



भारत सरकार/Govt. of India
विद्युत मंत्रालय/Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority
मुख्य विद्युत निरीक्षणालय प्रभाग/Chief Electrical Inspectorate Division

CEI/1/2/2017/1884

Dated:21.09.2017

To,

Shri B. C. Tripathi Chairman & Managing Director GAIL(INDIA) Limited GAIL Bhawan, 16 Bhikaji Cama Place, R K Puram, New Delhi – 110066 EPABX: 011-26172580 Fax: 011-26185941	Sh.Narendra Suwalka Addl.CE (T&C), Ajmer RVPNL NR. 220 KV GSS, Naka Madarnaka Madar, Ajmer, 305001 Ph:9414061422,0145-2670093 Fax: 2670074
Mr A K Tiwari Executive Director Operations Indian Oil Corporation Limited Pipelines Head Office Noida – 201301 Tel – 0120-2448521 E mail: tiwarianand@indianoil.in	Mrs Seema Gupta Executive Director NR I Powergrid Corporation of India Limited New Delhi Tel 98102 81063 E mail: sgupta@powergridindia.com
Shri Anish Anand GM-ENGG-TL, PGCIL Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) 122001, Mob:9910378101 Mail:anish@powergridindia.com	

Sub: Safety Hazards to IOCL Petroleum Pipeline caused by crossing of 400 KV Power line of PGCIL across Right of Way (ROW)

Madam/Sir,

M/s Indian Oil Corporation Limited vide letter No. WRPL/SEN/ML/9.0 dated 04.09.2017 (copy enclosed) on the above subject has indicated that the impact of high voltage transmission line, crossing their underground pipelines, causes electromagnetic interference resulting in induced voltage in their pipelines. This disturbs Cathodic Protection and initiate corrosion of the pipelines.

Since many new transmission lines have been envisaged in near future for construction, therefore, there is possibilities that some of these lines may cross the existing oil pipelines. Considering the issue raised by IOCL is of emergent in nature, a meeting has been convened by CEI,CEA on **4th October, 2017** at 11.00 AM in the **office of Chief Engineer, CEI Division, Room No. 311, 3rd Floor, NRPC Building, Katwaria Sarai, New Delhi 110 016**. You are requested to **depute officer(s) not below Superintending Engineer/ General Manager** to attend the meeting.

Yours faithfully,


21.9.17
Santosh Kumar

Dy. Director

Copy To,

Shri P.K. Sinha, GM, IOCL
Western Region Pipelines
P.O.-Sendra, Distt.-Pali,
Rajasthan-306 102
Mob: 9660019338
E-mail:pankajks@indianoil.in



इंडियन ऑयल कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम)

पश्चिम क्षेत्र पाइपलाइन्स

पोस्ट : सेन्द्रा, जिला : पाली-306 102 (राज.)

INDIAN OIL CORPORATION LTD.

(A Govt. of India Undertaking)

Western Region Pipelines

P. O. SENDRA, Distt. : PALI-306 102 (Raj.)

Phone : 02937-272231, 272240, 272235

Fax : 02937-272231



IndianOil

पाइपलाइन्स प्रभाग :
Pipelines Division :

Ref:WRPL/SEN/ML/9.0

Date: 04.09.2017

To,
General Manager
Power Grid Corporation of India Limited,
New Delhi

Sub: Serious Safety Hazard to IOCL Petroleum Pipeline caused by Unauthorized Crossing of KV EHT/HT Power line laid across IOCL Right of Way (RoW).

Dear Sir,

IOCL owns and operates over 12000 kms of Petroleum Pipelines. These are high pressure pipelines that supply Crude Oil to major refineries as well as for distribution of petroleum products to various terminals/depots.

However, our above Pipelines have been put under severe threat of failure, due to Unauthorized Overhead Crossing of EHT/HT Power line laid by your Company across IOCL Right of Way (RoW). The detailed list of crossing/(s) is attached with this letter .

Please note that the Transmission Line/(s) were laid across the IOCL Pipeline Right of Way (RoW) without taking any permission from IOCL. Such an unauthorized act resulting in Damage to Petroleum Pipeline is a criminal offence and attracts serious penalties as per section 15 of Petroleum and Mineral Pipelines (Amendment) Act, 2011, relevant portion of which is reproduced below:

"Whoever, with the intent to cause or knowing that he is likely to cause damage or destruction of any pipeline laid as per the P&MP act, causes by fire, explosive substance or otherwise damage to the pipeline being used for transportation of petroleum, crude oil or gas with the intent to commit sabotage or with the knowledge that such act is so imminently dangerous that it may in all probability cause death of any person or such bodily injury likely to cause death of any person, shall be punishable with rigorous imprisonment which shall not be less than ten years but may extend to imprisonment for life or death."

