REQ241-2015/E

Supply new complete heavy duty horizontal centrifugal pump, end suction, single stage, driven by electrical motor via flexible coupling mounting on common steel base plate, according technical specification as below.

Quantity	Two					
Serves	RO product water pumps					
Pump item		A/B	- 1 - 1			
Liquid handled	RO) wat	ter			
Capacity	20	$0 \text{ m}^{3/2}$	hr.			
Head		70 m				
NPSH available		5 m				
Discharge pressure	7 bar					
Suction	min 0.2	-	norm 0.5 max 0.7			
pressure(bar)						
Specific gravity		1.2				
General	Pumps choosing accord	ing to	API 610 last ed			
specification for				,OH2		
pumps	Materi			xstainlesssteel		
	Pumps ty		overhu	ung		
	Number of sta	-	single st			
	Locuti		outdoor			
	Pumps Lubricati					
	Ambient temperature range-2 °Cto55°C					
	The shaft for all pumps should be protected from the wear by					
	installing the shaft sleeve at the shaft seal device					
	Pump should be furnished with cartridge mechanical seal					
	,single API 682, plan 11					
	Pumps should be furnished with flexible (non – sparking) coupling spacer type.					
	The oil seal should be Labyrinth oil seals made from non					
	sparking metal					
Driver	3ph induction motor squirrel cage, TEFC (totally enclosed fan					
specifications	cooled)cast-iron frame and copper winding, weather proof					
	Drive sta	Drive standard		C		
	Μοι	Mounting		horizontal /foot (B3)		
	Volt / Phases			3ph / 50		
		Enclosure		IP 55		
	Ambient temperature			55 °C		
	Duty service			S 1		
	Insulation class		F			
	Lubrication		Grease			
	Temperature Rise			· /		
	Motor starting Star / delta		delta			

	Spare parts	S	Spare parts for (pump and electrical flowing items should s			-
Ite 1. 2. 3.		Item	Description		Unit	2
		1.	Impeller		NOS	2
		2.	Shaft with keys		NOS	3
		3.	Thrust Bearing		NOS	3
	4.		Radial Bearing Set of wear ring (impeller wear ring & case wear ring) if used		NOS	2
		5.			SET	3
		6.	Bearing LocknutBearing Lock washerShaft Sleeve (Mechanical Seal)Complete cartridge Mechanical SealKit spare for Mechanical sealComplete Coupling		NOS	10
		7.			NOS	10
		8.			NOS	4
		9.			NOS	4
		10.			Kit	2
		11.			NOS	2
		12.	Labyrinth for DE		NOS	6
		13.	Labyrinth for NDE		NOS	6
		14.	SET OF Gaskets & 'O' Rings if used		SET	2
		15.	Set of Bearing for electrical motor		SET	2
	-			1	ENDER LI	STS
no	Equipment's		Manufacturer	Origin		
A 1.	Centrifugal pump	08	EBARA PUMPS	Japan		
1.			matsui.kiyoshi@ebara.com	Japa	11	
2.					Europe/ Uk	ζ/
			sales@cpcpumps.com	U.S.	A /Canada	
2			hfayed@cpcpumps.com	T		
3.			DMW CORPORATION Suzuki2500@dmw.co.jp	Japa	n	
			mailto:thanks@dmw.co.jp			
			<u>q-info@dmw.co.jp</u>			
4.			SHIN NIPPON	Japan		
-			pump@snm.shi.co.jp			
5.			Flowserve pumps esg@flowserve.com	west Europe/UK /U.S.A		
В	Sub venders			/0.5	.A	
a	motors			-		
			Schorch	_		
1.			Baldor Electric			
2.			WEG	1		
3.			ABB	1		
4.			Helmke	1		
5.			toshiba	- west Europe/ UK / U.S.A /Canada /Japan		
6.			Brook			
7.			FUJI	1 0.0.		upun
8.			Schorch	1		
	+			-		
b	mechanical seal					
b 1.	mechanical seal		ASESEAL	-		

3.			Flowserve					
4.			EGAL – BURGMANN					
5.			TREM Engineering					
С	Co	oupling						
1.			john crane					
2.			FLENDER Standard Couplings					
3.			Rexnord (Thomas Flexible Disc Couplings)					
4.			KTR					
Notes The supplier should take the following points in consideration								
1.	,mo	l certificates, data sheet and manuals (installation -operation –maintenance) for pump otor and all accessories in English language in four copies and also tow copies of it in ompact disc) have to providing and spare parts list should be received with the equipment						
2.		ertificate of origin is certified by embassy of the Republic of IRAQ in country of origin ould be provided with shipment.						
3.	The	ne offer should be include the flowing parts						
	a.	general outline dimensional drawing						
	b.	Parts Listings and Cross-Sectional Drawings for (pump, mechanical seal & electrical motor)						
	c.							
	d.	data sheet ,construction& performance cure for pump and motor						
	e.	inspection test schedule &quality control test						