

OIL INDIA LIMITED
PIPELINE HQ, GUWAHATI.

REQUEST FOR EXPRESSION OF INTEREST (REOI)

Sub.: ANNUAL MAINTENANCE OF THREE NOS. MAIN LINE PUMPS & ASSOCIATED EQUIPMENTS INSTALLED AT PS3, JORHAT AND ONE NO MAIN LINE PUMP & ASSOCIATED EQUIPMENTS INSTALLED AT PS5, NOONMATI, GUWAHATI

EOI NO.: PL/CONT/MM/EOI/F-2467/4757 DATED 04-05-2021

1.0 Preamble :

OIL INDIA LTD (OIL), a Navaratna Company under the Ministry of Petroleum and Natural Gas, a premier public sector undertaking of Govt. of India engaged in the business of exploration, production and transportation of crude oil and natural gas and production of LPG. OIL invites Expression of Interest (EOI) from reputed and established Indian Engineering firms/contractors/company meeting requisite criteria for empanelment of contractors for executing the services as per the scope of work mentioned below:

2.0 Scope of Work:

To carry out annual maintenance of Horizontal split case Pumps & Associated equipments as detailed in **Annexure-I** installed in Pump Station no.3 (Jorhat) & Pump Station no.5 (Guwahati) of OIL's Naharkatiya Barauni Crude oil Pipeline located in the state of Assam, for a period three years.

3.0 Qualification Criteria:

The service providers shall have the experience of successfully carrying out annual maintenance of horizontal split case pumps in any PSU/ Oil & Gas Company / Power sector or any reputed organization.

Interested bidder having the requisite experience as stated above are invited to submit their EOI with necessary documents supporting the pre-qualification criteria and other credentials as per **Annexure II** as well as scope of work under Annual Maintenance Contract. Interested parties are requested to submit their Expression of Interest / Proposal, including the following:

- a) Experience of working in horizontal split case BB3 pump.
- b) Experience in condition monitoring/Analysis of high speed pumps
- c) Siemen certified vendor with experience in MV & LV harmonic drive maintenance
- d) Experience of both HT motor maintenances.
- e) OEM or OEM authorized channel partner. Valid certificate to be produced by the channel partner.
- f) Experience in calibration of instruments as per Annexure-I (Instrument details)
- h) Respondents, after scrutiny of the documents submitted, would be required to make a detailed presentation at our Pipeline Headquarter in Guwahati, Assam (India), and to give a budgetary quotation to achieve the desired result.

4.0 Location of the Area: Guwahati and Jorhat where the work will be implemented.

5.0 Safety and other compliances:

The **Potential Vendors / firms /Service Providers** is expected to have established health, safety, security and environment management system and shall have to comply with the applicable and prevailing provisions of The Factories Act, OMR 2017, OISD (Oil Industry Safety Directorate) guidelines, Labour laws/ rules & Amendments, MoE&F (Ministry of Environment and Forest) directives of India and any other applicable statutory regulations as per the law of the land.

6.0 Submission of EOI:

Interested Vendors / firms /Service Providers having relevant experience and expertise are invited to submit their EOI(s) in hard copies in Sealed envelope super-scribing “Expression of Interest **PL/CONT/MM/EOI/F-2467/4757 DATED 04-05-2021** for Identifying Potential Vendors / firms /Service Providers in India for **ANNUAL MAINTENANCE OF THREE NOS. MAIN LINE PUMPS & ASSOCIATED EQUIPMENTS INSTALLED AT PS3, JORHAT AND ONE NO MAIN LINE PUMP & ASSOCIATED EQUIPMENTS INSTALLED AT PS5, NOONMATI, GUWAHATI.**

The application indicating the applicant’s name / address and telephone / mobile number with the details of information as mentioned above should reach:

GENERAL MANAGER (CONTRACTS)
Contracts Department
Oil India Limited Pipeline HQ
P.O. Udayan Vihar, Guwahati 781 171, Assam
Tel: 0361-2595601, Fax: 0361- 2643686
E-mail : ramanujd@oilindia.in

Interested party shall submit their Expression of Interest (EOI) with the requested details up to **1.00 P.M. on 30.06.2021** via courier / registered post in a sealed envelope super scribing the EOI Reference No **PL/CONT/MM/EOI/F-2467/4757 DATED 04-05-2021** & Applicant’s Name / Address on the envelope.

