(To be completed, filled in, signed and stamped by the principal)

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ANNEXURE 'A'

FLUID END PARTS FOR MUD PUMPS MODEL FB-1600, 12P-160 & 3NB-1300C

Material Tender Enquiry No

PROC-FA/CB/RMD/PUMP-5015/2021

Due Date

Evaluation Criteria FULL

Evalua	ion Criteria FULL	SCHE	DULE OF F	REOUIREN	IENT			
Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
1	FLUID END MODULE (STUDDED) P# 0-6316-0357-00 ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	18					
2	GUIDE, LOWER VALVE WITH BUSHING, P# 0-6316-0354-00 ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	6					
3	BOLT LOCK/LOCK NUT, LOWER VALVE GUIDE. P# 0-6316-0360-00 ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	6					
4	RING ALLIGNMENT. P# 0-6316-0363-00 ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	6					
5	SCREW, RETAINER UPPER (VALVE GUIDE). P# 0-7501-0051-00, ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	26					
6	PLATE, WEAR. P# 0-6316-0365-00. ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	15					
7	LINER ASSEMBLY, SIZE 7", [P# 05499700HP ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	36					
8	LINER ASSEMBLY, SIZE 6-1/2", P# 05499650HP, ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	50					
9	PISTON ASSEMBLY, SIZE 7", P# 012180619, (FOR USE WITH OIL BASE MUD) ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	18					
10	PISTON ASSEMBLY, SIZE 7", P#012180618, (FOR USE WITH WATER BASE MUD) ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	18					
11	PISTON ASSEMBLY, SIZE 6-1/2", JP# 012180536 (FOR USE WITH OIL BASE MUD) JASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	50					
12	PISTON ASSEMBLY, SIZE 6-1/2", P# 012180535, (FOR USE WITH WATER BASE MUD) ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	50					
13	RUBBER, PISTON, SIZE 7", P#15180343, (FOR USE WITH OIL BASE MUD), ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	18					
14	RUBBER, PISTON, SIZE 6–1/2", P#15180301, (FOR USE WITH OIL BASE MUD), IASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	36					
15	VALVE, WHITE LIGHTING INSERT, P#06155042,(FOR USE WITH OIL BASE MUD), ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	100					
16	VALVE, URETHANE INSERT, 19# 060155041, (FOR USE WITH WATER BASE MUD), ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	100					
17	SEAT, VALVE. [P# 061101507, [ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	140					
18	SPRING, VALVE, STAINLESS STEEL. P# 055413421, 055403257 ASY SLUSH PUMP, "EMSCO" 'FB-1600'. (OR EQUIVALENT)	Number	40					
19	DAMPENER, PULSATION "EMSCO" MODEL 'PD-55'. P# 6922-0021- 00, ASY PULSATION DAMPENERS "EMSCO" MODEL 'PD-55'. (OR EQUIVALENT)	Number	6					
20	BLADDER, ALONG WITH GASKET AND BOTTOM PLUG, P# 6922- 0003-00, (FOR OIL BASE MUD APPLICATION) ASY PULSATION DAMPENERS "EMSCO" MODEL 'PD-55'. (OR EQUIVALENT)	Number	15					
21	VALVE, SHEAR RELIEF, TYPE-B, EMSCO 3", 105-387 KG/CM2. P#	Number	Perg	e 1				

(To be completed, filled in, signed and stamped by the principal)

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ANNEXURE 'A'

