MAHARSHI DAYANAND UNIVERSITY ROHTAK NOTICE INVITING TENDER

Sealed tenders are invited on behalf of the Registrar, M. D. University, Rohtak from the reputed manufacturer/authorized dealers/dealers for supplying of following material.

Sr. No. Description	Approximate amount (Rs.)	Earnest money (Rs.)	Cost of tender form (Rs.)	Last date of sale of tender form	Last date of receipt of tender	Time limit
Purchase of 200 KVA Out door transformer	12.00 lacs	24,000/-	1000/-	02.12.2010 (upto 1.00 PM)	02.12.2010 (Upto 3.00 P.M.	20 days

CONDITIONS

- 1. D.N.I.T. and other terms and conditions can be seen in the office of undersigned on any working day during office hours.
- 2. The tenders will be opened on 02.12.2010 at 3.30 p.m. in the office of the Registrar, MDU, Rohtak in the presence of tenderers or their authorized representative who may like to be present at that time.
- 3. The earnest money should be in the shape of demand draft/deposit at call receipt on scheduled bank pledged to Executive Engineer, MDU, Rohtak payable at Rohtak.
- 4. The Engineer-in-charge shall have the right to reject any/all the tenders without cognizance reason.
- 5. In case tendering day happens to be a holiday, the tenders will be received / opened on next working day at the same time.
- 6. Rates be quoted F.O.R. Engineering Cell Store.
- 7. Notice inviting tender can be seen at web site WWW.mdurohtak.com
- 8. The rates should be quoted strictly for the Makes mentioned in the DNIT.
- 9. All charges payable by the University should clearly be stated.
- 10. The tender received without earnest money, or after the due date, shall not be entertained.
- 11. Supplies shall be executed within the time specified in the supply order which may be extended by the XEN on the application of the supplier explaining reasons/circumstances due to which time limit could not be adhered to. In the event of the supplier failing to supply the material within time, he shall be liable to pay as compensation an amount equal to one percent or such small amount as the Registrar may decide on the said amount of the contract, for every day that the quantity remains incomplete, provided that the entire amount of compensation shall not exceed 10% of the total amount of contract. An appeal against theses orders shall, however, lie with the Vice-Chancellor whose decision shall be final.

- 12. In case, the agency/manufacture backs out of his contract, the earnest money deposited by him shall be forfeited besides any other action as may be considered necessary by the Vice-Chancellor.
- 13. The quantity of material/supplies shall be subject to increase or decrease on the tendered rates. The contractor/supplier shall not be entitled for any claim due to increase/decrease in quantities of material.
- 14. The acceptance of goods is subject to the approval of the Inspection Committee.
- 15. The rates accepted by the University shall be applicable upto 90 days and the supplier shall have to make supply during the period as and when required.
- 16. If the rates are approved by the DGS&D and other Central/State Agency, the same must be quoted and the copy of the rate contract be attached.
- 17. All disputes subject to Rohtak jurisdiction.

Executive Engineer

Dated: 03 .11 .2010

Endst. no. EE/2010/5155-95

action:

A copy of the above is forwarded to the following for information and necessary

- 1. Superintending Engineer, PWD B&R Circle, Rohtak
- 2. Executive Engineer, PWD B&R (Medical College), Rohtak
- 3. Executive Engineer, KUK / HAU, Hisar / GJU, Hisar / CDLU, Sirsa
- 4. Secretary to Vice-Chancellor (for kind information of Vice-Chancellor), MDUR
- 5. P.A. to Registrar (for kind information of Registrar), MDU, Rohtak
- 6. SDE(C-I, II, III) / SDE (E-I, II) / SDE (PH) / SDE (Horti.-I, II), MDU, Rohtak
- 7. Divisional Accountant / H.D.M., Engineering Cell, MDU, Rohtak
- 8. Notice Board

9). (Contractor/	Agency	Society:				

Executive Engineer

Detail for the work "Purchase of 200 KVA out door transformer, MDU, Rohtak"

