

Bid Document

Bid Details	
Bid End Date/Time	14-07-2020 14:00:00
Bid Opening Date/Time	14-07-2020 14:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Petroleum And Natural Gas
Department Name	Na
Organisation Name	Hindustan Petroleum Corporation Ltd
Office Name	Petroleum House
Total Quantity	1
Item Category	Distribution Transformer, 3 Phase, 11 KV, > 200 KVA Up to and including 2500 KVA
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

Advisory Bank	ICICI
EMD Percentage(%)	2.00
EMD Amount	57040

ePBG Detail

Advisory Bank	ICICI
ePBG Percentage(%)	10.00
Duration of ePBG required (Months).	26

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:

Chief Manager-CPO

Petroleum House, NA, Hindustan Petroleum Corporation Ltd, Ministry of Petroleum and Natural Gas
(Hindustan Petroleum Corporation Limited)

Splitting

Bid splitting not applied.

Distribution Transformer, 3 Phase, 11 KV, > 200 KVA Up To And Including 2500 KVA (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
STANDARDS	Conformity of the specification	Conformity of the specification	*
	ISI Marked	Yes	*
	BIS License Number - Must declare	-	*
	Energy efficiency level	2	2
	BEE Star Rating	4	4
	Installation, Testing and Demonstration	No	No
	Minimum warranty on receipt of stores (in Months)	30	30
	Minimum warranty from the date of installation (in Months)	24	24
RATINGS	Nominal system voltage, HV (in kV)	11	11

		Nominal system voltage, LV (in V)	415	415
		Standard ratings (in kVA)	1000	1000
		Rated frequency	50 Hz +/-5%	*
		Minimum basic insulation level (in kVP)	75	75
		No load voltage ratios (in Volts)	11000/433-250	11000/433-250
		Highest system voltage for equipment (in kV)	12	12
		Rated lightning impulse withstand voltage (in kV Peak) (Refer IS:1180 (Part 1):2014 Annex-D)	75	75
CONSTRUCTION		Core mateial	CRGO (as per IS:3024 latest)	CRGO (as per IS:3024 latest)
		Conductor (Winding) material	Copper	Copper
		Insulating paper	Kraft Paper (as per IS:9335 latest)	*
		Vector Group	Dyn-11	*
		Type of Mounting	Ground Mounted	Ground Mounted
		Method of system earthing	effectively earthed system	*
		Standard fittings shall be provided with each distribution transformer	as per Cl.20.1 of IS:1180 (Part 1):2014 Amdt.1	*
		Noise level at rated voltage and frequeuncy, Maximum (in dB)	55	55
TRANSFORMER TANK		Transformer tank cover construction	Non-sealed, Bolted	Non-sealed, Bolted
		Tank configuration with	With radiator fins	With radiator fins
		Type of cooling	ONAN	*
		Material of transformer tank	Stainless steel	Stainless steel
		Minimum thickness of top and bottom material of transformer tank (in mm)	6	6

	Minimum thickness of side material of transformer tank (in mm)	4	4
	Material of Bolts/Nuts/Wahers exposed to atmosphere	Stainless steel (for upto 12 mm size),Brass (for upto 12 mm size),Electro Galvanized (for above 12 mm size),Hot Dip Galvanized (for above 12 mm size)	Stainless steel (for upto 12 mm size), Brass (for upto 12 mm size), Electro Galvanized (for above 12 mm size), Hot Dip Galvanized (for above 12 mm size)
	Gaskets wherever used shall conform to	Type III (as per IS:11149) Type C (as per IS:4253 (Pt.2)	Type III (as per IS:11149) Type C (as per IS:4253 (Pt.2)
	Provision of conservator	Yes , for Non sealed type with Plain tank construction	Yes , for Non sealed type with Plain tank construction
	Insulating Oil	Mineral oil (as per IS:335 latest)	*
	Quantity of Insulation oil required (in litres) - Must declare	-	*
	Transformer to be supplied with transformer oil	Yes	*
	Shape of transformer tank	Rectangular	*
	Pressure and Vacuum requirements	as per Cl.15.2 of IS:1180 (Part 1):2014 latest	*
Painting	Type of painting on inside of tank (hint: Refer Table 12 of IS:1180 (Pt.1):2014)	Oil resistant paint	Oil resistant paint
	Type of painting on External surface of tank (hint: Refer Table 12 of IS:1180 (Pt.1):2014)	Epoxy (Primer)	Epoxy (Primer)
TAP CHANGER	Tap changing arrangement	Off circuit , externally operated switch with mechanical locking device and a position indicator	*
	Winding tapped	HV	HV
	No. of positions (in Nos.)	7	7
	Voltage variation	+5% to -10% in steps of 2.5% for variation of	+5% to -10% in steps of 2.5% for variation of