Sealed envelope containing Expression of Interest (EOI) may be physically dropped in the Tender Box, placed at the office of **General Manager - (Contracts) up to 1.00 P.M. on 30.06.2021 and will be opened on the same day at 2.00 P.M.** at the office of the General Manager (Contracts) in the presence of any prospective bidders. **For details please see the through OIL’s web site www.oil-india.com**

Interested Parties may also submit their EOI’s at our email ids **dwipendradas@oilindia.in** / **nekibur_rahman@oilindia.in** with a copy to **ramanujd@oilindia.in** within the time frame as mentioned above.

Potential Vendors / firms /Service Providers should provide the following Information:

- Details of Potential Vendors / firms /Service Providers Company Incorporation along with Date and Place of Incorporation.
- Number of employees in the Company.
- Contact Details

Name of concerned person	
Designation	
Telephone number	
Mobile number Fax number	
Address	
e-mail	

Note 1.:

All future corrigendum/addendum/amendments and clarification to the EOI, if any, shall be hosted on above website only and not in the newspapers. Parties are therefore advised to keep themselves updated with all such amendments.

However, **OIL will not be responsible for the delay in receipt (i.e., beyond 2.00 P.M. on 30.06.2021) of the same.**

In case, the above mentioned date happens to be a non-working day for OIL in Guwahati due to Bandh/holiday or for any other reason(s), EOI(s) shall be received up to the next full working day till 15:00 Hrs. (IST) and opened accordingly except on Saturdays..

For any further technical clarifications, you may contact:

GM (MM) PHQ, at e-mail: dwipendradas@oilindia.in or
DGM(MM) PHQ at e-mail nekibur_rahman@oilindia.in

7.0 General Notes:

- (i) All documents submitted along with the EOI should be clear & legible.
- (ii) The EOI is liable to be ignored in case of submission of any misleading / false representation by the Potential Vendors / firms /Service Providers / Company.
- (iii) OIL INDIA LIMITED reserves the right to ignore any or all EOIs and also to curtail/ enhance the scope of work stated above, if required, without assigning any reason thereof.
- (iv) This EOI is non-binding in nature and submission of information should not be considered as shortlisting / selection for company in any subsequent RFP/ Tender/ Bid process that may be undertaken in future.
- (v) OIL reserves the right to terminate the EOI process at any point of time without assigning reason.
- (vi) No participant shall contact OIL on any matter relating to the EOI after the last date of submission of EOI unless requested for so in writing. Any effort by the bidder to influence OIL in the decision making in respect of EOI will result in the rejection of that bidder.
- (vii) Based on the responses received against this invitation, a virtual meeting/ offline discussion (as per convenience of OIL) may be held with the responding Potential Vendors / firms /Service Providers / Company to discuss on the information/ views submitted. Date and time shall be intimated separately.

ANNEXURE-I**Rotating equipment Details**

<u>Sl No.</u>	<u>Pump Station</u>	<u>Location</u>	<u>Nos of Pumps</u>	<u>Pump Model (BPCL)</u>	<u>Capacity</u>	<u>Motor Make/Model</u>	<u>Motor Rating</u>	<u>Pump Serial</u>	<u>Mechanical seal</u>
1	PS3 ML	Jorhat, Assam	3	DVMX 6x 8x11E-9STG	475 m3/hr (rated flow) / 900 m (Diff. head)	Nidec ASI S.p.A. (ANSALDO) / ET 630 L2	1445 kW/ 6600 V/ 50 Hz/ 146 Amps/ 2982 rpm	003-PA-CF-103A/B/C	API PLAN 11 & 52 (FLOWSERVE)
2	PS5 BL	Noonmati, Assam	1	DVMX 6x 8x11E-4STG	330 m3/hr (rated flow) / 474 m (Diff. head)	Bharat Heavy Electricals Ltd. (BHEL) / 1MJ7636-2P	750 kW/ 6600 V/ 50 Hz/ 77 Amps/ 2979 rpm	001-PA-CF-108A/B	API PLAN 11 & 52

