On-site and Off-site Emergency Preparedness Plans, Oil Spill Contingency Plans, Marine Disaster Management Plan shall be prepared for the enhanced refinery throughput and submitted to the Ministry before commissioning at the enhanced capacity.	<p>Complied with. Provisional approval obtained for on-site plan. Final approval after conducting Mock-drill.</p> <p>Complied with Off-site emergency plan incorporating Paradip Refinery published by District Authority.</p> <p>MOU made on 30th January, 2008 between Paradip Port Trust (PPT) and Oil companies (IOCL, HPCL, BPCL and Others) on TIER-I Oil Spill Combating Facilities at Paradip Port. Copy of the same already submitted on 21st March, 2009.</p>
xxv.	The Environment Management Cell and laboratory facilities for the collection of the samples shall be augmented with suitable facilities and qualified personnel and directly report to the chief executive of the refinery complex.	<p>The Environment Management Cell exists under General Manager in the Refinery.</p> <p>The Laboratory and other monitoring facilities are being developed.</p>
xxvi.	The company shall prepare comprehensive EIA/EMP report and submit to the Ministry within one year.	Comprehensive EIA Report is prepared and submitted to OPCB on 12.09.2008 and MOEF on 22.09.2008.
<b>B.</b>	<b>GENERAL CONDITIONS:</b>	
i.	The project authorities must strictly adhere to the stipulations made by the Orissa State Pollution Control Board and the State Government.	Shall be complied with.

ii.	No further expansion or modernization in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Shall be complied with.
iii.	At no time, the emissions shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Shall be complied with.
iv.	The overall noise levels in and around the plant area should be kept well within the standards (75 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Shall be complied with.
v.	The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the project.	Shall be Complied
vi.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.	Shall be complied with  Authorization shall be taken from OPCB prior to the commissioning of the facility.
vii.	The project authorities will provide requisite funds both recurring and non-recurring 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 should not be diverted for any other purposes.	Shall be complied with.
viii.	The stipulated conditions will be monitored by the Regional of this Ministry at Bhubaneshwar / Central Pollution Control Board / State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly.	Being complied with.
ix.	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">http:// www.envfor.nic.in</a> . This should 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 should be forwarded to the Regional Office.	The information has been published in the two daily local newspapers i.e. 'The Samaj' in Oriya and 'The Indian Express' in English dated 18.07.2007. Copy has already been submitted.
x.	The Project Authorities should 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.	The Board of Directors of IOCL accorded investment approval on 28.02.2009 for the project.  Project Construction work is in progress.

**Annexure-B**

**Sub: Compliance Status for Half Yearly Compliance Report in respect of Conditions of the CRZ Clearance for laying of Storm Water Outfall Pipelines to sea for Paradip Refinery Project. (Letter F. No.11-86/2011-IA III dated 21st February 2012)**

<b><u>S.I</u></b>	<b><u>SPECIFIC CONDITIONS :</u></b>	
4(i)	"Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted' to the Ministry before start of any construction work at the site.	"Consent for Establishment" obtained vide letter no. 12048 lind-II-NOC- 4600 dated 25-06-2012
(ii)	The proposed storm water line shall be laid along the Crude Oil pipeline corridor which was accorded CRZ clearance for transportation of crude oil after the recommendation of the SCZMA.  However, the proponent shall submit the CRZ map showing the proposed pipeline route to SCZMA with a copy to the Ministry before commencement of the work.	Complied with  CRZ map has already been submitted  (Ref No. IOCL/PDRP/LSTK-11/1/014)
(iii)	The unit shall provide separate drains and collection system at the process area so as to prevent any possible mixing of process spillage in to storm water as proposed.	Complied with  Separate drains for storm water and process drains have been provided in the process area of the Refinery.
(iv)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Separate Environment Management Cell exists under a General Manager in the Refinery to take care of all the environmental issues.
(v)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Shall be complied with
	<b><u>GENERAL CONDITIONS:</u></b>	
5(i)	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Shall be complied with
(ii)'	Full support shall be extended to the officers of this Ministry/ Regional Office at Bhubaneswar by the project proponent during	Shall be complied with

	inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental' protection activities.	
(iii)	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhubaneswar regarding the implementation of the stipulated conditions.	Being complied with
(iv)	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	Agreed
(v)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Agreed
(vi)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Shall be complied with
(vii)	The project proponents 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 land development work.	This is the part of the entire Refinery Project. The Board of Directors of IOCL accorded investment approval for the entire project at Paradip on 28.02.2009 for the project.  Project Construction work is in progress.
(viii)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's office for 30 days.	--
6	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter	Agreed
7	All other statutory clearances such as the approvals for storage of diesel from Chief Controller. of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Agreed
8	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the- project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The	Complied with Advertisement placed in two news papers (One is "The Samaj" and other is "The Times of India", dated 1st March'12) and same is enclosed as Annexure-1.



	advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhubaneswar.	
9	Environmental clearance is subject to final order of the Hon'ble-Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Agreed
10	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website	Uploaded
11.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	
12	The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, the respective Zonal Office of CPCB. and the SPCB.	Shall be complied with
13	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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail	Shall be complied with

