



ऑयल इंडिया लिमिटेड

**Oil India Limited**

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16.05.2024

PL/S&E/47/2024/081

To,

**Deputy Inspector General of Forest (C)**

**Ministry of Environment, Forest and CC**

**Sub Office,**

**4<sup>th</sup> Floor Housefed Building**

**G.S. Road, Rukminigaon**

**Guwahati 781022**

**FAX No: 0361-2330984**

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**Sub. : Monitoring & Compliance Report No. 38 to MoEF's Environmental Clearance No. J-11011/219/2004-IA II (I), dated 09-02-2005 "Pipeline Expansion Project from Numaligarh to Siliguri (Rangapani) of Oil India Limited".**

Ref. EC No. J-11011/219/2004-IA II (I), dated 09-02-2005.

Sir,

We are forwarding herewith the Monitoring & Compliance Report No. 38 compiled as per format on the above subject covering period from 01.10.2023 to 31.03.2024 for your kind information and perusal please.

Thanking you,

Yours faithfully,  
OIL INDIA LIMITED

A.K. Agrawal

General Manager (Fire Services)

For: Chief General Manager (Safety & Environment)PL

For: **Executive Director (Pipeline Services)**

Monitoring Report No.38 Dated 16.05.2024  
(Covering period 01.10.2023 to 31.03.2024)

**Part - I**

**DATA – SHEET**

F. No.	<b>NO. J-11011/219/2004 –IA II(i) dated 9 th. Feb.'2005</b>	
1.	Project type: River – Valley/Mining/Industry/Thermal / Nuclear / Other (specify)	: Pipeline Expansion Project
2.	Name of the project	: Pipeline Expansion Project from Numaligarh to Siliguri
3.	Clearance letter (s) / OM No. & date.	: No.: J-11011/219/2004 –IA II(i), dated 9 th. Feb.'2005
4.	Locations:	
	a. District (s)	: Golaghat, Nagaon, Morigaon, Kamrup(Metro),Kamrup Barpeta, Nalbari, Bongaigaon, Chirang & Kokrajhar
	b. State (s)	: Assam
	c. Latitudes / Longitudes	<b>NRL :</b> Lat : N 26° 35', Long.: E 93° 47 ' <b>Sankosh :</b> Lat: N 26°27' , Long.: E89° 51'
5.	Address of correspondence:	
	a. Address of concerned Project Chief Engineer (with pincode) & telephone / telex/fax numbers	CE ( Pipeline Project ) Pipeline Head Quarter Oil India Limited. PHQ PIN : 781 171 Ph. : 0361- 2643725,2640145
	b. Address of Executive Project Engineer /Manager (with pin code) & telephone / telex/fax numbers	: CGM ( Pipeline Project ) Pipeline Head Quarter Oil India Limited. PHQ PIN : 781 171 Ph. : 0361- 2641145
6.	Salient features:	
	a. of the project.	Length : 660 km, including existing 259 km Loop segments
	b. of the environmental management	(Assam 197 new construction + 259 KM old Pipeline in Assam. Project Cost: 468.92 crores ( estimated) ( Assam + West Bengal) Size : 406 mm (16") Design capacity : 1.721 MMTPA

		<p>Product : HSD (1367 TMTA), SKO (219 TMTA), MS (135 TMTA)</p> <p>Pumping stations : One at Numaligarh</p> <p>Receipt Terminal : At Siliguri within NRL's Receiving Terminal</p> <p>Intermediate Pigging Station : 4 nos. located within existing pump stations at <b>Sekoni</b> (PS4), <b>Noonmati</b> (PS5), <b>Bongaigaon</b> (PS6) and <b>Madarihat</b> (PS7) .</p> <p>SCADA &amp; APPS for monitoring, leak detection &amp; batch tracking.</p> <p>Cathodic protection and injection of corrosion inhibitor for internal corrosion.</p> <p>Use of pre coated pipe.</p>
7.	Break up of the project area:	: None
	a. Submergence area (forest & non forest)	No submergence on any area taken place.
	b. Others	<p>Only the following ROU acquisition has taken place :</p> <p>At river crossings ( 11 locations)</p> <p>: <b>6.214 Km</b></p> <p>Tea garden Land : 9.007 km</p> <p>To avoid Rly tracks : <b>2.045 Km</b></p>
8.	Break up of project affected population, with enumeration of those losing houses / dwelling units only, agricultural land and land less labourers / artisans	
	a. SC, ST/Adivasis	NIL
	b. Others	NIL
9.	Financial Details:	
	a. Project cost as originally planned and subsequent revised estimates and the years of price reference.	Rs. 468.92 Crore (Combined Assam and West Bengal)
	b. Allocations made for environmental Management plans, with item-wise and years wise break up.	Rs. 3.0 crore (Combined Assam and West Bengal)
	c. Benefit cost ratio/internal rate of return and the year of Assessment.	IRR: 19.17% before tax and 16.19% after tax.
	d. Whether (c) includes the cost of Environmental Management as shown in	Yes