List of subsystem & instruments details**PS3**

	ITEM / DESCRIPTION	MAKE	MODEL NUMBER	QTY 1 PUMP	UNIT
A	PLC SYSTEM				
1	SIMATIC S7-400H, UR2-H RACK	SIMENS	6ES74002JAA00AA0	1	NO
2	SIMATIC S7-400H, POWERSUPPLY PS407: 4A, 120/230VAC	SIMENS	6ES74070DA020AA0	2	NO
3	SIMATIC S7-400H, SYNC SUBMODULE	SIMENS	6ES79601AA060XA0	4	NO
4	SIMATIC S7-400H, PATCH CABLE FO 1M FOR SYNC MOD.	SIEMENS	6ES74002JAA045AA0	2	NO
5	SIMATIC S7-400H, CPU 412-5H	SIEMENS	6ES74125HK060AB0	2	NO
6	SIMATIC S7-400, BACK-UP BATTERY 3.6 V/2.3 AH.	SIEMENS	6ES79710BA00	4	NO
7	SIMATIC S7, MEMORY CARD FOR S7-400, -EPROM. 1MBYTE	SIEMENS	6ES79521KK000AA0	2	NO
8	SIMATIC DP RAIL, FOR ET200M, FOR ABM FUNCTION 620MM	SIEMENS	6ES71951GG300XA0	2	NO
9	SIMATIC DP , IM MODULE	SIEMENS	6ES71532BA020XB0	4	NO
10	DIGITAL INPUT MODULE. 32 DI	SIEMENS	6ES73211BL000AA0	4	NO

11	DIGITAL OUTPUT MODULE. 32 DO	SIEMENS	6ES73221BL000AA0	2	NO
12	ANALOGUE INPUT MODULE.,8 AI	SIEMENS	6ES73311KF020AB0	3	NO
13	ANALOGUE INPUT MODULE., 4AO	SIEMENS	6ES73325HD010AB0	2	NO
14	ACTIVE BUS MODULS	SIEMENS	6ES71957HB000XA0	8	NO
15	SIMATIC S7-300, FRONT CONNECTOR, 20-PIN	SIEMENS	6ES73921AJ000AA0	2	NO
16	SIMATIC S7-300, FRONT CONNECTOR, 40-PIN	SIEMENS	6ES73921AM000AA0	12	NO
17	PROFIBUS CONNECTOR , WITHOUT PG SOCKET	SIEMENS	6ES79720BA420XA0	4	NO
18	PROFIBUS CONNECTOR , WITH PG SOCKET	SIEMENS	6ES79720BB420XA0	2	NO
19	PROFIBUS STANDERED CABLE	SIEMENS	6XV18300EH10	10	MTR
20	SIMATIC HMI TP 1900 COMFORT	SIEMENS	6AV21240UC020AX0	1	NO
21	ETHERNET SWITCH 8 PORT, UNMANAGED-24V DC	SIEMENS	6GK50080BA001AB2	2	NO
22	MODBUS TCP/IP GATEWAY	SIEMENS	6ES72111AE400XB0	2	NO
B	PLC SOFTWARE FOR ES				
	PLC CONFIGURATIO SOFTWARE S7300- FOR PLC 300/400	SIEMENS	6ES78104CC100YA5	1	NO
	WINCC ADVANCE V13 - ENGINEERING SOFTWARE	SIEMENS	6AV21020AA030AA5	1	NO
	WINCC ADVANCE V13 - RUNTIME SOFTWARE-512POWER TAG	SIEMENS	6AV2104DA030AA0	1	NO
C	ELECTRICAL COMPONENTS				
1	SELECTOR ROTARY CAM-2POLE -1WAY- ON- OFF SWITCH-32A	SALZER	61198	1	NO
2	FUSE BASE-201	SIEMENS	3NW20 NSF	1	NO
3	FUSE LINK-2A	SIEMENS	3NW NS 2	1	NO
4	MCB-SCHNEIDER -4A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P04C	5	NO
5	MCB-SCHNEIDER -6A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P06C	11	NO
6	MCB-SCHNEIDER -10A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P10C	1	NO
7	MCB-SCHNEIDER -16A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P16C	4	NO
8	MCB-SCHNEIDER -32A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P32C	1	NO
9	SERVICE PLUG UNIT, 1 SWITCH -1 SOCKET, 6A,230VAC	ANCHOR	20449+21011M+21113	2	NO
10	PANEL LIGHT 230V AC ,14 WATT	CROMPTON	T5I K1114	2	NO

