



DNP Ltd.

(A Government of Assam Undertaking)

CIN : U51410AS2007SGC008410

**GLOBAL EXPRESSION OF INTEREST (EOI) FOR CONSULTANCY SERVICES
FOR CARRYING OUT CLEANING PIGGING AND INTELLIGENT PIGGING
SURVEY (IPS) OF PIPELINE**

DNP Limited (DNPL), Duliajan is a Govt. of Assam undertaking and a joint venture company of Assam Gas Company Limited (AGCL), Numaligarh Refinery Limited (NRL) & Oil India Limited (OIL) which transport Natural gas from Duliajan, Assam, India to Numaligarh Refinery, Golaghat, Assam, India through a 406.4 mm (16”) OD pipeline of approx 192 Km length. Duliajan town is situated in the district of Dibrugarh. Nearest Airport is at about 45 Km.

DNPL intends to run cleaning pig and conduct Intelligent Pigging Survey (IPS) of its 16”OD pipeline. The online Pigging is proposed to be conducted without disruption of service or with minimal disruption (for few Hours) using Natural Gas as propellant. The pipeline is provided with 5 Sectionalizing Valve (SV) stations and 2 Intermediate Pigging (IP) stations at regular interval.

DNPL invites Global Expression of Interest (EOI) from Individual/Firm/Company having expertise in IPS to work as Consultant for the IPS work as stated above. Contractors meeting the following requirements are eligible to apply:

In case of Firm/company,

- Company’s financial performance documents i.e. Audited Balance Sheets, Profit & Loss Account, Cash Flow Statements for the last 3 years.
- The average annual turnover of the Company during the last three years, ending 31st March of the previous financial year, should be at least Rupees 30.00 lacs. Statement of annual turnover of last three years duly certified by a practicing CA shall be submitted.

In case of Individual only annual income tax return as applicable to his/her country of origin will serve the purpose.

The bidder shall submit

- i) supporting documents of the above,

- ii) Biodata of consultant and documents supporting of field experience /consultancy experience in Intelligent Pigging,
- iii) any other document in support of pre-qualification

In brief, the scope of work of the Consultant shall include:

1. Provide inputs in preparation of Tender for hiring IPS contractor
2. Scrutiny of the Tender document for hiring IPS contractor
3. Preparation of clarifications of Bidders' queries and Physical Presence in the Pre-Bid meeting and clarification to the Bidders against queries received from bidders
4. Scrutiny of Bid documents submitted by the bidders for hiring IPS contractor and recommendation of the successful bidder
5. Verification of the report of Pull through test for calibration of corrosion detection pig
6. Providing inputs, suggestions within 24 hours during IPS work
7. Scrutiny of all reports submitted by the IPS contractor
8. Recommendation and approval of the reports submitted by the IPS contractor
9. Recommendation of digging points for verification of result
10. Interpretation of final reports submitted by the IPS contractor
11. Any other scope to include as suggested by the Consultant himself.

DNPL Pipeline Details:

DNP Ltd. (DNPL) owns a 16 inch OD pipe line of length approx. 192Km from Duliajan to Numaligarh Refinery (NRL). The natural gas (lean gas) is received at DNPL's Despatch Station/ Compressor Station from nearest OIL's Central Gas Gathering Station (CGGS) through a 20inch OD API 5L- PSL2 Gr X65 Pipeline at about 8 to 8.5 Kg/Cm². The gas is pressurized to about 45-50 Kg/Cm² by two Reciprocating Compressors and dispatched to Numaligarh Refinery through a 16 in. OD API 5L- PSL2 Gr. X-65 Pipeline. There are 02 nos IP stations and 05 nos SV station in between Receiving station at NRL and Despatch Station at Duliajan. The pipeline was installed in 2009-10 and commissioned in 2011.

The Pipeline was not pigged after commissioning and now planned to conduct cleaning pigging along with Intelligent Pigging survey. The designed Pipeline MAOP is 92 Kg/Cm² and receiving pressure by NRL is 32 Kg/Cm² through a Pressure Reduction System with a Slam shut valve.

It is planned to conduct the pigging operation online using the product as pig propellant. Pigging will be conducted in the following sections:

- A) From OIL's CGGS to DNPL's Despatch Station – approx 0.6 Km (20 inch P/L)
 B) From DNPL's Despatch Station to IP1 Station – approx 100 Km (16 in P/L)
 C) From IP1 Station to IP2 Station – approx 80 Km (16 in P/L)
 D) From IP2 station to Receiving Station at NRL – approx 12 Km (16 in P/L)

The information of the pipeline system is mentioned below:

Pipeline General Information

Sl. No.	Item	Description	Remarks
1.00	a) Name of the pipeline	Duliajan Numaligarh Pipeline	
	b) Commissioning date of pipeline	28 th Feb,2011	Installation of P/L on 2009-10
	c) Services	Transportation of Natural Gas	
	d) Design/OISD code followed	ASMEB31.8 & relevant OISD codes	
	e) Design life of pipeline and valves	40 (Forty) years	
	f) Design temperature	-20°C to 60°C for above ground sections -20°C to 45°C for buried sections	
	g) Design capacity/flow rate (section wise)	1.2 MMSCMD	
	h) Length of the Pipeline in Kms. i) Section wise in case different diameter pipe used ii) In case of N. Gas – Class location wise length	192 Kms i) 16” dia. Pipe from Despatch station to NRL (192Km) and 20” dia pipe from OIL battery limit to Despatch station, Madhuban (0.6 Km). ii) Class 1: 0 Class 2: 87.765 Class 3: 104.835	
	i) Size/sizes of pipeline alongwith length of each section.	16” Dia/ 8.7mm & 10.3mm thk API 5L-PSL2 Gr. X65	
	j) Is the pipeline designed for	Yes	