	(b) above.	
	e. Actual expenditure incurred on the Project so far.	Rs. 447.44 Crores
	f. Actual expenditure incurred on the Environmental Management plans so far.	Rs. 54, 67,825/- till date in Assam. However, actual total expenses in Assam & WB on Environmental Management plan has exceeded (b).
10.	Forest land requirement:	
	a. The status of approval for a diversion of forest land for non-forestry use.	No forest land diversion was needed as the pipeline is passing through OIL's old ROW in Panbari, Magurmari, Phukagaon and Guma Forest. There will be no activity inside KNP.
	b. The status of compensatory Afforestation, if any.	1) Payment made for the Plantation Proposal received from DFO, Golaghat. 2) Payment made by OIL for Plantation & afforestation near Jalukbari. 3) Cost of one anti poaching camp sponsored by OIL at Panbari.
	c. The status of clear felling.	No tree felling was required inside forest area.
	d. Comments on the viability & sustainability of compensatory Afforestation programme in the light of actual field experience so far.	C. A. scheme was implemented by Deptt of Forest, Assam and financed from Project Department of OIL.
11.	The status of clear felling in non-Forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	: Felling of shading trees of Tea garden and uprooting of tea bushes took place in newly acquired ROU near Borchapori & Numaligarh under the supervision of Forest deptt. of Assam.
12.	Status of construction	
	a. Date of commencement (actual and / Planed)	NSPL was commissioned on 27.08.2008. Filling Pipeline with Product was completed on 24.04.2009.
	b. Date of completion (actual and / Planned)	
13.	Reasons for the delay if the project is yet to start	: Not applicable as project is presently in operation stage.

14.	Date of site visits	
	<p>a. The dates on which the projects was monitored by the regional office on previous occasions, if any.</p> <p>b. Date of site visit for this monitoring report.</p>	<p>: From 06.03.2006 to 08.03.2006 by joint Director (S) MoEF, Shillong Mr. S. C. Katiyar.</p> <p>: From 15.06.2006 to 16.06.2006 by Joint Director (S) MoEF Shillong Mr. H. S. Malviya.</p> <p>: 21.05.2007 to 23.05.2007 a team of Officials of CPCB led by Mr. A. Chattapadhyaya &amp; Mr. S. Dutta visited Project sites.</p> <p>: 25.02.2008 to 27.02.2008 by Joint Director (S) MoEF, Shillong Dr. S.C.Katiyar.</p> <p>: On 03.03.2009 by Joint Director (S) MoEF, Shillong Dr. S.C.Katiyar.</p> <p>: 07.10.2016 to 12.10.2016 by Adviser NE Regional Office, Shillong visited PS6, Bongaigaon &amp; PS7, Madarihat.</p> <p>: On 16.01.2018 by Dr. V.P.Upadhyay , Scientist 'G', MoEF &amp;CC, Shillong</p> <p>: From 22.11.2021 to 24.11.2021 by Dr.H.Hazarika , Scientist 'D' &amp; team from IRO , Ghy.</p> <p>: On 30.05.2022 by Dr. H. Hazarika, Scientist 'D' &amp; team from IRO, Ghy.</p>
15.	Details of correspondence with project Authorities for obtaining action Plans, information & status of Compliance to safe guards.	<p>: Was in constant touch with Forest officials for their guidance during 75 kms NRL-GHY section. For the Sector from Barpeta Road to Sankosh laying activity inside the reserve forest area is completed under constant Coordination and guidance of Deptt. of Forest.</p>