II. VIBRATION MONITORING SYSTEM :SHINKAWA

ITEM NO : 005 - PA-CF-108

SITE : Noonmati

	ITEM/DESCRIPTION	PRODUCT CODE	QTYF FOR 1 PUMP	UNIT
A				
1	Main Pump Vib Transducer	VM-21K2	4	NO
2	Motor Vib Transducer	VM-21A2	4	NO
3	Speed Transducer	VM-21R2	1	NO
B	Accessories			
	Barriers for VL sensors	MTL 7796 AC	AR	
	Barriers for VL sensors	MTL 5544 D	AR	
	Barriers for temp. sensors	MTL 7756 AC	AR	

III. COMMON DRIVE LOGIC (CDL) :SIEMENS

ITEM NO : 003 - PA-CF-103 A/B/C

SITE : JORHAT

	ITEM / DESCRIPTION	MAKE	QTY	3 PUMP/3VFD	UNIT
A	PLC SYSTEM				
1	SIMATIC S7-400H, UR2-H RACK	SIMENS		1	NO
2	SIMATIC S7-400H, POWERSUPPLY PS407: 10A, 120/230VAC	SIMENS		2	NO
3	SIMATIC S7-400H, SYNC SUBMODULE	SIMENS		4	NO
4	SIMATIC S7-400H, PATCH CABLE FO 1M FOR SYNC MOD.	SIEMENS		2	NO
5	SIMATIC S7-400H, CPU 412-5H	SIEMENS		2	NO
6	SIMATIC S7-400, BACK-UP BATTERY 3.6 V/2.3 AH.	SIEMENS		4	NO
7	SIMATIC S7, MEMORY CARD FOR S7-400,-EPROM. 1MBYTE	SIEMENS		2	NO
8	SIMATIC DP RAIL, FOR ET200M, FOR ABM FUNCTION 620MM	SIEMENS		2	NO

9	SIMATIC DP , ET200M-RED,- BUNDLE	SIEMENS	2	NO
10	DIGITAL INPUT MODULE. 32 DI	SIEMENS	6	NO
11	DIGITAL INPUT MODULE. 32 DO	SIEMENS	2	NO
12	ANALOGUE INPUT MODULE.,8 AI	SIEMENS	4	NO
13	ANALOGUE INPUT MODULE., 4AO	SIEMENS	2	NO
14	ACTIVE BUS MODULS	SIEMENS	6	NO
15	SIMATIC S7-300, FRONT CONNECTOR, 20-PIN	SIEMENS	2	NO
16	SIMATIC S7-300, FRONT CONNECTOR, 40-PIN	SIEMENS	12	NO
17	PROFIBUS CONNECTOR , WITHOUT PG SOCKET	SIEMENS	4	NO
18	PROFIBUS CONNECTOR , WITH PG SOCKET	SIEMENS	2	NO
19	PROFIBUS STANDERED CABLE	SIEMENS	10	MTR

PS5, Noonmati

	ITEM / DESCRIPTION	MAKE	MODEL NUMBER	QTY 1 PUMP	UNIT
A	PLC SYSTEM				
1	SIMATIC S7-400H, UR2-H RACK	SIMENS	6ES74002JAA000AA0	1	NO
2	SIMATIC S7-400H, POWERSUPPLY PS407: 4A, 120/230VAC	SIMENS	6ES74070DA020AA0	2	NO
3	SIMATIC S7-400H, SYNC SUBMODULE	SIMENS	6ES79601AA060XA0	4	NO
4	SIMATIC S7-400H, PATCH CABLE FO 1M FOR SYNC MOD.	SIEMENS	6ES74002JAA045AA0	2	NO
5	SIMATIC S7-400H, CPU 412-5H	SIEMENS	6ES74125HK060AB0	2	NO
6	SIMATIC S7-400, BACK-UP BATTERY 3.6 V/2.3 AH.	SIEMENS	6ES79710BA00	4	NO
7	SIMATIC S7, MEMORY CARD FOR S7-400,-EPROM. 1MBYTE	SIEMENS	6ES79521KK000AA0	2	NO
8	SIMATIC DP RAIL, FOR ET200M, FOR ABM FUNCTION 620MM	SIEMENS	6ES71951GG300XA0	2	NO
9	SIMATIC DP , IM MODULE	SIEMENS	6ES71532BA020XB0	4	NO
10	DIGITAL INPUT MODULE. 32 DI	SIEMENS	6ES73211BL000AA0	4	NO
11	DIGITAL OUTPUT MODULE. 32 DO	SIEMENS	6ES73221BL000AA0	2	NO
12	ANALOGUE INPUT MODULE.,8 AI	SIEMENS	6ES73311KF020AB0	3	NO
13	ANALOGUE INPUT MODULE., 4AO	SIEMENS	6ES73325HD010AB0	2	NO
14	ACTIVE BUS MODULS	SIEMENS	6ES71957HB000XA0	8	NO