**Annexure-C**

**Compliance Status for: CRZ Clearance for laying of pipeline from Paradip Refinery to South Jetty at Paradip Port, Odisha (Letter F. No. 11-33/2013-IA III, Government of India, Ministry of Environment & Forests (IA Division), Dated 19th September, 2013)**

<b><u>S.I</u></b>	<b><u>SPECIFIC CONDITIONS :</u></b>	<b><u>Status</u></b>
5(i)	"Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	"Consent for Establishment" obtained vide letter no 12048 lind-II-NOC- 4600 dated 25-06-2012. Copy has been submitted to the ministry vide letter no.PDRP/HSE/CRZ/MoEF/2013-1 dated 03.10.2013.
(ii)	All the conditions of Forest Clearance dated 06/02/2013 shall be complied with.	Complied with. Compliance status already submitted and based on the status, Forest and Environment Dept. Govt. of Odisha has been issued a letter (Letter No. 10F(Cons)510/2012 23891/F&E. Dtd 20/11/13) to accord the final clearance.
(iii)	The laying of pipeline at creek shall be carried out in such a way that it shall not obstruct tidal flow of the creek.	Complied with
(iv)	All the conditions stipulated by the Odisha Coastal Zone Management Authority (OCZMA) shall be complied with.	Complied with.
(v)	Laying pipe line shall not be carried out during the breeding of olive Ridely turtle as committed vide undertaking dated 25.06.2013.	Shall be complied with
(vi)	Soil and water samples shall be regularly monitored along the pipeline route to check the leakage/contamination, if any and shall examine if any strengthening is required.	Shall be complied with
(vii)	Proper oil spillage contingency plan shall be put in place.	Shall be complied with
(viii)	It shall be ensured that there is no disturbance to people, houses or fishing activity as a result of the project.	Shall be complied with
(ix)	The smooth and safe operation of the system shall be ensured by incorporating a computerized SCADA (Supervisory Control And Data Automation) system. Any leakage in the pipeline shall be immediately detected by the Computer system and product pumping shall be immediately cut off.	Shall be Complied with  SCADA system considered in the design.
(x)	All the recommendation of the EMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to	Compliance report of EIA has been prepared and enclosed as Annexure-2)

	MoEF along with half yearly compliance report to MoEF-RO.	
(xi)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Separate Environment Management Cell exists under General Manager in the Refinery to take care of all the environmental issues.
(xii)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Shall be complied with.
	GENERAL CONDITIONS :	
6(i)	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Shall be complied with
(ii)	Full support shall be extended to the officers of this Ministry/Regional Office at Bhubaneswar by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Shall be complied with
(iii)	A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhubaneswar regarding the implementation of the stipulated conditions.	Complied with
(iv)	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	Agreed
(v)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Agreed
(vi)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Agreed
(vii)	The project proponents 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 land development work.	The Board of Directors of IOCL accorded investment approval on 28.02.2009 for the project.  Project Construction work is in progress.
(viii)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's office for 30 days.	---
9	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within 10 days from the date	Complied with.  Advertisement placed in two news papers (One is "The Samaj" and other is "The New Indian Express", dated 29th Sept'13) and same is enclosed as Annexure-3.

	of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhubaneswar.	
11	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Complied with
12	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied with
14	The proponent shall upload the status of compliance of the stipulated 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 MoEF, the respective Zonal Office of CPCB and the SPCB.	Shall be complied with
15	The environmental statement for each financial year ending 31st March in Form-Vas 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 Clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Shall be complied with



**Indian Oil Corporation Ltd.**  
Paradip Refinery Project, Project Office  
Jagatsinghpur, Paradip, Odisha

**PUBLIC NOTICE**

**Date : 01.03.2012**

It is for the information of general public that the Storm Water Outfall package under Paradip Refinery cum Petrochemical Complex at Paradip has been accorded Environmental clearance by Ministry of Environment & Forests, Govt. of India vide Letter No. F.No.11-86/2011-IA-III, dated 21st Feb'12. Copies of the clearance letter are available with the Odisha State Pollution Control Board and may also be seen at the website of Ministry of Environment & Forests at website : <http://www.envfor.nic.in>.

**Utpal Sen**  
**GM-Projects**

“The Times of India”