Material FLUID END PARTS FOR MUD PUMPS MODEL FB-1600, 12P-160 & 3NB-1300C

Tender Enquiry No PROC-FA/CB/RMD/PUMP-5015/2021

FULL

Due Date

- 15

Evaluation Criteria

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	6923-0016-09, ASY VALVE, SHEAR RELIEF "EMSCO". (OR		
	EQUIVALENT)		
22	SHEAR PIN, SHEAR RELIEF VALVE, EMSCO 3", 105-387 KG/CM2. ASY VALVE, SHEAR RELIEF "EMSCO". (OR EQUIVALENT)	Number	30
23	GAUGE, PRESSURE "MARSH" J-3080. P# 7602-1150-85, 7602-1153- 03 ASY PULSATION DAMPENERS "EMSCO" MODEL 'PD-55'. (OR EQUIVALENT)	Number	4
24	MODULE, DISCHARGE, STUDDED. P# 1292240, ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	4
25	MODULE, SUCTION, STUDDED. P# 1292243 ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	6
26	INSERT/ BUSHING, VALVE GUIDE. P# 1292141, ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	6
27	HOLDER/ RETAINER, VALVE GUIDE INSERT/BUSHING. P# 1292140, ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	6
28	RETAINER, VALVE & SEAL P# 1292174, ASY SLUSH PUMP, "NATIONAL" TYPE '12–P–160'. (OR EQUIVALENT)	Number	6
29	WEDGE COMPLETE, PLUG LOCKING. P# G-1292268, ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	6
30	SPRING, WEDGE. P# 1292181, ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	6
31	CAP, VALVE COVER (THREADED), P#1292172, ASY SLUSH PUMP, "NATIONAL" TYPE '12–P–160'. (OR EQUIVALENT)	Number	3
32	SEAL/ PACKING, DISCHARGE CONNECTOR & DISCHARGE ADAPTER, [P#2410031-437, [ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	12
33	PLATE, WEAR. [P# 1292266, JASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	6
34	PISTON ASSEMBLY, SIZE 7". P# 012180619, (FOR USE WITH OIL BASE MUD) ASSY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	18
35	PISTON ASSEMBLY, SIZE 7". P#K-1077 (FOR USE WITH WATER BASE MUD) ASSY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	18
36	PISTON ASSEMBLY, SIZE 6-1/2". P# 12180536, (FOR USE WITH OIL BASE MUD) ASSY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	18
37	PISTON ASSEMBLY, SIZE 6-1/2", P# K-1067 (FOR USE WITH WATER BASE MUD) ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	18
38	CUP ASSEMBLY, PISTON, SIZE 6–1/2", P#15180301 (FOR USE WITH OIL BASE MUD) ASY SLUSH PUMP, "NATIONAL" TYPE '12–P–160'. (OR EQUIVALENT)	Number	18
39	CUP ASSEMBLY, PISTON SIZE 6–1/2", P# K–1107, (FOR USE WITH WATER BASE MUD) ASY SLUSH PUMP, "NATIONAL" TYPE '12–P– 160'. (OR EQUIVALENT)	Number	18
40	VALVE, WHITE LIGHTING INSERT, P#06155042, (FOR USE WITH OIL BASE MUD), [ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR EQUIVALENT)	Number	30
41	VALVE COMPLETE, IP# 1560985, (FOR USE WITH WATER BASE MUD) ASY SLUSH PUMP, "NATIONAL" TYPE '12-P-160'. (OR	Number	³⁰ Page 2

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(To be completed, filled in, signed and stamped by the principal)

ANNEXURE 'A'