CIN-L23201MH1959GOI011388

पंजीकृत कार्यालय : इंडियन ऑयल भवन, जी-9, अली यावर जंग मार्ग, बान्द्रा (पूर्व) मुम्बई-400 051 (भारत)
Regd. Office : Indian Oil Bhawan, G-9, Ali Yavar Jung Marg, Bandra (E), Mumbai-400 051 (India)

Website : www.iocl.com

AMUL ELECTRICAL INDUSTRIES
W. No. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

12/09/17
14/9/17

sh RRP
Pls call a meeting
on above subject
Inviting PGCL,
IOCL, GAIL &
RV PNL
SR
14/9/17

14/9/17

We wish to inform that our underground Pipelines are protected from Corrosion by employing the specialized system of Cathodic Protection (CP), wherein the natural electro negativity of the pipeline metal is polarized by applying a meagre DC voltage of 300 mV.

In Contrast, the impact of High Voltage in EHT Transmission lines crossing the underground pipelines even in no-load conditions of transmission line causes electromagnetic interference (inductive coupling) with the pipelines, resulting in induced voltage in the pipelines which is much higher than the 300 mV CP Voltage, which ultimately can suppress the CP System and initiate corrosion in the pipeline in a very short period. .

Therefore, it is mandatory as per OISD-STD-141 Standard of Oil Industry Safety Directorate (OISD), Govt. of India for all transmission lines to cross pipeline RoW at right angles / near to right angles only. Besides, any induced voltage in pipeline should also be mitigated by measures such as Polarization Cells, Diode AC Couplers, etc. to maintain the effectiveness of CP System and to prevent corrosion in pipelines.

Please appreciate that crossing permission for overhead power transmission line crossing is a systematically laid down and well established practice, and IOCL has accorded crossing permissions to various power transmission line operators for correctly designed crossings and with proper interference mitigation measures.

For information, the procedure for crossing permission involves the following major steps:

1. Submission of initial application for crossing permission by Party with Proposed Crossing Plan, Layout and Drawing
2. Joint Site Survey between IOCL and Party
3. Raising of Demand Note by IOCL for Charges pertaining to Interference Surveys, Modelling, Mitigation Measures and Permission Processing Charges
4. Payment of above Charges by Party
5. Signing of Crossing Agreement
6. Issuance of Crossing Permission Letter by IOCL to Party

Since IOCL Pipelines are a vital national asset, you are therefore, strongly advised in the interest of the nation to immediately de-energize and dismantle the unauthorized transmission line crossings of IOCL pipeline RoW, apply for Crossing Permission with Corrected design and obtain permission from IOCL before proceeding any further.

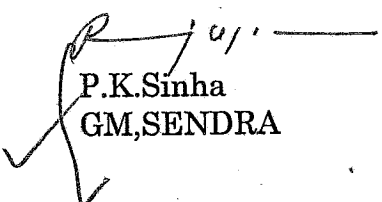
Please be informed that, the unauthorized transmission line crossing is a criminal offence as per section 15 of Petroleum and Mineral Pipelines (Amendment) Act, 2011 and accordingly, we may have to take up the matter with higher Police Authorities of concern District and will be compelled to take up the matter to the Ministry, including taking legal action, Police FIR, etc. in case you fail to take actions as advised above, on or before 20.09.2017

R. J. a)

Urging you to take immediate actions as advised above

Thanking you,

Yours Faithfully


P.K.Sinha
GM, SENDRA

Copy:

- (1) District Collector, AJMER
- (2) Commissioner of Police, JAIPUR
- (3) CEA, NEW DELHI
- (4) Director, PGCIL NEW DELHI
- (5) District Collector, BHILWARA

: For kind Information

: For kind Information

: For kind Information

: For kind Information

: for kind Information

Detailed List of HT Line Crossing/(s)

Sr.No.	CHAINAGE OF CROSSING / COLLOCATION	PIPELINES IN ROW	ROW WIDTH (M)	TRANSMISSION LINE DETAILS				Village	Taluka	District
				OPERATOR	TRANSMISSION SYSTEM	LINE TENSION (kV)	NO. OF CONDUCTORS			
1	SMPL 447.150	4	41	POWERGRID	Overhead AC	400	6	Kesarpura	Beawar Sadar	Ajmer
2	SMPL 453.500	4	41	POWERGRID	Overhead AC	400	6	Rudlai	Mangliyas	Ajmer
3	KSPL 459.150	2	18	POWERGRID	Overhead AC	400	6	Kharwa	Beawar Sadar	Ajmer
4	KSPL 461.300	2	18	POWERGRID	Overhead AC	400	6	Kharwa	Beawar Sadar	Ajmer
5	SMPL 456.300	4	41	POWERGRID	Overhead AC	400	6	Leeri	Mangliyas	Ajmer
6	SMPL 461.800	4	41	POWERGRID	Overhead AC	400	6	Leeri	Mangliyas	Ajmer
7	CBPL 80.6	1	18	POWERGRID	Overhead AC	400	12	Thabola	Mandal	Bhilwara
8	CBPL 85.1	1	18	POWERGRID	Overhead AC	400	12	Bhadu	Mandal	Bhilwara
9	CBPL 85.2	1	18	POWERGRID	Overhead AC	400	12	Bhadu	Mandal	Bhilwara

By
Sunita Kumar Meem
 OYMG, Sehra