

# Oil India Limited

A Government of India Enterprise

## DETAILS FOR PRE TENDER MEET FOR COATING WORK

Oil India Limited is presently operating 1860 Km of cross country hydrocarbon Pipeline. Oil India owns a 1157 Km long x 18 m/14 m wide Right-of-way [ROW] from Duliajan, Assam, to Barauni, Bihar.

Out of the 1860 Km Pipeline, 1415 Km of pipeline are very old. Due to natural degradation of existing coal tar coating of these pipelines over time, the CP system is unable to adequately protect the pipeline system. Moreover, addition of more pipeline in the same ROW have increased the load on the CP system.

In order to achieve the objective of continued safe and reliable operation and enhancing life of the pipeline system, Oil India Limited has taken up rehabilitation project of 575 Km of pipeline under Phase-I from Duliajan (Assam) to Barauni (Bihar)

The 575 KM Pipeline coating refurbishment work to be carried by contractors shall cover the following activities:-

- 1) Removal of existing Coal Tar Coating & Re-coating of Pipeline.
- 2) Re-coating of buried Block Valves
- 3) Repairing of Shorted Cased Crossing
- 4) Repair of Shorted Insulating Joints
- 5) Relevant Cathodic Protection work like installation of TLP, Galvanic Anode bed, cathodic protection system for casing pipe,

It is proposed to carry out the Coating refurbishment work by engaging multiple contractors with the following proposed spreads:-

Spred / Package	Station	State	Coating Length (KM)	Block Valve	Cased Crossing	Insulating Joints
1	PS-1(Duliajan) to RS-3(Kaziranga)	Assam	110	16	24	2
2	RS-3(Kaziranga) to RS-5(Jagiroad)	Assam	110	13	14	2
3	RS-5(Jagiroad) to RS-9 (Barpeta Rd)	Assam	105	22	26	2
4	RS-9(Barpeta Rd) to RS-13(Odlabari)	Assam & West Bengal	130	34	63	3
5	RS-13(Odlabari) to Barauni Pump Station	West Bengal & Bihar	120	30	21	6
<b>Total</b>			<b>575 KM</b>	<b>115</b>	<b>148</b>	<b>15</b>

The terrain of the pipeline is mostly plain and hilly in some areas. The ROW mostly passes through cultivated land, with stretches of barren land, forests, reserved forests, small villages and clusters of population. The ROW runs parallel to existing roads / highways in some sections and also passes through marshy, waterlogged area. The pipelines may be submerged / waterlogged in certain areas.

### Coating Material:-

The following Coating Material will be free issued to Contractors:-

S.No	Coating Material	S.No	Coating Material
1.0	3ply / 2ply COLD APPLIED TAPE SYSTEM	3.0	PETROLATUM / WAX TAPE COATING SYSTEM
1.1	Filler Material	3.1	Paste
1.2	Primer	3.2	Inner wrap
1.3	Inner wrap	3.3	Outer Wrap
1.4	Outer Wrap		PETROLATUM / WAX COATING SYSTEM FOR BLOCK VALVES

S.No	Coating Material	S.No	Coating Material
1.5	Hand Wrapping Machine	3.4	Paste
<b>2.0</b>	<b>VISCO ELASTIC COATING SYSTEM</b>	3.5	Mastic
2.1	Inner Wrap	3.6	Inner wrap
2.2	Outer Wrap	3.7	Outer Wrap

All other Materials required for completion of the Project shall be supplied by Contractor.

**Key Activities:-**

- Site visit for studying the ROW and existing station facilities included the battery limit of the project, understanding the existing terrain and conditions, getting familiar with the expected working conditions and a thorough understanding of the project scope of work. The Contractor shall be deemed to have acquainted himself well with the site and project requirements before submitting his offer.
- Study all the Engineering documents, including Drawings and Procedures prepared by the PMC, and understand the technical requirements of the work.
- Carry out Trenching and excavation in the designated section of the 575 km Pipeline segment (Phase-I of the project), expose the existing buried pipeline, carry out required engineering measurements including pipe thickness, removal of existing coating, surface preparation of the pipe for application of new coating, application of new coating as per procedure, back filling of the trench and restoration of the site.
- In locations where thickness of the pipe is found to be lower than acceptable levels, a sleeve shall be applied to the pipeline, as per approved procedure, for providing strength and for improving the life of the pipeline. Pipes for fabrication of Sleeve shall be provided by the Owner.
- Carry out Trenching and excavation in the designated section of the 575 km Pipeline segment (Phase-I of the project) for expose the existing buried Valves, removal of existing coating, surface preparation and application of new coating as per procedure, back filling and restoration of the site.
- Carry out rehabilitation work for all cased crossings as per the approved procedure.
- Carry out rehabilitation work for all damaged /shorted Insulation Joints / Flanges as per the approved procedures.
- The scope of cathodic protection includes performing Soil resistivity survey at repeater stations & high voltage transmission crossings  $\geq 66\text{KV}$ , supply & installation of test stations, rehabilitation of cased crossings, mitigation of AC interference at HT line locations, bonding at pipeline crossings , grounding at block valves/isolation flanges/joint locations, CAT survey at the coating rehabilitation locations.

Before floating the Tender for Pipeline Coating refurbishment work, we are organizing a pre tender meeting for detailed discussion on Scope of work, executed order value in the last 5 years, BEC requirement and other condition at our below mentioned office address on **13th April 2017 at 2-00 PM**.

Our Office Address:-

**Tractebel Engineering Pvt. Ltd.**  
Intec House, 37 Institutional Area,  
Sector 44, Gurgaon 122 002 (Haryana), India