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Mater	rial	FLUID END PARTS FOR MUD PUMPS MODEL FB-1600,	12P-160 & 3NB-	1300C	
Tender Enquiry No Due Date Evaluation Criteria		PROC-FA/CB/RMD/PUMP-5015/2021			
		FULL			
Evalu	ation Criteria	FOLL			
	EQUIVALENT)			
42	'12-P-160'. (O	/E. [P# 1560702 [ASY SLUSH PUMP, "NATIONAL" TYPE R EQUIVALENT)	Number	50	
43	ROD, PISTON. P-160'. (OR EC	P# 1292147 ASY SLUSH PUMP, "NATIONAL" TYPE '12– QUIVALENT)	Number	3	
44		PLETE, PISTON ROD. P# 1292085, ASY SLUSH PUMP, TYPE '12-P-160'. (OR EQUIVALENT)	Number	6	
45	Y1,3111330-07	ULSATION "HYDRIL" TYPE K-20-5000 LBS. P# 50500- '011 ASY PULSATION DAMPENERS "HYDRIL" TYPE K- OR EQUIVALENT)	Number	1	
46	BASE MUD) A	IP# 1005208-01,1005208-07,35504 M, (FOR USE WITH OIL SY PULSATION DAMPENERS "HYDRIL" TYPE K-20- EQUIVALENT)	Number	5	
47	VALVE, SHEA	R RELIEF, TYPE-B, EMSCO 3" , 105–387 KG/CM2. P# ASY VALVE, SHEAR RELIEF "EMSCO". (OR	Number	2	
48	SHEAR PIN, S	HEAR RELIEF VALVE, EMSCO 3", 105–387 KG/CM2. ASY R RELIEF "EMSCO". (OR EQUIVALENT)	Number	20	
49		RIL WITH SEAL NUT. P# 1900168-5, ASY PULSATION "HYDRIL" TYPE K-20-5000 LBS. (OR EQUIVALENT)	Number	2	
50		ODULE (STUDDED). P# 107.11.110.14.2. ASY SLUSH OW" '3NB-1300C'. (OR EQUIVALENT)	Number	6	
51		D (LOWER VALVE GUIDE WITH BUSHING). [P# 107–11– ' SLUSH PUMP, "LS–NOW" '3NB–1300C'. (OR ')	Number	3	
52		(RETAINER, LOWER VALVE GUIDE). P# 107.11.110.65-1 'UMP, "LS-NOW" '3NB-1300C'. (OR EQUIVALENT)	Number	3	
53	CAGE/ PLUG, "LS-NOW" '3	CYLINDER HEAD P# 107.11.330.00 ASY SLUSH PUMP, NB-1300C'. (OR EQUIVALENT)	Number	6	
54	NOW" '3NB-	IBLY, SIZE 7", P#05-466-700, ASY SLUSH PUMP, "LS- I 300C'. (OR EQUIVALENT)	Number	12	
55	LINER ASSEM	IBLY, SIZE 6-1/2", P#05-466-650, ASY SLUSH PUMP, NB-1300C'. (OR EQUIVALENT)	Number	24	
56		IBLY, SIZE 5–1/2", [P#05–466–550, [ASY SLUSH PUMP, NB–1300C'. (OR EQUIVALENT)	Number	12	
57	PISTON ASSE SLUSH PUMP	MBLY, SIZE 7", (FOR USE WITH OIL BASE MUD), [ASY , "LS-NOW" '3NB-1300C'. (OR EQUIVALENT)	Number	12	
58	PISTON ASSE	MBLY, SIZE 7", P#012180618 (FOR USE WITH WATER ASY SLUSH PUMP, "LS–NOW" '3NB–1300C'. (OR	Number	12	
59	PISTON ASSE MUD), ASY S EQUIVALENT	MBLY, SIZE 6–1/2", P#12180536 (FOR USE WITH OIL BASE LUSH PUMP, "LS–NOW" '3NB–1300C'. (OR ')	Number	24	
60		MBLY, SIZE 6-1/2", P#12180535 (FOR USE WITH WATER ASY SLUSH PUMP, "LS-NOW" '3NB-1300C'. (OR ')	Number	24	
61	PISTON ASSE	MBLY, SIZE 5-1/2", P#12180338 (FOR USE WITH OIL BASE LUSH PUMP, "LS-NOW" '3NB-1300C'. (OR	Number	12	
62	PISTON ASSE	MBLY, SIZE 5-1/2", P#12180337 (FOR USE WITH WATER	Number	Page 3	

(To be completed, filled in, signed and stamped by the principal)

ANNEXURE 'A'