App. Amt. Rs. 12,00,000/-Time Limit: 15 days

Description Rate (Rs.) Sr. No. / Qty. Unit HSR 1/N.S. Supply of Kirloskar/Crompton Greaves make 200 KVA 4 Nos. Rate to be quoted by the Each 11/0.433 KV out door step down transformer 3 phase 50 HZ agency/manufacturer (tapping range $\pm 5\%$ in steps of 2.5% each) copper double wound transformer with first filling of oil conforming to ISI and with H.T. bushing and L.T. bushing complete in all respect. Accessories(to be supplied along with transformer): 1. Name, Rating & diagram plate = 1 no.2. Off circuit tap changing switch if not opted for OLTC = 1 no. 3. Earthing terminals \doteq 2 nos. 4. Lifting lugs = 2 nos.5. Oil level indicator (flush tube) = 1 no.6. Oil drain valve with plug = 1 no.7. Oil filter valve with plug(on and above 160 KVA) = 1 no. 8. Conservator with oil filling hole = 1 no. 9. Thermometer pocket = 1 no.10.4" dial type thermometer stem type and with MRP (if OTI not opted) = 1 no.11. Air release plug = 1 no.12. Silicagel breather = 1 no.13. Removable inspection opening (on and above 315 KVA) = 1 no.14. Explosion vent (if PRV not opted) = 1 no.15. Bidirectional C.J. rollers (on and above 1000 KVA) otherwise unidirectional (on and above 160 KVA) = 4 nos. 16. Arching horn set (only for HV bore bushing type transformer) = 3 nos.

Contd....P/2...

Transformers Technical Specifications:

<u>PARAMETERS</u>	SPECIFICATIONS			
1. Service	Outdoor type			
2. KVA Rating				
a) HV Winding				
b) LV Winding	200 KVA (CU. Wound)			
3. Rated Voltage: HV/LV Winding	11/0.433 KV			
4. Rated Frequency	50 Hz			
5. Number of phases	3			
6. Connections HV/LV Winding	Delta/Star			
7. Connection Symbol	Dyn 11 .			
8. Tappings:				
a) Range	±2.5%			
b) No. of steps	5, including the Principle Tapping			
c) For high voltage variation or low voltage variation	For High Voltage Variation			
9. a) Reference ambient air temperature	75°C			
b) Maximum ambient air temperature	50°C			
10. Type of cooling	ONAN			
11. Maximum Temperature Rise				
a) Top oil (by Thermometer)	50°C			
b) Winding (By Resistance)	55°C			
12. Component Losses				
 a) No load losses at rated voltage and at rated frequency 	550W			
b) Load losses at rated current at principle tapping and at 75°C	3300W			
c) Total losses	3850W			
13. Percentage impedance at 75°C at rated current and for the principle	4.5%			
tapping (HV-LV)	4.186%			
14. Reactance at rated current and rated frequency(HV-LV)	2.0%			
15. Percentage No Load current at rated voltage and rated frequency	The Radiators are directly mounted on the			
16. Input to cooling plant	transformer tank body			
17. Insulation level:				

A) Separate source power frequency voltage withstand	28.0 KV
I. HV Winding	3.0KV
II. LV Winding	
B) Induced over voltage withstand:	22 KV
I. HV Winding	866 V applied Across LV terminals
II. LV Winding	
C) Full wave lightening impulse withstand voltage:	75 KVP
I. HV Winding	NOT APPLICABLE
II. LV Winding	
18. A Efficiency at 75° and at U.P.F.	98.11%
a) At 100% full load	98.42%
b) At 75% full load	98.64%
c) At 50% full load	
B. Efficiency at 75° at 0.8 P.F.	87.65%
a) At 100% full load	98.03%
b) At 75% full load	98.31%
c) At 50% full load	40.82%
19. a) The load at which maximum efficiency occurs	98.67%
b) The value of maximum efficiency	
20. Regulation at full load at 75°	1.738%
a) At unity power factor	3.859%
b) At 0.8 power factor	Off circuit tap switch, provided on the HV
21. In case of off circuit voltage variation state whether: Off circuit tap	winding, three phase, externally, hand
switch, or off circuit links	operated, having tap position marking on the
	dial and capable to be locked in any
	particular tap position.
22. Terminal arrangement;	
a) High Voltage	
b) Low voltage	Outdoor Type, LV Bare Bushing, HV Bare
c) Neutral	Bushing
23. Approximate Masses:	
a) Core & winding (Assembly)	460 kg.
b) Tank with fittings & accessories	225 kg.
c) Oil weight	205 kg.
d) Total mass	

24. Approximate quantity of oil required for first filling	240 liters
25. Approximate overall dimensions (LxBxH)	1150x1150x1450 (in mm)
26. Reference standard	IS:2026(Part I to Part IV), IS: 6600, IS:
	3347, 1S:2099, IS: 335 etc. and also
	conforming to the purchaser's specification,
	if any.

Remarks:

- 1. The above quoted electrical performance date are subject to tolerance as per ISS.
- 2. The weight, quantity and dimension figures are approximate and subject to $\pm 10\%$ tolerance.