## Part –II

### CHECK LIST OF COMPLIANCE

Clearance OM /Letter No. & date: :: J-11011/219/2004 –IA II(i) dated 9 th. Feb.'2005

#### Pipeline Expansion Project from Numaligarh to Siliguri ( Phase-I ) of M/s Oil India Limited

Specific	Condition (state briefly)	Status of compliance
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Condition	(1)	(2)
i)	Design, Material of construction , assembly, inspection , testing and safety of Pipeline	<b>Complied</b>
ii)	Safety audit	OISD team carried out the safety audit of NSPL installations in the month of June'2008 and cleared for commissioning. ISA was carried out every year since 2009. 1 <sup>st</sup> round of ESA by OISD was carried out in March 2013 followed by 2 <sup>nd</sup> Audit in the month of May 2018 . Safety Audit is carried out Annually by Multi-disciplinary team members and report submitted for implementation of the points. Audit report for the year 2022 circulated vide email dated 02.02.2023. Hence point is complied.
iii)	River crossing & riverbed, dyke, embankments restoration	All such crossing jobs completed and restoration done. NOCs obtained from authorities concerned.
iv)	River crossings	Designed as per ASME / ANSI requirement and executed accordingly.
v)	HDD for rivers	<p>i) <b>HDD technology used</b> for crossing all the major rivers in Assam, viz: Kopili, Digaru, Puthimari, Chaulkhowa, Dumarkijan, Pallah, Bhulkadoba; Dulani, Manas, Gaurang and Gangya and <b>Micro Tunneling technology used</b> for crossing the rivers like Beki, Aie, Garufella, Haruaputa and Sankosh.</p> <p>ii) M/S Engineers India Ltd (EIL) was the Engineering Project Management Consultant (EPMC) for the NSPL project and technical specifications for all river/ Rivulet/waterbody/ nullah/canal / embankment crossings were designed by them taking into account of maximum safety factor considering seismic vulnerability of the area, high flood prone zone, scour depth of the river, Whirlpool effect analysis etc.</p> <p>iii) Out of total 654.3 Km of NSPL Pipeline, <b>only 194.13 Km new Pipeline was laid in Assam in 3 specific segments :</b> i) <b>34.5 Km</b> between Numaligarh Dispatch Terminal and Kaziranga Repeater Station (SV1 of NSPL system), (ii) <b>39.5 Km</b> between Ghani Repeater Station (SV2 of NSPL Pipeline) and Jagiroad Repeater Station ( SV3 of NSPL Pipeline) and (iii) <b>120.3 Km</b> up to Srirampur ( Assam-Bengal border) from Barpeta Road Repeater Station ( SV5 of NSPL pipeline)</p>

