

# MAHARSHI DAYANAND UNIVERSITY ROHTAK

## NOTICE INVITING TENDER

Sealed tenders on percentage basis are invited on behalf of the Registrar, MDU, Rohtak from contractors/societies / agencies on approved list of Haryana PWD B&R / P.H. Br., MES, CPWD, autonomous bodies and other State / Centre Govt. undertakings. The tender forms will be issued to the contractors / societies / agencies up to the date of opening of tenders as mentioned against work by 12:00 Noon and will be received upto 2:00 P.M. in the office of the Registrar and opened at 3:00 P.M. on the same day in the Committee Room of Vice-Chancellor office in the presence of the tenderers or their authorized representatives, who may like to be present at that time. **The tender documents may be obtained from the office of the undersigned and the same be deposited in the office of the Registrar by the due date.**

Sr. No.	Name of work	App. Amt. (Rs.)	Earnest Money (Rs.)		Cost of tender form (Rs.)	Date of opening of tender	Time limit
			Society	Contractor			
1.	SITC of 125 KVA D.G. sets (1 No.) for UIET building in MDU, Rohtak	11,00,000/-	--	22,000/-	1,000/-	29.01.2013	02 months
2.	Shifting of sewer line between Himalaya Boys Hostel and newly constructed Psychology building in MDU, Rohtak	4,78,000/-	4,780/-	9,560/-	500/-	29.01.2013	02 months

### CONDITIONS:-

1. Complete NIT / DNIT (Detailed Notice Inviting Tender) alongwith eligibility criteria/terms & conditions and changes if any can be seen in the office of undersigned on any working day during office hours (9:00 AM to 5:00 PM) and on University Website – [www.mdurohtak.ac.in](http://www.mdurohtak.ac.in)
2. The tenderer will keep in touch with the University Web site for any change in the NIT / DNIT till the last date/revised last date of sale of tender and incorporate such changes in NIT / DNIT and the tender bids.
3. At the time of purchase of tender documents, the contractors should submit the following documents:-
  - (a) Proof of enlistment.
  - (b) Copy of PAN card.
  - (c) Copy of latest income tax return.
  - (d) Successfully work done certificates of similar nature of works during last 5 years including the running financial year as under:-
    - One certificate of 80% of the estimated cost of this tender.
    - Or
    - Two certificates of 60% of the estimated cost of this tender
    - Or
    - Three certificates of 40% of the estimated cost of this tender

All the above certificates in paras 3(a) to 3(d) above will be self attested and stamped with the stamp of the firm.

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4. In case tendering day happens to be a holiday, the tenders will be received / opened on next working day at the same time.
5. Validity of tender will be 90 days.
6. Earnest money is to be deposited at the time of purchase of the tender. It should be in the shape of Demand Draft or Deposit at Call in favour of the Executive Engineer, MDU, Rohtak payable at Rohtak.
7. Contractors shall quote single percentage of rate below/above/at par on (HSR+C.P.) on all chapters. N.S. item rates are to be quoted separately. The tender, without the rates of N.S. items, if any, in DNIT, will be rejected.
8. Conditional tender is liable to be rejected.
9. Any work, here tendered, may be withdrawn from further processing at any stage at the discretion of the competent authority without assigning any reason.
10. Engineer-in-Charge is competent to increase / decrease the quantity of work. In case of decrease of quantity, the contractor shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full.
11. Nothing extra whatsoever shall be paid on account of losses, damages done by rains or any other natural calamity.
12. The tender is liable to be rejected if the tender is found in variance of the above conditions or the conditions of the DNIT.
13. The University reserves the right to accept or reject or negotiate any of the tender or conditions/items without assigning any reason.
14. Plumbing and E.I. work shall be got done through license holder agencies for the works involving PH / E.I.
15. The agencies shall paste the cello tape on the rates quoted by them.
16. Tender by post / telegraphic/courier shall out rightly be rejected.
17. Exemption of tender fee or earnest money or security will not be permitted in any case.

Executive Engineer(C-II)

Endst. No. EE/ 2013 /311-341

Dated: 08 .01.2013

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

1. Superintending Engineer, PWD B&R Circles, Rohtak
2. Technical Advisor to VC, MDU, Rohtak
3. Executive Engineer(C-II), MDU, Rohtak
4. Executive Engineer, PWD B&R (Medical College), Rohtak / KUK / HAU. Hisar / GJU, Hisar / CDLU, Sirsa / BPS Women University, Khanpur/ DBSCRU, Murthal
5. Secretary to Vice-Chancellor (for kind information of the Vice-Chancellor), M. D. University, Rohtak
6. P.A. to Registrar (for kind information of Registrar), MDU, Rohtak
7. SDE(C-I, II, III) / SDE (E-I) / SDE (PH) / SDE (Horti.-I, II), MDU, Rohtak
8. Divisional Accountant / H.D.M., Engineering Cell, MDU, Rohtak
9. Notice Board
10. Contractor/Agency/Society:\_\_\_\_\_

Executive Engineer (C-II)

**DNIT for the work of SITC of 125 KVA D.G. Sets (1 no.) for UIET building in MDU Rohtak.**

Sr. No	H.S.R No.	Qty.	Description	Rate	Unit
1.	6.6	25 cum	Earth work in excavation in foundations, trenches etc. in all kinds of soils, not exceeding 2 meters depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 metres.	@ Rs. 1108.10 ( Rs. One thousand one hundred eight and paisa ten only)	100 cum
2	10.42	15 cum	Cement concrete 1: 1 ½ : 3 with stone aggregate 20 mm nominal size in foundation and plinth.	@ Rs. 702.50 (Rs. Seven hundred two and paisa fifty only)	cum
3	10.44	5 cum	Cement concrete 1:8:16 with brick ballast 40 mm nominal size in first storey upto 4 metres above plinth level	@ Rs. 306.45 ( Rs. Three hundred six and paisa forty five only)	cum
4	11.4	5 cum	First class brick work laid in cement sand mortar 1:4 in foundation and plinth	@ Rs.424.60 (Rs. Four hundred twenty four and paisa sixty only)	cum
5	15.5	18 sqm	12 mm thick cement plaster 1:4	@ Rs. 12.70 (Rs. Twelve and paisa seventy only)	Sqm