	scraper/intelligent pigging		
	k) No. of intermediate booster station	Nil	
	l) No. of Intermediate pigging station with location name and chainage	02 (two) IP1 (Mantonia, chainage 100.0 Km) IP2 (Badulipar, chainage 180.00 Km)	
	m) No. of CP cum Repeater or CP stations	8 nos	
	n) No. of location of Sectionalising valves	05 (five) – Remote operated	
	o) No. of water bodies crossings with chainages	67	
	p) No. of cased crossings Railway	04 (four)	
	q) No. of Road crossings (NH & SH) i) Cased ii) Non cased	i) 83 ii) 101	
	r) No. of suspended crossings	Nil	
	s) No. of intermediate Tap of/delivery stations	06 (Six)	
2.00	CROSS COUNTRY PIPELINE DETAILS		
2.01	Design pressure of the pipeline in Kg/cm ² Whether surge analysis carried out for the pipeline? If so, maximum surge pressure	99.96 Kg/cm ² N.A.	
2.02	Maximum Allowable pressure of the pipeline in Kg/cm ² Normal Operating pressure corresponding to design and throughput in Kg/cm ²	MAOP = 92.05 Kg/cm ² NOP = 44 to 50 Kg/cm ²	
2.03	Corrosion allowance for the pipeline, in mm	0 for Cross country pipeline 1.5 for utilities piping (air, water, etc)	
2.04	% of Mainline joints inspected by radiography	100%	
2.05	Whether the pipeline meets various separation distance requirements in the ROW as per OISD standards	Yes	
2.06	Type of Sectionalizing valves used on the pipeline	Remote operated	
2.07	Whether pigging facility has been installed and the pipeline is piggable by scraper pig	Yes	

2.08	Whether Intelligent Pigging was carried out for the pipeline	No	
2.09	Whether anti surge devices have been installed, if applicable and details thereof.	N.A.	
2.10	Whether Line patrol man deployed	Yes	
3.00	COATING AND CATHODIC PROTECTION DETAILS		
3.01	i) Type of external coating used in the pipeline (CTE/3LPE/FBE/Other) Coating thickness in mm.	a) CTE – Minimum 6.2 mm on pipe body Minimum 4.0 mm on weld seam b) 3LPE (S-N type) – 2.2 mm minimum on pipe body and 1.6 mm minimum on weld seam of pipe. c) 3LPPE – 3.5mm minimum on pipe body and 3.2mm on weld seam of pipe.	
	i) Internal coating in pipe	Nil.	
3.02	Whether the pipeline is adequately protected cathodically as per the requirements of OISD standard.	Pipeline is adequately protected by CP system.	
3.03	No. of TLP (Test Lead Points/Test stations) installed along the pipeline route	308	
4.00	LOCATION DETAILS		
4.01	Name of location and chainage LAND	Madhuban (Compressor/Despatch station), Ch. 0.0	
4.03	Details of Prime mover: a) Type of prime mover (engine/motor/gas turbine) b) Power rating c) Type of fuel for engine d) Engine safety protection system e) Specific fuel consumption	a) Engine b) B) 6312KW (3 units) c) Natural gas d) Safety shut down, safety valves etc.	

		e) 540 Sm ³ /hr per unit.	
4.04	Details of Compressor: a) Flow rate – Maximum b) Power in KW	a) 0.55 MMSCMD per unit. b) 1645 KW per unit	Total 3 nos Reciprocating Compressors (2 running and 1 standby)
4.05	Communication system details a) Telephones b) CCTV	a) Yes b) Yes	At each station
5.00	INTERMEDIATE PIGGING STATION- 1		
5.01	Location name and chainage	IP1, Mantonia, Ch. 100.00 Km	
6.00	INTERMEDIATE PIGGING STATION- 2		
6.01	Location name and chainage	IP2, Badulipar, Ch. 180.00 KM	
7.00	SECTIONALISING VALVE STATION-1		
7.01	Location name and chainage	SV1, Konwari gaon, Ch.21.0 KM	
8.00	SECTIONALISING VALVE STATION-2		
8.01	Location name and chainage	SV2, Hingarijan, Ch. 52.0 KM	
9.00	SECTIONALISING VALVE STATION-3		
9.01	Location name and chainage	SV3, Gohaingaon, Ch. 76.0 KM	
10.00	SECTIONALISING VALVE STATION-4		
10.01	Location name and chainage	SV4, Pirakata Dewan Bhroluwa (Kakojan), Ch 125.0 KM	
11.00	SECTIONALISING VALVE STATION-5		
11.01	Location name and chainage	SV5, Charingia gaon, Ch 151.0 KM	
12.00	Control & Instrumentation system	SCADA system with OFC based telecommunication network	
13.00	High Integrity Pressure Protection System (HIPPS)	Pressure regulator with Slam shut valve in pressure letdown skid at receiving station at NRL	
14.00	Fire and gas detection system	Available in electrical room/control room	

		buildings and field along with manual call point/hooters in all stations	
15.00	Product composition	Natural Gas	
16.00	Any pipeline failure/leakage till date	No	

All works will conform to applicable API codes, PNGRB Guidelines, ANSI/ASME B 31.8 (the latest edition) and relevant OISD codes.

DNPL reserves the right to (a) either accept or reject any / all EOI(s) ,(b) cancel the process without assigning any reason what so ever.

DNPL request interested bidders to submit their Expression of Interest (EOI) along with scanned copies of associated backup documents as applicable to the following email ids within 10 calendar days of publication of this EOI and submit the hard copy documents in a closed envelop superscribing **“EOI for Consultancy services for carrying out Cleaning Pigging and Intelligent Pigging Survey (IPS) of pipeline”** to:

GM (Technical)

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