		<p>iv)Existing <b>259 Km old crude oil pipelines were converted to product Pipeline for NSPL project in Assam sector for segments like-98.8 Km loop line</b> commissioned in 1977 between Kaziranga and Ghani Repeater Stations and <b>48.2 Km old Pipeline of DBSN project of 1988-89 was revived as RGJL project in 2005-2006 for the segment between Ghani and Jagiroad Repeater Stations</b> <b>No Pipeline laying was required across Bramhaputra river for the NSPL Project</b>, as the existing 112 Km crude oil loop line constructed in 1977 from Noonmati Pump Station ( IP2 of NSPL Pipeline) to Barpeta Road Repeater Station( SV5 of NSPL Pipeline), was used for NSPL project</p> <p>Out of total 654.3 Km of NSPL Pipeline, <b>entire stretch of 201 Km length Pipeline in WB had to be laid afresh</b> from Srirampur ( Assam-Bengal border) to Rangapani Termial Siliguri</p> <p><b>Bramhaputra River Crossing:</b> Crude Oil Pipeline of OIL commissioned in 1960s crossed Bramhaputra river through Saraighat Railway/ Road Bridge with due approval from GoI in 1961. GoI approved the same, as after detail investigation by Burmah Oil Company Ltd (PL) for months together could observe that the submerged crossing is not possible for Bramhaputra river due to fast running flood water, Shifting of Pot holes in the river silt, Whirlpools, complicated approaches at both banks etc and the plan B to cross the river by constructing a Suspension bridge across river Bramhaputra was also a challenging task.</p> <p><b><u>Subsequent other facilities of OIL/IOCL also used the Saraighat Rail/Road bridge to cross the Bramhaputra river are:</u></b></p> <p>8" Product Pipeline of IOCL from Guwahati Refinery to Siliguri Terminal, commissioned on 20<sup>th</sup> December, 1964</p> <p>12 Km loop line laid by OIL in 1977 from Noonmati Pump Station ( Guwahati) to Barpeta Road Repeater Station (RS9)</p> <p>Laying of OIL's OFC cable along the entire stretch of 1,157 KM Crude Oil Pipeline ROW during 2004-05</p> <p>Thus, the portion of the Pipeline of NSPL in</p>
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		Saraighat Rail/Road Bridge has been utilized from the Old Pipeline and is not a portion of pipeline Expansion. Hence, HDD of Pipeline passing through all major rivers under the Pipeline expansion EC was done.
vi)	Plantation	<p>The new portion of the NSPL pipeline under Pipeline expansion project (34.5 Km + 39.5 Km + 120.3 Km) was laid within the same Right of Way (RoW) of existing Crude oil Pipeline. The entire stretch of RoW which is 18.2-meter wide is kept free all along from growth of any vegetation or trees. Therefore, while laying the NSPL line there was no involvement of felling of trees. Thus, planting of minimum 10 trees for every tree cut along the Pipeline route did not arise.</p> <p>In this regard, since a diversion of 1 Ha of forest Land was obtained from MoEF for laying of new NSPL Pipeline parallel to existing crude oil line crossing Panbari RF, an amount of Rs 8,26,000.00 had been paid to DFO Golaghat for Compensatory afforestation. <b>Hence point is complied with.</b></p>
vii)	SCADA, OFC communication, Cathodic Protection, Intelligent Pigging etc.	<b>Complied with.</b>
viii)	OISD Norms for Pearson & CP survey, monitoring	CIPL carried out after commissioning of the Pipeline Project. <b>Complied with.</b>
ix)	Fire water & OISD – 117	Extended from NRL mains at Numaligarh Despatch Terminal (NDT).
x)	Green Belt	<p>None of the Intermediate Pigging (IP)-Stations- Sekoni, Noonmati, Bongaigaon in Assam required additional land acquisition in connection with the NSPL projects, as the small set up of the NSPL facilities are well accommodated within the premises of the existing Pump Stations constructed in 1960. Hence green belt development within the premises of 1960s does not arise in connection with the NSPL project as the facilities are accommodated within the premises of the Pump stations of 1960s.</p> <p>However, within the premises of the IP stations of OIL (Sekoni, Noonmati and Bongaigaon ) various fruit bearing trees like Mango, Guava ,Gooseberry, berry, Jackfruit and non-fruit bearing like Neem, Azar Kanchan etc. are planted every year to maintain the Green belt</p>
xi)	No development zone	No segment of NSPL Pipeline had been laid in any 'No Development Zone' or Wildlife Sanctuary' or any other Protected areas of Assam, attracting mitigation measures of Wildlife during Pipeline Construction. It



