Our Ref. No.: 19/KP/00731(R2)

(To be quoted for all correspondence)

Date:

14-05-2019

Page:

01/02

To:

M/s.

Fax No.:

Attention:

SUBJECT:

QUOTATION FOR "MAIN CIRCULATION PUMP"

We intend to purchase goods as detailed and specified bellow Kindly send us your best offer in accordance with the following General Conditions as stated below:-.

General Conditions

(a) <u>Submission of</u> Quotation Quotation may be sent immediately through Fax or E-mail but Original Pro-forma Invoice along with detailed technical brochures / literature must reach us by mail before the last date mentioned below:

(b) <u>Last Date of</u> Quotation

10-06-2019

(c) Validity

At least 90 days

(d) Price Basis

Firm and fixed C & F Prices

(e) Payment Mode

- We accept payment through L/C with condition that all domestic bank charges will be borne by us while all bank charges in beneficiary's country including all L/C conformation (if desired by the supplier) charges will be borne by the beneficiary.
- We accept Pre-payment only against unconditional & irrevocable Bank Guarantee through First Class bank.

Sr. No	Description	
01	Main Circulation Pump (Detail specification attached at page 02)	01
02	VFD Controller	01
03	Spares	05 years

Rf, 19/10/100731(R2)

Detailed Technical Specifications

Roge	The
loc)	2

Sr.	Sr. No. Description			Qty.	
	1.	Main Circulation Pump for TMO test loop			01
	1.	Stages Stages	01		
	}			ed motor pump (Centrifugal)	
		Type Location/Orientation		r/ Horizontal	
			R-134	V	
		Working Fluid		n ³ /hr. (0 - 0.3 kg/s)	
		Flow Rate			
		Design Pressure		a (50 bar)	1
		Design Temperature	150°		
		Operating Pressure Range		o 4 MPa (15 to 40 bar)	
		Operating Temperature	20 - 9	90 °C	
		Range			
		Discharge Pressure (Max.)	Upto	4 MPa (40 bar)	
		Differential Pressure	0.4 1		
		Differential Fleduct	Moto	r Data	
		Motor Type:	VFL	Controlled (Compatible with Pump Model)	
		Phase / Voltage / Frequency	3 Ph	1/400V/50 Hz	1
		Motor type/Connection	3 ph	ase/DOL	-
		Type of Starting		ect Online	-
		Permissible Phase Unbalance	e < 5°	24	
		in Supply Voltage			-
	Degree of Protection IP-65				-
		Mat		f Construction	-
		Casing		-316	-
		Impeller		-316	-
1 -		Pump Shaft		-316 (May be of Duplex Steel)	-
		Sleeves		-316	-
		Motor Body		-304	-
		All wetted parts	88	-304/higher grades	01
	02.	VFD Controller		Required	
	 O3. Counter Flanges & Base Plate O4. Terms and conditions – documentation required 			tation required	
	04	itation required	a provided &		
	i. To be designed and manufactured according API-685			vi. Standard QA certificate should be QCP Pump and motor data sheet	be provided &
		ificate of Origin.		vii. Instrumentation details.	
	iii 310	Certificate of hydrostatic pressure te	est and	viii Electrical test (type and routine	procedure)
1	pum	p material tests for pressure retaining	ng parts	by Dynamic balance test procedure	and report
٠, ١	and	main components.		x. Hydraulic performance test 3.1	B according to
-	iv. Pun	p characteristic curves.		ISO 9906 class 2B	
	v. Gen	eral arrangement drawings.		Certificates of inspection & perfor	mance testing,
1				noise level monitoring along-with	inspection of
	05.	Inspection	*	OCD 1ants as per above quote	ed standards by
	•	*		third party, Pre-shipment and	with at ven
				05 Years (included)	7
	06	. Spares	-	Harmetic Pumpen GmhH. Teikoku	Elec. Mfg Co.
				Itd Nikkiso Non-Seal Pumps, Op	timex, Hayward
	07	Make		Tyler Hermag Pumps, Gruppe Kut	schi etc.
	"			European/ American/Japanese / C	hinase.
	05.	. Spares		noise level monitoring along-with QCP documents as per above quote third party, Pre-Awpment Indiana of Years (included) Hermetic-Pumpen GmbH, Teikoku Ltd., Nikkiso Non-Seal Pumps, Opport Tyler, Hermag Pumps, Gruppe Rut European/ American/Japanese / Company Comp	Elec. timex,