15	SIMATIC S7-300, FRONT CONNECTOR, 20-PIN	SIEMENS	6ES73921AJ000AA0	2	NO
16	SIMATIC S7-300, FRONT CONNECTOR, 40-PIN	SIEMENS	6ES73921AM000AA0	12	NO
17	PROFIBUS CONNECTOR , WITHOUT PG SOCKET	SIEMENS	6ES79720BA420XA0	4	NO
18	PROFIBUS CONNECTOR , WITH PG SOCKET	SIEMENS	6ES79720BB420XA0	2	NO
19	PROFIBUS STANDERED CABLE	SIEMENS	6XV18300EH10	10	MTR
20	SIMATIC HMI TP 1900 COMFORT	SIEMENS	6AV21240UC020AX0	1	NO
21	ETHERNET SWITCH 8 PORT, UNMANAGED-24V DC	SIEMENS	6GK50080BA001AB2	2	NO
22	MODBUS TCP/IP GATEWAY	SIEMENS	6ES72111AE400XB0	2	NO
B	PLC SOFTWARE FOR ES				
	PLC CONFIGURATIO SOFTWARE S7300- FOR PLC 300/400	SIEMENS	6ES78104CC100YA5	1	NO
	WINCC ADVANCE V13 - ENGINEERING SOFTWARE	SIEMENS	6AV21020AA030AA5	1	NO
	WINCC ADVANCE V13 - RUNTIME SOFTWARE-512POWER TAG	SIEMENS	6AV2104DA030AA0	1	NO
C	ELECTRICAL COMPONENTS				
1	SELECTOR ROTARY CAM-2POLE -1WAY- ON- OFF SWITCH-32A	SALZER	61198	1	NO
2	FUSE BASE-201	SIEMENS	3NW20 NSF	1	NO
3	FUSE LINK-2A	SIEMENS	3NW NS 2	1	NO
4	MCB-SCHNEIDER -4A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P04C	5	NO
5	MCB-SCHNEIDER -6A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P06C	11	NO
6	MCB-SCHNEIDER -10A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P10C	1	NO
7	MCB-SCHNEIDER -16A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P16C	4	NO
8	MCB-SCHNEIDER -32A-MCB-2P- C- CURVE	SCHNEIDER	A9N2P32C	1	NO
9	SERVICE PLUG UNIT, 1 SWITCH -1 SOCKET, 6A,230VAC	ANCHOR	20449+21011M+21113	2	NO
10	PANEL LIGHT 230V AC ,14 WATT	CROMPTON	T5I K1114	2	NO

II. VIBRATION MONITORING SYSTEM :SHINKAWA

ITEM NO : 005 - PA-CF-108

SITE : Noonmati

	ITEM/DESCRIPTION	PRODUCT CODE	QTYF FOR 1 PUMP	UNIT
A				
1	Main Pump Vib Transducer	VM-21K2	4	NO
2	Motor Vib Transducer	VM-21A2	4	NO
3	Speed Transducer	VM-21R2	1	NO
B	Accessories			
	Barriers for VL sensors	MTL 7796 AC	AR	
	Barriers for VL sensors	MTL 5544 D	AR	
	Barriers for temp. sensors	MTL 7756 AC	AR	

