



OIL AND GAS DEVELOPMENT COMPANY LIMITED
NASHPA OIL & GAS FIELD

SCHEDULE OF REQUIREMENT

TENDER ENQUIRY # TE/NOF/M/11/2021

Procurement of Oil for Refrigeration Compressors of Nashpa LPG Plant

S#	Description	Reference #	Unit Rate (price per litre)	Total rate (inclusive of all Taxes)	Deviation
1	As per attached list				

Sr no	Description	Qty
1	Poly-alkylene Glycol (PAG) based, Lubrizol CPI-1516-15 Lube Oil or equivalent brand of oil with Technical Specs, Physical and Chemical Properties as per attached Data Sheet Attached. (208.9 Liter per drum)	02 drums

SPECIFICATIONS

TERMS AND CONDITIONS:

1. Oil to be provided as per Datasheet provided with Tender document.
2. The offered oil must be compatible with Screw type refrigeration compressors with propane refrigerant and must have authorization from OEMs of such compressors.
3. The material is to be delivered at Nashpa Oil Field. The delivery charges to Nashpa Oil Field to be borne by the supplier/ bidder.
4. The oil must be supplied in standard OEM packing. In case the standard packaging / size of drum is different than the specified size of drum (208.9 ltrs. Per drum), then the quantity near equivalent to the required quantity will be accepted. However the evaluation / comparison of bids shall be done on the basis of unit rate (i.e. Rs. Per litre).
5. OGDCL reserves the rights to cancel the tender at any stage before placement of firm Purchase Order.
6. The material must be supplied within 02 months from the date of issuance of Purchase order.
7. Certificate of Origin to be provided.
8. The supplier must provide specification sheet and material safety data sheet with its bid.
9. Any required technical clarification/detail regarding material to be supplied must be cleared before submission of bid. No change in submitted bid will be entertained after bid submission date.
10. Material will be accepted after final inspection at site, and payment will be made through Cross cheque.
11. The firm should have valid NTN and GST number and have active status on FBR website. Documents to be attached with tender document.
12. The Firm should have active Professional tax certificate of concerned Excise office where operating business and same to be submitted along with the bid.
13. Tax submission Certificate (Annex-C, submitted status) are to be provided along with Invoice.

REQUIRED SPECIFICATIONS OF THE LUBE OIL:

Test Procedure	ASTM Test Method	Specifications of CPI 1516-150 Oil	OGDCL's required Specification Range	Bidder's offered specifications
Lube Oil Name			CPI 1516-150 or Equivalent	Vendor to advise
ISO VG	n/a	150	150	
Density, g/mL (@20.0°C)	D4052	0.999	0.999 to 1.05	
Water Content, ppm	D6304	163	less than 1000 ppm	
Total Acid Number, mgKOH/g	D974	0.06	Small variance may be accepted	
Flash and Fire Point,	D92			
Flash Point °C		260	230 to 275	
Kinematic Viscosity, (cSt)	D445			
at 40°C		150.4	148 to 154	
at 100°C		23.5	23 to 29	
Viscosity Index	D2270	196	195 and above	
Pour Point, °C	D97	-34	-34 to -45	
Foaming Tendency, mL	D892			
Sequence I		0/0	Pass	
Sequence II		0/0	Pass	
Sequence III		0/0	Pass	
Bidder may provide other detailed specifications of quoted brand i.e. copper strip corrosion, molecular weight, vapour pressure and density at different temperature levels so as to ensure equivalency with CPI 1516-150 for which reference values are given as under:				
Noack Volatility	D972			
% Loss		5.1		
Copper Strip Corrosion	D130			
100 °C for 3 hours		1B		
Rust Test	D665			
A - Distilled Water		Pass		
Molecular Weight		1770		
Vapor Pressure, mm Hg				
100°F		2 x 10 ⁻⁸		
150°F		2 x 10 ⁻⁷		
200°F		7 x 10 ⁻⁷		
Density, lb/gal				
60°F		8.3		
100°F		8.1		
150°F		7.9		
200°F		7.7		
Coefficient of Thermal Expansion, 1/°F		0.00057		
Specific Heat, BTU/lb°F				

100°F		0.47		
150°F		0.49		
200°F		0.51		
Thermal Conductivity, BTU/hr ft2 (°F/ft)				
100°F		0.096		
150°F		0.094		
200°F		0.091		

Note: The properties / specification range of the required brand of oil are mentioned in the above table.
The properties of the offered brand of oil to be provided by the bidder in the above given table.