Material		FLUID END PARTS FOR MUD PUMPS MODEL FB-1600,	ANNEAURE					
Tender Enquiry No Due Date		PROC-FA/CB/RMD/PUMP-5015/2021						
Evalu	ation Criteria	FULL						
	BASE MUD), A EQUIVALENT)	ASY SLUSH PUMP, "LS-NOW" '3NB-1300C'. (OR			*			
63		ON , SIZE 7", P#15180343, (FOR USE WITH OIL BASE USH PUMP, "LS–NOW" '3NB–1300C'. (OR	Number	12				
64		ON , SIZE 7", P#15180342, (FOR USE WITH WATER BASE USH PUMP, "LS–NOW" '3NB–1300C'. (OR	Number	12				
65		ON , SIZE 6-1/2", P#15180301, (FOR USE WITH OIL BASE .USH PUMP, "LS-NOW" '3NB-1300C'. (OR	Number	12				
66		ON , SIZE 6–1/2", P#15180300, (FOR USE WITH WATER ASY SLUSH PUMP, "LS–NOW" '3NB–1300C'. (OR	Number	12				
67		ON , SIZE 5–1/2", P#15180228, (FOR USE WITH OIL BASE .USH PUMP, "LS–NOW" '3NB–1300C'. (OR	Number	12				
68	RUBBER, PIST	ON , SIZE 5–1/2", P#15180227, (FOR USE WITH WATER ASY SLUSH PUMP, "LS–NOW" '3NB–1300C'. (OR	Number	12				
69	VALVE, WITH	WHITE LIGHTING INSERT, P#060155042, (FOR USE SE MUD), ASY SLUSH PUMP, "LS-NOW" '3NB-1300C'.	Number	20				
70	VALVE, COMP	LETE. P# 107-11-140-00, (FOR USE WITH WATER BASE USH PUMP, "LS-NOW" '3NB-1300C'. (OR EQUIVALENT)	Number	20				
71		P# 20-150-123 ASY SLUSH PUMP, "LS-NOW" '3NB-	Number	4				
72	PULSATION D	AMPENER, P#107.130.00-2, [ASY SLUSH PUMP, "LS- 300C". (OR EQUIVALENT)	Number	2				
73	DIAPHRAGM,	PULSATION DAMPENER, (FOR USE WITH OIL BASE .USH PUMP, "LS-NOW" '3NB-1300C'. (OR	Number	10				
74	DIAPHRAGM,	PULSATION DAMPENER, P# 107.130.01.01.1. (FOR USE BASE MUD) ASY SLUSH PUMP, "LS-NOW" '3NB-	Number	10				
75	VALVE, SHEA 6923–0016–00, EQUIVALENT	R RELIEF "EMSCO" 3", TYPE-B, 105-387 KG/CM2. P# ASY VALVE, SHEAR RELIEF "EMSCO". (OR)	Number	2				
76	SHEAR PIN, SI EQUIVALENT	HEAR RELIEF "EMSCO" 3" 105-387 KG/CM2. (OR	Number	20				
77		T, LINERS ASY SLUSH PUMP, "LS-NOW" '3NB-1300C'.	Number	15				

Note:

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SCHEDULE OF REQUIREMENT

- 1. Bid Bond Amount: US \$ 34,000/= (United States Dollar Thirty Four Thousand Only) or equivalent Pak Rupees validity up to 180 Days from the date of technical bid opening
- <u>2. Mode of Bidding</u>: Single stage two Envelope basis.
 <u>3. Evaluation Criteria</u>: Full Consignment wise C&F By Sea Karachi
 <u>4. Delivery Period</u>: 120 days from establishment of LC
 <u>5. Bid Validity</u>: 150 Days

- 6. Bidders are advised to carefully read all the terms and conditions of the Tender Document available on OGDCL website which is an integral part of this Schedule of Requirement

Procurement of Fluid End Parts for Mud Pumps Model FB-1600, 3NB-1300C & 12P-160

Terms and Conditions for Bidders

- 1. Bids from manufacturers or their authorized dealers/ distributors will be accepted only.
- If bidder is authorized dealer/ distributor of a manufacturer, copy of authority letter from quoted manufacturer in favor of the bidder must be provided with the technical proposal. OGDCL reserves the right to verify authenticity of the provided document from the manufacturer.
- For manufacturers other than OEM of the mud pumps (M/s NOV), the manufacturer shall have mud pump parts manufacturing experience for last twenty five (25) years and following documents are required to be submitted with technical proposal.
 - 3.1 Business License issued in favor of manufacturer by the chamber of commerce or any other regulatory authority of the manufacturer's country. The Business license (or any other legal certificate) shall reflect date of business establishment, company name and company business brief in English language.
 - 3.2 Manufacturer's company profile.
 - 3.3 Copies of minimum ten (10) sale contracts/ purchase orders and supporting invoices for supplying similar types of items to international drilling contractors or drilling companies other than and outside the manufacturer's own country during the last seven (07) years. Each purchase order/ supporting invoice shall be
 - i. For supplying minimum ten (10) types of fluid end parts.
 - ii. Showing complete description and quantity of the supplied parts.
 - Showing total value not less than US Dollar twenty five thousand (USD 25, 000.00).
 Only total value of the purchase orders/ sale contracts/ invoices is required. Detailed break up of prices (e.g. unit costs and extended costs) are not required.
 - 3.4 Satisfactory performance certificates/statements from five (05) respective end users stating that the items manufactured by manufacturer (name to be mentioned) and supplied against above contracts/ purchase orders (contract number to be mentioned) have been utilized and their performance found satisfactory.
 - 3.5 The sale contracts & certificate (mentioned above) shall bear valid addresses (postal/ e-mail) and phone/ fax numbers of the end users. OGDCL reserves the right to re-confirm the authenticity of provided contracts/ purchase orders / invoices and certificates from end users.
- 4. "Certificate of Origin and Compliance" to be provided along with shipping documents.
- 5. The required parts shall be capable to withstand 5000 PSI working pressure & 80°C working temperature.
- 6. The dimensions of required liners & pistons shall be in inches, equivalent size in millimeter will not be accepted i.e. 180 millimeters (7.087 inches) will not be accepted as 7" liner/ piston. Similarly, offered wear plates for each model mud pumps shall be compatible with the offered liners & modules.