		<p>touched only three Reserved Forest viz: Panbari, Phukagaon, and Magurmaru .</p> <p>New Pipeline was laid for 34.5 Km between Numaligarh Dispatch Terminal and Repeater Station no 3 (RS-03) parallel to the existing crude Oil Pipeline RoW. Necessary approval for laying of Pipeline in the Panbari Reserve Forest area was obtained from MoEF&amp;CC vide ref no No.3-AS B010/2004-SHI/A dated 03.12.2004 . Copy submitted via letter No. PL/S&amp;E/47/2022/135 dated 24.06.2022. As mentioned in the factual finding report 4.5 KM of the NSPL Pipeline portion is falling within this 34.5 KM Line</p> <p>Here we would like to mention that so far as maintenance activities of the old line is concerned, necessary permission from the Forest Authorities is always obtained. A sample copy of permission for carrying out the maintenance job in OIL RoW passing through Kaziranga National Park handed over vide our letter No. PL/S&amp;E/47/2022/135 dated 24.06.2022.</p>
	<b>General Condition</b>	
i)	APCB stipulation	NDT to Sankosh river: <b>Complied.</b>
ii)	No change of Route & OISD standard to be adhered to.	<b>Complied.</b>
iii)	Care for wildlife, forest power line, buildings or placed habitation	Adequate care taken with guidance from concerned Deptt.
iv)	CIF, CCE & Fire approval	<b>Complied.</b>
v)	Detailed Risk analysis	RRA study was carried out by M/s EIL. EMP was also prepared by M/s EIL.
vi)	Infrastructure facilities to construction workers	Provided.
vii)	EMP & RRA implementation	<b>Complied.</b>
viii)	Social Upliftment	Being an expansion Project it is covered by the existing schemes of OIL.
ix)	Environment Management Cell	Exists headed by CGM(S&E) at Pipeline with support from S&E Department at Field Headquarter.
x)	Environment Fund of Rs. 300 lakhs	Utilized for environment related expenses for the entire project including West Bengal Sector. Hence <b>Complied.</b>
xi)	Six Monthly Compliance Report	<b>Complied .</b>
xii)	A separate Environmental Cell with laboratory facility	The existing Cell uses the laboratory facilities of APCB & Public Analyst, Govt. of Assam and IOCL, Ghy, NEIST, Jorhat and Chemical Deptt., OIL Dulaijan.
xiii)	Inform Public of MoEF clearance	Press advertisement done.
xiv)	Final closure date	NSPL commissioned on 27.08.2008. Pipeline filling with Product completed on 24.04.2009.

	The Pipeline is in operation since then.
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### **Part –III**

Descriptive Report on status of compliance to conditions of environment clearance and environment management.

1.	Clearance letter/OM No. & Date: J-11011/219/2004 –IA II(i) dated 9 th. Feb.'2005 from MOEF	
A.	<u>Compliance to condition of environment clearance.</u>	
Condition (i):	The design, material of construction, assembly, Inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/ petroleum products shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.	
Status of Compliance:	<b>Complied</b>	
Condition (ii):	Annual safety audit should be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.	
Status of Compliance:	Is being Carried out. OISD team carried out the safety audit of NSPL installations in the month of June'2008 and cleared for commissioning. ISA was carried out every year since 2009. 1 <sup>st</sup> round of ESA by OISD was carried out in March 2013 followed by 2 <sup>nd</sup> Audit in the month of May 2018 . Safety Audit is carried out Annually by Multi-disciplinary team members and report submitted for implementation of the points. Audit report for the year 2022 submitted vide email dated 02.02.2023. . Hence point is complied.	
Condition (iii):	The construction of pipeline particularly at the river and stream crossing should be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.	
Status of Compliance:	<b>Complied.</b> Since completed.	
Condition (iv):	Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings should be in conformity with ANSI / ASME requirements.	
Status of Compliance:	<b>Complied.</b>	
Condition (v):	The company should follow horizontal drilling technique for laying of pipeline while passing through major rivers.	
Status of Compliance:	<p><b>i) HDD technology used</b> for crossing all the major rivers in Assam, viz: Kopili, Digaru, Puthimari, Chaulkhowa, Dumarkijan, Pallah, Bhulkadoba, Dulani, Manas, Gaurang and Gangya and <b>Micro Tunneling technology used</b> for crossing the rivers like Beki, Aie, Garufella, Haruaputa and Sankosh.</p> <p>ii)M/S Engineers India Ltd (EIL) was the Engineering Project Management Consultant (EPMC) for the NSPL project and technical specifications for all river/ Rivulet/waterbody/ nullah/canal / embankment crossings were designed by them taking into account of maximum safety factor considering seismic vulnerability of the area, high flood prone zone, scour depth of the river, Whirlpool effect analysis etc.</p>	