		HV	HV
TERMINAL ARRANGEMENT	Transformer fitted with bushings of appropriate voltage and current ratings on HV side	Yes. 3 Nos. (Conforming to IS:2099)	Yes. 3 Nos. (Conforming to IS:2099)
	Transformer fitted with bushings of appropriate voltage and current ratings on LV side	Yes. 4 Nos. (Conforming to IS:7421)	Yes. 4 Nos. (Conforming to IS:7421)
	Suitable provision for adoption of cables of suitable size on LV side	No	No
	Cable End Box on HV side	Yes	Yes
	Cable End Box on LV side	Yes	Yes
AIR CLEARANCE	Minimum External air clearances between bushings mounted on transformers	as per Table 10 of IS:1180 (Part 1):2014 latest	*
	Minimum air clearances in cable box	as per Table 11 of IS:1180 (Part 1):2014 latest	*
	Suitable bimetallic connectors (clamp type) shall be provided on both HV and LV side in order to ensure sound and robust connection	Yes. For Bare bushing termination	*
MARKING	Material of rating plate	Anodized aluminium	Anodized aluminium
	Marking method on rating plate	Engraved	Engraved
	Rating and terminal marking plates combined into one plate	Yes	Yes
	Dimension of Rating Plate, Terminal Marking Plate and Combined Rating and Terminal Plate	as per OEM Specn.	*
	Agreed to provide Departmental Logo/Identification marking (shall be	Yes	*

	engraved on the transformer) as prescribed by buyer separately		
OPTIONAL FITTINGS	Suitable rating lightning arrestors	No	No
	Bird guard	No	No
	Terminal connectors	No	No
	Oil temperature indicator and winding temperature indicator	Yes	Yes
	Jacking pads	No	No
	Buchholz relay	Yes	Yes
	Magnetic oil level gauge with low oil level alarm contact	No	No
	Non return valve	Yes	Yes
	Protection relay for sealed type transformers for internal parameters that is pressure, temperature, oil level and gas detection	No	No
	Unidirectional flat rollers	Yes	Yes
	Drain cum sampling valve	Yes with steel plug (for transformers upto 500 KVA)	Yes with steel plug (for transformers upto 500 KVA)
	Self protection / disconnection devices	No	No
	Expulsion fuse as disconnection device	No	No
SERVICE CONDITION	Maximum ambient air temperature (in deg. C)	50	*
	Minimum ambient air temperature (in deg. C)	-5	*
	Maximum average daily ambient air temperature (in deg. C)	40	*
	Maximum yearly weighted average ambient temperature (in deg. C)	32	*
	Min. Relative humidity	26	*

	(in %)		
	Max. Relative humidity (in %)	95	*
	Max. Wind Pressure kg/sq.m	150	*
	Maximum altitude	<5000 m	<5000 m
TEST REPORTS & CERTIFICATIONS	Availability of type test reports to prove the confirmity of the specification from	Central Govt. Lab (Govt. Of India)	Central Govt. Lab (Govt. Of India)
	Agreed to furnish type test reports to the buyer / consingee on demand	Yes	*
	Agreed to furnish routin test reports to the buyer / consingee on demand	Yes	*
	Agreed to furnish valid BIS Licencse certifice to buyer / consignee on demand	Yes	*
	Agreed to furnish valid Energy Star Rating certifice to buyer / consignee on demand	Yes	*
	Agreed to furnish complete drawings of Distribution transformer to the buyer / consignee on demand	Yes	*
	The design calculation in support of flux density shall furnish to the buyer / consignee	Yes	*
	Agreed for stage Inspection as required by buyer	Yes	Yes
	The product shall comply with all relevant Gazette notifications of Govt., of India with all latest amendments up to date, as applicable	Yes	*
SPECIAL TEST REPORTS	Availability of test report for Determination of sound level test	No	No

Availability of test report for short circuit withstand test	No	No
Availability of test report for No load current at 112.5 % Voltage	Yes	Yes
Availability of test report for Paint adhesion test	No	No
BDV and moisture content of oil in the transformer	Yes for 1 No.	Yes for 1 No.
Other requirements	Losses and Impedance values as per Cl.7.8 and Table 6 of IS:1180 (Part 1):2014 latest,Limits of temepature-rise as per Cl.7.10 of IS:1180 (Part 1):2014 latest	Losses and Impedance values as per Cl.7.8 and Table 6 of IS:1180 (Part 1):2014 latest, Limits of temepature-rise as per Cl.7.10 of IS:1180 (Part 1):2014 latest

* 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	Akash Kumar Singh	124505,HPCL, Bahadurgarh LPG Plant, VPO; Asaudha, Bahadurgarh, Haryana-124505	1	91

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods
2. Bidders can also submit the EMD with Account Payee Demand Draft in favour of HINDUSTAN PETROLEUM CORPORATION LIMITED payable at MUMBAI.
Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---