## Annexure-2

### Recommendation of EMP

S.L	Compliance Condition	Status
1	<p>The wastewater from vehicle and construction equipment maintenance centre will contribute to oil and grease concentration. The mitigation measures recommended to minimize the impacts are:</p> <ul style="list-style-type: none"> <li>• The vehicle maintenance area should be located in such a manner to prevent contamination of surface and ground water sources by accidental spillages of oil</li> <li>• Precautions shall be taken that no spoil banks are formed as a result of pipeline laying to ensure minimum alteration of sedimentary patterns of the flowing water bodies and Pipelines shall be continually monitored visually for leaks once a day.</li> </ul>	Shall be complied with.
2	<p>Operation of construction equipment and vehicular traffic contribute to the increased noise level. However, the noise impact on the surrounding population during the construction phase may not have adverse impact. High noise generating equipment, if any used, shall not be operated during the night time to eliminate any possible discomfort to the nearby residents.</p> <p>Recommended mitigation measures are:</p> <ul style="list-style-type: none"> <li>• Enclosures for noise making units like pumps, compressors etc</li> <li>• Good maintenance of vehicles and construction equipment</li> <li>• Access roads shall be maintained, to limit vehicle noise</li> <li>• Equipment shall be turned off when not in use</li> <li>• Provision of earplugs and earmuffs to workers</li> </ul>	Being complied with
3	<p><b>Storage of Hazardous Materials</b></p> <p>The hazardous materials used during the construction may include diesel, welding gas and paints. These materials shall be handled according to the safety guidelines of the existing refinery and shall not be stored within 100 m of any surface drainage location.</p>	Shall be complied with.
4	<p><b>Site Security</b></p> <p>Since the construction activities will be carried out for a stretch of about 8 km, adequate security arrangement shall be made. This ensures that the local inhabitants and the stray cattle are not exposed to the potential hazards of construction activities.</p>	Shall be complied with.
	<p><b>Management of Socio-Economic and Cultural Environment</b></p> <ul style="list-style-type: none"> <li>• Proper implementation of EMP would mitigate adverse impacts in the region</li> <li>• Prior information about the project should be given to locals in study area</li> <li>• An emergency plan should be prepared in advance, to deal with fire fighting and the related risk due to construction activities</li> <li>• All construction material and equipment should be stored in a neat and orderly manner so that there will not be any nuisance to the public</li> <li>• Local people if employable can be considered for construction work to the extent possible</li> <li>• Proper facility for domestic water supply, sanitation, domestic fuel and other essential community services will be made available to the construction workers</li> </ul>	Being Complied with
	<p><b>Pipeline design measures</b></p> <ul style="list-style-type: none"> <li>• Adhering to design regulations, codes and standards;</li> </ul>	Being Complied with

	<ul style="list-style-type: none"> <li>• Incorporating pipeline design considerations such as the use of high-quality steel, protective coatings, cathodic protection, increased buried depth and safe construction practices etc;</li> <li>• Additional safety features such as OFC based leak and intrusion detection system with signals at central control room, and</li> <li>• Provision of geo-grids, continuous concrete coating at identified stretches of pipeline.</li> </ul>	
	<p>Pipeline Construction Measures</p> <ul style="list-style-type: none"> <li>• Planning the pipeline route to avoid sensitive areas;</li> <li>• Implementing the construction environmental management plan;</li> <li>• Inspecting the pipelines to verify that they are being constructed as designed and according to the construction EMP; and</li> <li>• Inspection and Testing as per design codes and standards including hydro testing and gauging;</li> </ul>	Being Complied with
	<p>Pipeline Operation Measures</p> <ul style="list-style-type: none"> <li>• Conducting routine ground monitoring</li> <li>• Maintaining cathodic protection</li> <li>• Marking the RoW clearly at the public roads and creek crossings</li> <li>• Monitoring of leak detection systems</li> <li>• Developing emergency response plans</li> <li>• Providing emergency response equipment and training for all emergency responses associated with operations</li> <li>• Placing pipeline maintenance crews, trained and equipped for emergency response, strategically along the pipeline route</li> <li>• Testing response equipment regularly and replacing or improving equipment as new technology becomes available</li> <li>• Conducting regular mock response exercises with IOCL personnel and local emergency response providers</li> </ul>	<p>Being complied with Being complied with Being complied with</p> <p>Shall be complied with Complied with Being complied with</p> <p>Shall be complied with</p> <p>Shall be complied with</p> <p>Shall be complied with</p>



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## ON WORKS LIMITED


(A Government of Odisha Undertaking)  
Bhubaneswar, Dist: Keonjhar (Odisha)  
Fax: (06767) 270003

NO. IKIWL/COM-MKT(PID)/  
-11.09.2013

**SED G.C.I. SHEETS.**

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13 till 4.00 PM. All other terms  
anged. For details please visit

**Managing Director**

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ସାଧାରଣ କେନ୍ଦ୍ର ପ୍ରାଣାଗତ ପାଦାଗମ ବିଶାଳତା  
ନିମ୍ନରେ ଦର୍ଶାଯାଇ ଏହା ଏକ କର୍ମସୂଚୀରେ ନିର୍ଦ୍ଧାରିତ  
CRZ ମଧ୍ୟରେ, ପରିକଳ୍ପଣ ଏବଂ ବନ ମାନ୍ୟତା  
(ଆଇ.ଏ.ଏ.ବି.ଏ.) ଦ୍ଵାରା କର୍ମସୂଚୀରେ ନିର୍ଦ୍ଧାରିତ  
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SB Mishra said efforts were underway to restore normalcy.

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**IndianOil**

Refineries Division - Paradip Refinery Project

## NOTICE

CRZ clearance for laying of pipeline from Paradip Refinery to South Jetty at Paradip Port, Odisha M/s Indian Oil Corporation Limited has been accorded by Ministry of Environment & Forests (IA Division) as per the provisions of Coastal Regulation Zone Notification 2011 on 19th Sep, 2013. Copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forest at <http://www.envfor.nic.in>.