INTRUMENTATION details**PS3, JORHAT**

S.N.	ITEM	TAG. NO	RANGE	SERVICE	SUB VENDOR	SET POINT
1	TEMP TRANSMITTER	003-TT-1840A/B/C	0-200°C	L.O. HDR TEMP	HONEYWELL	NA
2	TEMP. TRANSMITTER	003-TT-1840A/B/C	0-200°C	L.O. TEMP (FAN 2 START)	HONEYWELL	79°C
3	LEVEL GAUGE	003-TT-1840A/B/C	470MM	L.O. RESERVIOR	PUNE TECHTROL	NA
4	LEVEL GAUGE	003-TT-1840A/B/C	470MM	FLUSHING TANK DE LEVEL	PRATOLINA	NA
5	LEVEL GAUGE	003-TT-1840A/B/C	470MM	FLUSHING TANK NDE LEVEL		NA
6	Level TRANSMISTTER	003-TT-1840A/B/C	L=450MM	L.O. RESERVOOR	MAGNETROL	NA
7	DIFF. PRS. TRANSMITTER	003-TT-1840A/B/C	0.1-2.0 Kg/cm2	ACROSS LO FILTER	HONEYWELL	1.0Kg/cm2g
8	PRESSURE TRANSMITTER	003-TT-1840A/B/C	0.4-24Kg/cm2	L.O. HDR(ALM)	HONEYWELL	1.8Kg/cm2g

9	PRESSURE TRANSMITTER	003-TT-1840A/B/C	0.4-24Kg/cm2	L.O. HDR(AUX LOP.START)	HONEYWELL	1.8Kg/cm2g
10	PRESSURE TRANSMITTER	003-TT-1840A/B/C	0.4-24Kg/cm2	L.O. HDR(MAIN MOTOR TRIP)	HONEYWELL	1.5Kg/cm2g
11	TEMPERATURE GAUGE	003-TT-1840A/B/C	0-150°C	L.O. SUPPLY.HDR	PYROELECTRIC	NA
12	PRESSURE GAUGE	003-TT-1840A/B/C	0-10Kg/cm2	MOP. DISCH (JB)	GIC	NA
13	PRESSURE GAUGE	003-TT-1840A/B/C	0-10Kg/cm2	AUX. LOP DISCH. (JB)	GIC	NA
14	PRESSURE GAUGE	003-TT-1840A/B/C	0-10Kg/cm2	L.O. HDR(GB)	GIC	NA
15	PRESSURE GAUGE	003-TT-1840A/B/C	0-80Kg/cm2	PUMP BALANCING LINE	GIC	NA
16	TEMPERATURE GAUGE	003-TT-1840A/B/C	0-150°C	L.O.RESERVIOR	PYROELECTRIC	NA
17	TEMPERATURE GAUGE	003-TT-1840A/B/C	0-150°C	PUMP THRUST BRG.	GIC	NA
18	TEMPERATURE GAUGE	003-TT-1840A/B/C	0-150°C	PUMP NDE BRG.	GIC	NA
19	TEMPERATURE GAUGE	003-TT-1840A/B/C	0-150°C	PUMP DE BRG.	GIC	NA
20	TEMPERATURE GAUGE	003-TT-1840A/B/C	0-150°C	MOTOR DE BRG. TEMP.	GIC	NA
21	TEMPERATURE GAUGE	003-TT-1840A/B/C	0-150°C	MOTOR NDE BRG. TEMP.	GIC	NA
22	PRESSURE TRANSMITTER	003-TT-1840A/B/C	0.4-24Kg/cm2	LUBE OIL HDR	HONEYWELL	*
23	TEMP. ELEMENT T/C	003-TT-1840A/B/C	0-80°C	LUBE OIL HDR	TEMPSENS	*
24	TEMP. ELEMENT T/C	003-TT-1840A/B/C	0-80°C	LUBE OIL HDR(FAN 2 START)	TEMPSENS	*
25	SAPCV	003-TT-1840A/B/C	1.7-5.2barg	L.O PRS. RELIEF. VALVE	NIRMAL	5barg
26	PRS. RELIEF VALVE	003-PSV-1840A/B/C	6 BAR	MOP. PRS. RELIEF VALVE		6.0BAR-G
		003-PSV-1841-A/B/C		AOP. PRS. RELIEF VALVE		6.0BAR-G
27	DIFF PRS. GAUGE	003-PSV-1840A/B/C 003-PSV-1841-A/B/C	0-2Kg/cm2	ACROSS L.O. FILTER	GIC	NA
28	LEVEL TRANSMITTER	003-LT-2271 A/B/C 003-LT-2272 A/B/C	0-770MM 0-770MM	FLUSHING TANK DE PRESSURE FLUSHING TANK NED PRESSURE	EMERSON	70 +/- 2MM 70 +/- 2MM
29	TOV			BEFORE RADIATOR	AMOT CONTROL	NA
30	PRS. TRANSMITTER	003-PT-2271 A/B/C 003-PT-2272A/B/C	0-4 KG Kg/cm2	FLUSHING TANK DE PRESSURE FLUSHING TANK NED PRESSURE	YOKOGAWA	
31	PRESSURE GAUGE	003-PI-2271 A/B/C 003-PI-2272 A/B/C	(-)1-3 kG/cm2	FLUSHING TANK DE PRESSURE FLUSHING TANK NED PRESSURE	GIC	NA
32	TEMP ELEMENT(RTD)	003-TE-2288 A/B/C	0-80°C	PUMP AXAIL. TH. BRG SIDE TOP	GIC	A-89°C, T- 93°C