	<p>iii) Out of total 654.3 Km of NSPL Pipeline, <b>only 194.13 Km new Pipeline was laid in Assam in 3 specific segments</b> : i) <b>34.5 Km</b> between Numaligarh Dispatch Terminal and Kaziranga Repeater Station (SV1 of NSPL system), (ii) <b>39.5 Km</b> between Ghani Repeater Station (SV2 of NSPL Pipeline) and Jagiroad Repeater Station (SV3 of NSPL Pipeline) and (iii) <b>120.3 Km</b> up to Srirampur (Assam-Bengal border) from Barpeta Road Repeater Station (SV5 of NSPL pipeline)</p> <p>iv) <b>Existing 259 Km old crude oil pipelines were converted to product Pipeline for NSPL project in Assam sector for segments like- 98.8 Km loop line</b> commissioned in 1977 between Kaziranga and Ghani Repeater Stations and <b>48.2 Km</b> old Pipeline of DBSN project of 1988-89 was revived as RGJL project in 2005-2006 for the segment between Ghani and Jagiroad Repeater Stations <b>No Pipeline laying was required across Bramhaputra river for the NSPL Project</b>, as the existing 112 Km crude oil loop line constructed in 1977 from Noonmati Pump Station (IP2 of NSPL Pipeline) to Barpeta Road Repeater Station (SV5 of NSPL Pipeline), was used for NSPL project</p> <p>Out of total 654.3 Km of NSPL Pipeline, <b>entire stretch of 201 Km length Pipeline in WB had to be laid afresh</b> from Srirampur (Assam-Bengal border) to Rangapani Terminal Siliguri</p> <p><b>Bramhaputra River Crossing:</b> Crude Oil Pipeline of OIL commissioned in 1960s crossed Bramhaputra river through Saraighat Railway/ Road Bridge with due approval from GoI in 1961. GoI approved the same, as after detail investigation by Burmah Oil Company Ltd (PL) for months together could observe that the submerged crossing is not possible for Bramhaputra river due to fast running flood water, Shifting of Pot holes in the river silt, Whirlpools, complicated approaches at both banks etc and the plan B to cross the river by constructing a Suspension bridge across river Bramhaputra was also a challenging task.</p> <p><b><u>Subsequent other facilities of OIL/IOCL also used the Saraighat Rail/Road bridge to cross the Bramhaputra river are:</u></b></p> <p>8" Product Pipeline of IOCL from Guwahati Refinery to Siliguri Terminal, commissioned on 20<sup>th</sup> December, 1964</p> <p>12 Km loop line laid by OIL in 1977 from Noonmati Pump Station (Guwahati) to Barpeta Road Repeater Station (RS9)</p> <p>Laying of OIL's OFC cable along the entire stretch of 1,157 KM Crude Oil Pipeline ROW during 2004-05</p> <p>Thus, the portion of the Pipeline of NSPL in Saraighat Rail/Road Bridge has been utilized from the Old Pipeline and is not a portion of pipeline Expansion. Hence, HDD of Pipeline passing through all major rivers under the Pipeline expansion EC was done.</p>
Condition (vi):	The project authorities should plant a minimum of 10 trees for every tree cut along the pipeline route in construction with the local DFO (s).
Status of Compliance:	<p>The new portion of the NSPL pipeline under Pipeline expansion project (34.5 Km + 39.5 Km + 120.3 Km) was laid within the same Right of Way (RoW) of existing Crude oil Pipeline. The entire stretch of RoW which is 18.2-meter wide is kept free all along from growth of any vegetation or trees. Therefore, while laying the NSPL line there was no involvement of felling of trees. Thus, planting of minimum 10 trees for every tree cut along the Pipeline route did not arise.</p> <p>In this regard, since a diversion of 1 Ha of forest Land was obtained from MoEF for laying of new NSPL Pipeline parallel to existing crude oil line crossing Panbari RF, an amount of Rs 8,26,000.00 had been paid to DFO Golaghat for Compensatory</p>

