

Bid Document

Bid Details	
Bid End Date/Time	23-07-2020 20:00:00
Bid Opening Date/Time	23-07-2020 20:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence Production
Organisation Name	Indian Ordnance Factories
Office Name	*****
Total Quantity	2000
Item Category	Transformer Oil
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
----------	----

ePBG Detail

Required	No
----------	----

Splitting

Bid splitting not applied.

Transformer Oil (2000 liter)

Technical Specifications

* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Test Report Details	The Vendor are also required to furnish the following :- i) Details of instrument / appliances available with the manufacture for testing of transformer oil ii) Flow diagram clearly indicating facilities available with manufacture for manufacturing of transformer oil along with capacity iii) (Self attested / Digitally signed) & Notary certified copy (ies) of test report certificate from CPRI or Govt test house or National Test house or ERDA as per relevant IS iv) (Self attested / Digitally signed) & Notary certified copy of valid BIS marking license/BIS schedule / BIS endorsement showing coverage of this item and indicating validity	Yes	*
	Availability of Test Report from Central Govt/ State Govt/NABL/ILAC accredited lab(hint: Must be declared	Yes	*
	The vendor as to Provide involve and test report from the manufacture, if required by the Buyer or no minated	Yes	*
Certification	Conforming to IS : 335 (Latest)	Yes	*
	Whether IS Marked	Yes	*
	BIS Licence Number, if ISI Marked,else write NA	-	*
Characteristics of	Appearance	"The oil shall be clear	*

transformer oil

	transparent & free from suspended matter or sediments "	
Density Max (gm/cm ² at 29 point 50°C)	0.89	*
Kinematic viscosity (Cst) at 27°C,Max	27	*
Interfacial tension at 27°C Newtons/M,Min	0.04	*
Flash point Pansky/marten(Closed), Min(°C)	140	*
Pour point,Max(°C)	(-)6	*
Neutralization value, Total acidity mg, Max,mg KOH/gm	0.03	*
Neutralization value, Inorganic acidity / Alkalinity	Nil	*
Corrosive Sulphur (In terms of classification of copper strips)	Non-corrosive	*
Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV)	30	*
Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)	60	*
Dielectric Dissipation vector (Ten delta) at 90°C ,Max	0.002	*
Specific resistance (Resistivity) at 90°C, Min,(in Ohm-cm)	35x10 ¹²	*
Specific resistance (Resistivity) at 27°C, Min,(in Ohm-cm)	1500x10 ¹²	*
Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm	0.4	*
Oxidation stability : Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight	0.1	*

	Presence of oxidation inhibitor	The oil shall not contain antioxidant additives	*
	Water content (PPM), Max	50	*
	Ageing characteristics after accelerated ageing (open breaker method with copper catalyst : Specific resistance (Resistivity) at 27°C, Min, Ohm-cm	2.5×10^{12}	*
	Ageing characteristics after accelerated ageing (open breaker method with copper catalyst : Specific resistance (Resistivity) at 90°C, Min , Ohm-cm	0.2×10^{12}	*
	"Ageing characteristics after accelerated ageing (open breaker method with copper catalyst : Dielectric Dissipation vector (Tan delta at 90°C, Max "	0.2	*
	"Ageing characteristics after accelerated ageing (open breaker method with copper catalyst : Total acidity, Max ", mg KOH/gm	0.05	*
	"Ageing characteristics after accelerated ageing (open breaker method with copper catalyst : Total sludge value, Max "% by weight	0.05	*
Packing , Marking and Labelling	The Transformer oil is required to be supplied in brand new steel barrel ISI marked and with suitable coating from inside and outside as per clause 6-1 of IS 335 : 1993 with latest amendment, if any	Yes	*
	"Oil may also be delivered in a suitable type of high density polyethylene (HDPE) barrel subject to agreement between	Yes	*

	the purchaser and the manufacturer "		
	Oil may also be delivered in road or rail tank wagons specially cleaned and reserved for this purpose and shall be suitably sealed so as to avoid ingress of moisture	Yes	*
	Marking should be as per IS 335 :1993	Yes	*
	The container may also be marked with the ISI Certification Mark	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	*****	*****MEDAK	2000	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---