33	TEMP ELEMENT(RTD)	003-TE-2289 A/B/C	0-80°C	PUMP AXAIL. TH. BRG SIDE BOTT	GIC	A-89°C, T- 93°C
34	TEMP ELEMENT(RTD)	003-TE-2272 A/B/C	0-80°C	PUMP AXAIL. TH. BRG TOP	GIC	A-89°C, T- 93°C
35	TEMP ELEMENT(RTD)	003-TE-2273 A/B/C	0-80°C	PUMP AXAIL.TH. BRG BOTTOM	GIC	A-89°C, T- 93°C
36	TEMP ELEMENT(RTD)	003-TE-2274 A/B/C	0-80°C	PUMP NDE BRG TEMP. TOP	GIC	A-89°C, T- 93°C
37	TEMP ELEMENT(RTD)	003-TE-2275 A/B/C	0-80°C	PUMP NDE BRG TEMP. BOTTOM	GIC	A-89°C, T- 93°C
38	TEMP ELEMENT(RTD)	003-TE-2276 A/B/C	0-80°C	PUMP DE BRG. TOP	GIC	A-89°C, T- 93°C
39	TEMP ELEMENT(RTD)	003-TE-2277A/B/C	0-80°C	PUMP DE BRG. BOTTOM	GIC	A-89°C, T- 93°C
40	VIBRATION ELEMENT	003-VE-2275 A/B/C	VIB. PROBE	PUMP DE BRG. VIB.	SHINKAWA	A-70 MIC; T-80 MIC
41	VIBRATION ELEMENT	003-VE-2276 A/B/C	VIB. PROBE	PUMP DE. BRG. VIB.	SHINKAWA	
42	VIBRATION ELEMENT	003-VE-2273 A/B/C	VIB. PROBE	PUMP NDE BRG. VIB.	SHINKAWA	
43	VIBRATION ELEMENT	003-VE-2274 A/B/C	VIB. PROBE	PUMP NDE BRG. VIB.	SHINKAWA	
44	VIBRATION ELEMENT	003-YX-2271 A/B/C	VIB. PROBE	KEYPHASER	SHINKAWA	*
45	VIBRATION ELEMENT	003-VE-2279 A/B/C	VIB. PROBE	MOTOR NDE VIB	SHINKAWA	*
46	VIBRATION ELEMENT	003-VE-2280 A/B/C	VIB. PROBE	MOTOR NDE VIB	SHINKAWA	*
47	VIBRATION ELEMENT	003-VE-2277A/B/C	VIB. PROBE	MOTOR NDE VIB	SHINKAWA	*
48	VIBRATION ELEMENT	003-VE-2278 A/B/C	VIB. PROBE	MOTOR NDE VIB	SHINKAWA	*
49	MOTOR TEMP (RTD)	003-TE-2278 A/B/C	0-80°C	MOTOR DE BRG TEMP	RELATIVE PROBE ASSEMBLY CATALOG NO 21000-28-05- 25-020-03-02 MOD# PO400141072/50	A-95°C; T-105°C
50	MOTOR TEMP (RTD)	003-TE-2285 A/B/C	0-80°C	MOTOR NDE BRG TEMP		A-95°C; T-105°C
51	MOTOR TEMP (RTD)	003-TE-2279A/B/C	0-80°C	MOTOR WDG1 RTD		A-95°C; T-105°C
52	MOTOR TEMP (RTD)	003-TE-2280 A/B/C	0-80°C	MOTOR WDG1 RTD		A-95°C; T-105°C
53	MOTOR TEMP (RTD)	003-TE-2281 A/B/C	0-80°C	MOTOR WDG1 RTD		A-95°C; T-105°C
54	MOTOR TEMP (RTD)	003-TE-2282 A/B/C	0-80°C	MOTOR WDG1 RTD		A-95°C; T-105°C
55	MOTOR TEMP (RTD)	003-TE-2283 A/B/C	0-80°C	MOTOR WDG1 RTD		A-95°C; T-105°C
56	MOTOR TEMP (RTD)	003-TE-2284 A/B/C	0-80°C	MOTOR WDG1 RTD		A-95°C; T-105°C