	afforestation. <b>Hence point is complied with.</b>
Condition (vii):	The project authorities should install SCADA system with dedicated optical fibre based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive installations should be provided to prevent the amount of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility should be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system should be provided to prevent external corrosion.
Status of Compliance:	<b>Complied.</b>
Condition (viii):	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.
Status of Compliance:	A copy of the Coating Evaluation Survey report carried out in 2019-20. Pipeline is also regularly inspected through RoW Patrolling by line walker using GIS based equipment. However Company employees also inspected Pipeline from the respective stations and recorded in OIP-I . <b>Hence it is complied.</b>
Condition (ix):	The fire water facilities at the terminals must be designed as per OISD – 117 guidelines. However, for fighting prolonged fires, the company should firm up a plan for assured water supply from near by ground water source / surface water source. This must be complied before commissioning the project.
Status of Compliance:	NDT is located within the premises of Numaligarh Refinery Limited (NRL) complex and fire fighting facilities are extended from NRL's mains. Hence <b>complied.</b>
Condition (x):	Green belt should be provided to mitigate the effects of fugitive emission all around the intermediate pumping stations. A minimum of 25% of the total land acquired should be developed as green belt in consultation with the local DFO.
Status of Compliance:	NDT, the only pump station of NSPL project is covered by existing Green Belt around NRL complex. None of the Intermediate Pigging (IP)-Stations-Sekoni, Noonmati, Bongaigaon in Assam required additional land acquisition in connection with the NSPL projects, as the small set up of the NSPL facilities are well accommodated within the premises of the existing Pump Stations constructed in 1960. Hence green belt development within the premises of 1960s does not arise in connection with the NSPL project as the facilities are accommodated within the premises of the Pump stations of 1960s. However, within the premises of the IP stations of OIL (Sekoni, Noonmati and Bongaigaon ) various fruit bearing trees like Mango, Guava ,Gooseberry, berry, Jackfruit and non-fruit bearing like Neem, Azar Kanchan etc. are planted every year to maintain the Green belt . <b>Hence complied.</b>
Condition (xi):	The company shall take precautionary measures for uninterrupted movement of the wild animal while laying of the pipeline along the existing pipeline in the No Development zone. The company shall prepare action plan for implementation in this regard in consultation with CCF (Wildlife), Govt. of Assam.
Status of Compliance:	No segment of NSPL Pipeline had been laid in any 'No Development Zone' or Wildlife Sanctuary' or any other Protected areas of Assam, attracting mitigation measures of Wildlife during Pipeline Construction. It touched only three Reserved Forest viz: Panbari,Phukagaon, and Magurmaru .

	<p>New Pipeline was laid for 34.5 Km between Numaligarh Dispatch Terminal and Repeater Station no 3 (RS-03) parallel to the existing crude Oil Pipeline RoW. Necessary approval for laying of Pipeline in the Panbari Reserve Forest area was obtained from MoEF&amp;CC vide ref no No.3-AS B010/2004-SHI/A dated 03.12.2004 . Copy submitted vide letter No. PL/S&amp;E/47/2022/135 dated 24.06.2022. As mentioned in the factual finding report 4.5 KM of the NSPL Pipeline portion is falling within this 34.5 KM Line</p> <p>Here we would like to mention that so far as maintenance activities of the old line is concerned, necessary permission from the Forest Authorities is always obtained. A sample copy of permission for carrying out the maintenance job in OIL RoW passing through Kaziranga National Park handed over vide our letter No. PL/S&amp;E/47/2022/135 dated 24.06.2022.</p> <p>Also, action taken to frame an action plan on precautionary measures to be taken for uninterrupted movement of wild animal in the no development zone/ Panbari Reserved forest area. Draft plan prepared.</p>
<b>B.</b>	<b><u>General Conditions:</u></b>
Condition (i):	The project authority must adhere to the stipulations made by Assam State Pollution Control Board and State Government.
Status of Compliance:	Adhered to. Consent to operate, Authorisation for Hazardous Waste , etc are obtained and necessary returns submitted. Hence <b>complied</b> .
Condition (ii):	There will be no change in the pipeline route, design capacity without the prior approval of the Ministry. While laying the pipeline, OISD standards with regard to distance etc., from private buildings, industrial buildings or placed or habitation etc should be followed.
Status of Compliance:	<b>Complied</b>
Condition (iii):	During the project construction phase, adequate care must be exercised for protection to public life, wildlife, forest power line, buildings etc in the vicinity of pipeline and in consonance with local government's regulations.
Status of Compliance:	Adhered to. Hence <b>complied</b> .
Condition (iv):	The project authority must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended in 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fires Safety Inspectorate etc. must be obtained.
Status of Compliance:	<b>Complied.</b>
Condition (v):	Detail risk analysis of the pipeline and associated facilities must be done once the engineering design and layout is frozen. Based on this, on site and off-site emergency preparedness plan must be prepared. Approval from the nodal agency must be obtained before commissioning the project.
Status of Compliance:	RRA prepared by M/s EIL. Emergency plan made available for product pipeline also. Hence <b>complied</b> .
Condition (vi):	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.
Status of	Provided during entire construction jobs. Hence <b>complied</b> .