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- Pistons, Rubber Pistons, Valve Inserts, Bladders for Pulsations dampeners and other Seals/ Gaskets are required for both Oil Base Mud (OBM) & Water Base Mud (WBM) application and the same is clearly mentioned in OGDCL Schedule of Requirement (SOR).
- Bidder to provide along with the proposal/ bid, adequate and relevant OEM/ manufacturer technical literature for technical evaluation purpose. The provided technical documents shall have enough information about offered material (e.g. material type, material grade, working temperature, working pressure, dimensions etc.)
- 9. All mentioned part numbers in Schedule of Requirement (SOR) are taken from part manuals received with mud pumps and OGDCL previous procurement record, however, if these part numbers do not meet required specifications mentioned at serial number 5, 6 & 7, manufacture may quote correct part numbers.
- 10. In case, a bidder offers the required items with superseded/ replaced part numbers, these should be clearly mentioned in the technical bid and a certificate be provided to confirm that offered items with new part numbers are 100% compatible in design, dimensions and function/performance to the items mentioned in the Schedule of Requirement.
- Bidder to provide a certificate with technical proposal that, in case of misfit of any or all supplied items in the relevant mud pumps (EMSCO FB-1600, LS-National 3NB-1300C & National 12P-160), manufacturer will have to replace such item(s) immediately through air lift without any additional cost to OGDCL.
- 12. Bidder to provide a certificate that offered parts will be supplied new, unused and free from all manufacturing defects.
- 13. Bidder to mention in financial bid complete description, quantity, unit price (FOB), unit price (CPT Karachi) & extended price against each item. Quoting price simply for lot is not acceptable. OGDCL may increase or decrease quantity as per its own requirement at the time of placing order.
- 14. OGDCL may carry out pre-shipment third party inspection (TPI) of the consignment at the manufacturer's premises/ warehouse through OGDCL designated inspection agency at OGDCL's own cost. Scope of work for pre-shipment TPI of the consignment is attached as "Annexure-1".
- 15. It will be the supplier's responsibility to intimate at least two weeks in advance the dates and venue of pre-shipment inspection when the material is ready for such inspection. The supplier will extend full cooperation to the inspector(s) in this regard.
- 16. Supplier shall provide to inspector the original "Certificate of Origin and Compliance" for examination and onward submission to OGDCL.
- 17. Third party inspector(s) will submit the final flash report within two day of completion of the inspection and OGDCL will intimate acceptance or rejection of the consignment/ item(s) to the supplier accordingly.
- 18. Shipment to be made by the supplier only after material acceptance by OGDCL in light of the third party inspector's report.

Proc. of Fluid End Parts for Mud Pumps - Terms and Conditions for Bidders - Page 2 of 3

- 19. After completion of the third party pre-shipment inspection and subsequent acceptance by OGDCL, the material should be boxed and packed in a compact manner to ensure safe handling and transportation during shipment. Third party inspector will also witness the packing and make it part of the inspection release note.
- 20. Documents Required with Technical Proposal:

In addition to other mandatory documents required by OGDCL in this tender enquiry, manufacturers (bidders) to provide following documents and information with technical proposal:

- 20.1 Business License as per Sr. No. 3.1
- 20.2 Manufacturer's company profile as per Sr. No. 3.2
- 20.3 Copies of sale contracts/ purchase orders/ supporting invoices as per Sr. No. 3.3
- 20.4 Satisfactory performance certificates as per Sr. No. 3.4
- 20.5 Manufacturer's technical literature as per Sr. No. 8
- 20.6 Manufacturer's certificate(s) as per Sr. No. 10, 11 & 12.
- 21. Bidder to submit all documents in English language and all type of correspondence related to this tender shall also be in English language.
- 22. Delivery period: 120 days from the date of establishment of Letter of Credit.

Note:

Above terms and conditions are integral part of OGDCL Tender Enquiry. A copy of these terms and conditions duly signed and stamped by the bidder must be provided along with the bid in token of acceptance.