Bid Number: GEM/2020/B/701851
Dated: 08-07-2020

Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 10:00:00
Bid Opening Date/Time	20-07-2020 10:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	Indian Air Force
Office Name	**********
Total Quantity	420
Item Category	Anti Wear Hydraulic Oil
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No

ePBG Detail

Required	No

Splitting

Bid splitting not applied.

Anti Wear Hydraulic Oil (420 liter)

Technical Specifications

* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Grade	**Grade of Anti Wire Hydraulic Oil**	VG-68	VG-32, VG-46, VG-68, VG-100, VG-150, TH-46, 100
REQUIREMENTS FOR ANTI WIRE HYDRAULIC OIL	**Kinematic viscosity at 40°C, cSt**	(61.2-74.8) for VG 68 grade	(28.8-35.2) for VG 32 grade, (41.4-50.6) for VG 46 grade, (61.2-74.8) for VG 68 grade, 90-110 for VG 100 grade, (135-165) for VG 150 grade, (43-48) for TH-46 grade, (101-109) for 100 grade
	Viscosity index, Min	90 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
	Pour point,°C, Max	0 (for VG 68, VG 100, VG 150 grade)	*
	Flash point(COC),°C, Min	210 (for VG 68, VG 100 grade)	*
	Neutralization number, mg KOH/g of oil, Max	To be reported (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
	Rust preventing characteristics	Shall pass the test B after 24 h	*
	Copper strip corrosion for 3 hours at 100°C	Not worse than 1	*
	Foam stability after 10 minutes setting time, foam; At 24°C,ml,Max	Nil	*
	Foam stability after 10 minutes setting time, foam; At 93°C,ml,Max	Nil	*
	Foam stability after 10 minutes setting time, foam; At 24°C after cooling down from 93°C, ml Max	Nil	*
	Emulsion characteristics, Max	40-37-3 (30) for VG 68 grade	*
	Air release value,	15 for VG 68 grade	*

minutes to 0 point 2 percent volume air content at 50°C, Max		
Oxidation test for 1000 hours: Neutralization number of oil, mg KOH/g, Max	2 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Oxidation test for 1000 hours: Total sludge in oil and water layer plus those adhering to the catalyst coils or test tube mg,Max	100 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Oxidation test for 1000 hours: Metal in combined oil, water and sludge Copper, mg, Max	50 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Oxidation test for 1000 hours: Metal in combined oil, water and sludge: Iron, mg, Max	50 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Hydrolvtic stability : Copper specimen mass loss, mg/cm	0.5 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Hydrolytic stability : Acidity of water layer, mg KOH,Max	6 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Four ball wear test at 20 kg load;Wear scar diameter, mm,Max	0.35 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Pump wear test (Vickers 104C, 250 hours test);Total mass loss to rings and vanes; mg,Max	50 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
FZG-Niemann EP test, pass load stage, Min	10th (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Thermal stability test at 135°C for 168 hours: Viscosity increase, percent, Max	5 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Thermal stability test at 135°C for 168 hours: Sludge mg/100 ml, Max	25 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
Thermal stability test at 135°C for 168 hours: Copper rod mass, loss, mg/200 m, Max	10 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*

	Thermal stability test at 135°C for 168 hours: Copper rod rating, Max	2 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
	Filtration time seconds: Without water,Max	600 (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
	Filtration time seconds: With 2 percent water, Max	Twice the time without water (for VG 32, VG 46, VG 68, VG 100, VG 150 grade)	*
	Seal compatibility test: Volume change,percent, Max	±4	*
	Seal compatibility test: Change in shore hardness, Max	(1 to +4)	*
Packing , Marking and Labelling	The material shall be packed in metal containers or in any other suitable containers as agreed to between the purchaser and the supplier	MS Barrels	*
	Packing size (Liters)	210	*
Certification	Conformity to specification	IS : 11656 (Latest)	*
	Whether ISI Marked	NO	*
	CM/L Number(Must declare if ISI Marked)	-	*
	RDSO Approval	NA	*
	RDSO approval certificate to be submitted to the buyer on demand	NA	*
Test Report Details	Availability of Test Report from Central Govt/ State Govt/NABL/ILAC accredited lab (hint: Must be declared)	YES	*
	Test Report to be furnished to the Buyer on demand (Must be declared, write NA if Test Report is not available)	YES	*

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	**********	**********KAMRUP	420	30

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods

This Bid is also governed by the General Terms and Conditions

---Thank You---