Compliance:	
Condition (vii):	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Management Plan and risk analysis report.
Status of Compliance:	<b>Complied.</b>
Condition (viii):	The project proponent should have a scheme for social uplift in the surrounding villages with reference to contribution in road construction, education of health centers, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.
Status of Compliance:	Taken care of as per the CSR Policy of the Company. In this regard, during the project period and further during operational phase OIL has implemented a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, education of health centers, sanitation facilities, drinking water supply, community awareness. For details our letter No. PL/S&E/47/2022/54 dated 04.03.2022 submitted to you may be referred.
Condition (ix):	A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring function.
Status of Compliance:	Exists. Refer Specific condition xii) of Part-II.
Condition (x):	The project authorities shall earmark an amount of Rs. 300 lakhs (as per question no. xxx of questionnaires) to implement the conditions stipulated by ministry of Environment & 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 purpose.
Status of Compliance:	<p>The Central Empowered Committee (CEC) advised Oil India Limited to contribute 3 Crore for the protection and conservation at the rate of Rs 1 Cr. each for each of the protected area of Mahananda Wildlife Sanctuary, Buxa Tiger Reserve and Jaldapara Wildlife Sanctuary. The amount collected by Forest Department, West Bengal is indicated in the letter No 5-WBC007/2006-BIIU dated 31.01.2007 in point no VII</p> <p>Additional an amount of Rs 1 Crore contributed vide draft no 876695 dated 24.10.2005 and letter ref no H-CB:10A:311 dated 25.11.2005 to West Bengal Forest Development Corporation Ltd.</p> <p>An amount of Rs 8,26,000.00 contributed vide draft no 786855 dated 17.03.2006 and letter ref no OIL/PLP/PEP-NSPL/8-8(a)/29 dated 17.04.2006 to Divisional Forest Officer Golaghat.</p> <p>An amount of Rs 4,69,900.00 contributed vide SBI draft no 522865 dated 08.06.2005 and letter ref no OIL/PLP/PEP-NSPL/6-5/170 dated 09.06.2005 to Eastern Assam Wildlife Division Bokakhat.</p> <p>An amount of Rs 63,52,825.00 contributed vide letter ref no OIL/PLP/PEP-NSPL/6-5/908 dated 26.03.2005 to Principal Chief Conservator of Forest, Assam for diversion of 5 ha of Forest land for laying of Product Pipeline.</p> <p>Supporting documents with regard to above have been submitted vide our letter No. <b>No. PL/S&amp;E/47/2022/54 dated 04.03.2022</b></p>
Condition (xi):	The implementation of the project vis-a-vis environmental action plans will be

	monitored by Ministry's Regional office at Shillong / State Pollution Control Board / Central Pollution Control Board. A six monthly compliance status report should be submitted to monitoring agencies.
Status of Compliance:	Being Complied. Six monthly compliance report are submitted and also uploaded in the Company's web site. Supporting documents are also submitted in this regard.
Condition (xii):	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive.
Status of Compliance:	Exists. See Condition (ix) above.
Condition (xiii):	The Project Proponent should inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://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 copy of the same should be forwarded to the Regional office at Shillong.
Status of Compliance:	<b>Complied.</b>
Condition (xiv):	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.
Status of Compliance:	Financial closure done. Date of Final approval: 17.11.2003 Date of Financial closure: 09.11.2004 Date of Assetization: 27.08.2008

B. Descriptive report on other aspects of environmental management not specifically covered above:  
Not applicable.