CLARIFICATION NO.1

Tender No.PROC/LE/PT/RMD-18294/21

Description: Supply & installation of esp package along with rental gensets & maintenance services

S. No	Description	Questions	OGDCL. Response
1	**3.1.10 INSPECTION AND TESTING (Factory Acceptance Test (FAT)**	Please advise whether OEM standard FAT procedure is acceptable?	Yes. Please ref. point # IV. The FAT shall be conducted in accordance with the Bidder's standard QA procedures.
2	**3.1 Engineering** 3.1.2 Permanent application engineer in Pakistan, to be fully dedicated for ESP operations, troubleshooting and engineering.	Kindly advise whether the Application engineer can support remotely, as having a dedicated resource full-time may not be feasible considering the volume of the project.	It is necessary that the application engineer is in Pakistan to handle the routine troubleshooting and monitoring of the ESPs. Moreover, in an event of emergency, backup ESP would be run by the application engineer, which will be maintained at vendor facility by application engineer.
3	**3.1.10 INSPECTION AND TESTING (Factory Acceptance Test (FAT)**	Kindly advise whether FAT can be considered only for the ESP DH components?	FAT to be considered only for the ESP DH components
4	**3.3 Operations** **3.3.2 -** Installation and servicing of ESP auxiliary downhole and surface equipment, including (but not limited to), downhole multi-sensor and related surface equipment, packer and tubing hanger cable penetrators.	Please advise whether the Packer supplier will provide personnel to install the packer and issue the related warranty, since Packers are not included in the scope of this tender.	OGDCL didn't run Packer in its pilot ESP well so our understanding was that it won't be required in other wells considering similarity in parameters. Howerver, if a packer is mandatory in certain bidder's design, it must be provided, installed by the vendor and warranty to be issued as mentioned in the referred clause.
5	**3.5.2 ESP Equipment Specifications (For Five (05) Wells)** 1- 2 x powered cable spoolers (one Prime and one backup) · 15T capacity 2- 2 x meter counters	Please advise whether these 2 items will purchased by the company as part of the surface equipment or will they remain Contractor property?	OGDCL will purchase only two (in total) of these with maximum capacity, keeping in view the depths of these wells. Howerver at the time of operation, supplying these spoolers will be bidder's responsibility.
6	**3.3.7 The Bidder must have a complete ESP service facility and competent team available in Pakistan all the time to do all ESP activities (Installation, Pulling, troubleshooting and inspection)**	Please note that Bidder has a full-fledged ESP Manufacturing and Service facility in Jebel Ali - Dubai, UAE and this caters to the service and maintenance requirements of all countries in Middle East, North Africa and Asia. Hence, it is not feasible to set-up a dedicated ESP service facility in Pakistan considering the volume of wells. Therefore, Bidder kindly requests Company to allow us use the facility in Dubai, UAE for carrying out DIFA and other complex maintenence activities.	Basic service facility is necessary, DIFA and other complex maintenance activities may be performed in main facility abroad. Bidder to submit complete list of the services that can be performed in the basic facility.
7	**3.6 Equipment Delivery & Stock** Well # 01 8 Weeks after issuance of PO Well # 02 12 Weeks after issuance of PO Well # 03 16 Weeks after issuance of PO Well # 04 19 Weeks after issuance of PO Well # 05 22 Weeks after issuance of PO	Time-line for the lead time is very tight, considering the current challenges plus that the system includes Wellheads, which typically have a long lead-time. Bidder requests to have the 1st well delivery in 30 weeks after issuance of PO.	Timeline is a reflection of OGDCL's production targets so can't be relaxed.

8	**3.5.2 ESP Equipment Specification** Chemical line ±6500 Ft "1/4" SS"	Please confirm that the required length is per well	Refer to Completion diagrams
9	**3.7.2** In case ESP could not meet the design rates, bidder will replace that ESP free of cost with a new one which will be designed as per clause 4.1	Kindly confirm this will only be applicable if the desired rate is not met because of a manufacturing and / or installation issue. Bidder will not be responsible for wellbore or fluid related chanllenges that will make the ESP unable to produce the desired rate.	Liquid rate range must optimally be maintained consider GOR and Sand production limits. If liquid rate can't be maintained due to GOR & Sand production behavior change, it will be attributed as reservoir behaviour change and vendor will be absolved of this responsibility
10	**3.7.15** OGDCL will carry out a pre-shipment third-party inspection (TPI) of ESPs	Please advise whether OGDCL can arrange TPI to inspect the item before shipment in a country other than manufacturing location, if New inventory is readily available in a this country. This can help us reduce the delivery lead time.	TPI can be performedbefore shipment in a country other than manufacturing location
11	**3. Electrical Submersible Pumps (ESPs)** **3.1 Engineering** 3.1.1 Design the ESP system to best match the requisite parameters. Completion diagrams are given in Annexure "A".	The design data provided is insufficient. Please provide the complete well data for all the wells in order to select the appropriate ESP equipment and do sizing.	Most of the data has been part of the TORs, rest is attached.

Wells	Units	Pasakhi-2	Pasakhi North-3	Sono-4	Sono-7	Lashari Center-5
Qo	STBD	985	835	455	210	225
Qw	STBD	105	40	1065	1105	955
GOR	scf/STB	192	45	Immeasurable	36	225
WHFT	deg F	122	110	85	110	115
BHFT	deg F	223	225	253	254	230
BHSIP	psi	1105	1159	1590	1638	1203
PI	STBD/psi	5.3	2.0	3.8	1.3	6.7
Salinity	ppm	-	-	53250	60350	56760
CO2	%	2.376	2.376	-	4.204	2.77
H2S	ppm	-	-	8	8	9
API	deg	43	43	43.6	43.6	41.2
SG water	frac.	1.06	1.06	1.06	1.06	1.02
SG gas	frac.	0.82	0.82	0.8	0.8	0.84
Bubble point pressure	psi	1512	1512	1227	1227	1730
Static pressure	psi	1105	1159	1590	1638	1203
Depth of well to top of perforation	m	1971	2014.5	2175	2186	1926
Datum depth	mKB	~2075	~2075	~2242	~2243	~1970
Total Well depth – Directional survey required to get the TVD & MD	m	2018	2040	2222.7	2275	2126
Casing size	in	7	7	7	7	7
Production Tubing size	in	3.5	3.5	3.5	3.5	3.5