PS5, Noonmati

SLNO	TYPE	MAKE	MODEL	DETAILS
1	TE	General	2XPT100, DSR11280	
2	TE	General	2XPT100, DSR11280	
3	TE	General	2XPT100, DSR11280	
4	TE	General	2XPT100, DSR11280	
5	TE	General	2XPT100, DSR11280	
6	TE	General	2XPT100, DSR11280	
7	PI	General	IFDBHP-000-23	Range(' -1-3 KG/CM ²)
8	PT	Yokogawa	EJA530E	Range(0-4 KG/CM ²)
9	LT	Rosemount	M1Q4Q8, 5301 HA1H1N4AM00077CK11	
10	LG	Pratolina		Range(0-470 mm)
11	PI	General	IFDBHP-000-23	Range(' -1-3 KG/CM ²)
12	PT	Yokogawa	EJA530E	Range(0-4 KG/CM ²)
13	LT	Rosemount	M1Q4Q8, 5301 HA1H1N4AM00077CK11	
14	LG	Pratolina		Range(0-470 mm)
15	Vibration & Keyphasor Proximeter	SHINKAWA	VK-202A2/EX5	For Measurement of Speed
16	Vibration & Keyphasor Proximeter	SHINKAWA	VK-202A2/EX6	Pump Side Vibration Probe
17	Vibration & Keyphasor Proximeter	SHINKAWA	VK-202A2/EX7	Pump Side Vibration Probe
18	Vibration & Keyphasor Proximeter	SHINKAWA	VK-202A2/EX8	Pump Side Vibration Probe
19	Vibration & Keyphasor Proximeter	SHINKAWA	VK-202A2/EX9	Pump Side Vibration Probe
20	Accelerometer Sensor	SHINKAWA	CA302-001-EX5-10-Int-N	Motor Side Vibration Probe
21	Accelerometer Sensor	SHINKAWA	CA302-001-EX5-10-Int-N	Motor Side Vibration Probe
22	Accelerometer Sensor	SHINKAWA	CA302-001-EX5-10-Int-N	Motor Side Vibration Probe
23	Accelerometer Sensor	SHINKAWA	CA302-001-EX5-10-Int-N	Motor Side Vibration Probe

VFD DETAILS

SL. No.	Pump Station	VFD Make	Nos of VFDs	INPUT POWER	Drive output	COOLING
1	PS3 ML	SIEMENS (HV)	3	3 PHASE 6.6KV 156A 50HZ	3 PHASE, 0-6.6 KV,0-50Hz,1445KW	FORCED AIR
2	PS5 ML	SIEMENS (HV)	1	3 PHASE 6.6KV 78A 50HZ	3 PHASE, 0-6.6 KV,0-50Hz,750KW	FORCED AIR

Detail Experiences of the Bidder

The Bidder shall give information on work done during the past 5 (five) years ending _____ as per the format given below

Sl. No.	Brief Description of work	Details of Pump & Motor	Details of Variable Frequency drive	Details of PLC	Period of contract (Date)	Name & Postal Address of Client

Signature & Seal of the Bidder: _____

Name of Bidder: _____

Details of Present Commitment

The Bidder shall give information regarding present commitment as per the format given below

Sl. No.	Name & Postal Address of Client & Name of Officer-In -Charge	Description of work	Value of Contract	Date of Completion	% age of Completion as per Date	Expected Date of Completion

Signature & Seal of the Bidder: _____

Name of Bidder : _____