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Sr. No	H.S.R No.	Qty.	Description	Rate	Unit
6	31.21	20mtr.	<p>(P) Pipe laying Supply &amp; erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required:-</p> <p>(xxx) S/Erection of PVC pipe of 6 Kg. pressure. Laid 1 metre below ground level complete including digging refilling of the trench with jointing etc :-</p> <p>(a) PVC pipe 120 mm dia</p>	<p>@ Rs 59.00 (Rs. Fifty nine only)</p>	Metre
7	31.22	6 nos.	<p><b>(Q) Earthing</b></p> <p>(iv) Earthing with tinned copper earth plate 600mm x 600mm x 3 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) etc. complete as required.</p>	<p>@ Rs. 1149.00 (Rs. One thousand one hundred forty nine only)</p>	Each
		6 nos.	<p>(v) Extra for charcoal or coke and salt for G.I. plate or copper plate earth electrode.</p>	<p>@ Rs. 186.00 (Rs. One hundred eighty six only)</p>	Each
		45 mtr.	<p>(x) Providing and fixing 25mm x 5mm copper strip in 40mm dia G.I. pipe from earth electrode as required.</p>	<p>@ Rs.155.00 (Rs. One hundred fifty five only)</p>	Metre
		20 mtr.	<p>(xiv) Providing and fixing 25mm x 5mm copper strip on surface or in recess for connections etc. as required with all labor and material.</p>	<p>@ Rs. 117.00 (Rs. One hundred seventeen only)</p>	Metre

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Sr. No	H.S.R No.	Qty.	Description	Rate	Unit
8	31.25	25 mtr.	(S) Under Ground Cables Supply & erection of underground cable 1 metre below ground level covered with sand and bricks including necessary connections, digging and refilling of trenches. (xxxiii) 240 Sqmm 3 ½ Core Cable (Armoured)	@ Rs. 298.60 (Rs. Two hundred ninty eight and paisa sixty only)	Metre
9	31.26	35 mtr.	Supply and erection of underground cable, loose in existing pipe or trenches complete with necessary connections : (xxxiii) 240 Sqmm 3 ½ Core Cable (Armoured)	@ Rs. 286.00 (Rs. Two hundred eighty six only)	Metre
10	31.28	4 nos.	Supply and erection of suitable compression type brass cable glands for underground cable:-  (vi) 240 sqmm Cable 3 to 3 ½ Core	@ Rs. 35.00 (Rs. Thirty five only)	Each
11	31.35	4 nos.  12 nos.	(x) Miscellaneous (ix) S/E of aluminum lugs heavy duty including crimping etc. upto the entire satisfaction of Engineer in charge of work :  (j) 120 sqmm  (m) 240 sqmm	@ Rs. 7.90 (Rs. Seven and paisa ninety only)  @ Rs. 18.50 (Rs. Eighteen and paisa fifty only)	Each  Each

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Sr. No	H.S.R No.	Qty.	Description	Rate	Unit
12	31.63	5 sqmm	<p>Supply installation testing and commissioning of Wall/ free standing floor mounting dust &amp; vermin proof compartmentalized cubical panel made out of 2 mm thick CRCA sheet, required hardware 3 mm thick Bakelite sheet provided all along the bus bar and cable alley separating switches compartment and supporting suitable channel duly painted by 2 coat of Zine/Red oxide primer followed by 2 coats of powder coating in grey or required shade after rinsing. The panel having PU/ Neoprene rubber gasket of not less than 3 mm thickness separate detachable gland plate MS base channel hinged door with inter locking arrangement for equipment/ switch wear.</p> <p>Transparent acrylic sheet shall be provided in front of bus bar compartment to prevent direct access to bus bar Bakelite sheet 3 mm thick for separately cable alley to BBC from switch chamber extended solid copper bars upto cable alleys shall be provided for outgoing connection which shall be paid as extra items. Side walls and cable alley compartments shall be having bolted type doors with detachable extension type structure. The panel will be complete with control wiring (copper) and fuse protection. (Only outer area on all sides shall be measured)</p>	<p>@ Rs. 2160.00 (Rs. Two thousand one hundred sixty only)</p>	P. Sqm.
13	31.65	1 no.	<p>Providing and fixing digital metering equipment for LT cubical panel consisting of 96 mm x 96 mm 0-500V, volt meter with selector switch, Amp. meter ( of required ratio up to 600/5 amp.) with selector switch and required C.Ts 3 nos...., a set of 3 no. phase indication lamps RYBLED</p>	<p>@ Rs. 4050.00 (Rs. Four thousand fifty only)</p>	Each
1	N.S.	1 no.	<p>SITC of off load change over switch A.C. 21 (side handle) with enclosure 415V. Havells make. Model No. 1 HCFFE 0400 on existing sheet/ Pedestal with necessary connections.</p>	<p>Rate to be quoted by the contractor</p>	Each

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Sr. No	H.S.R No.	Qty.	Description	Rate	Unit
2	N.S.	1 no.	SITC of 125 KVA Silent D.G. Set comprising of KIRLOSKAR Engine Model 6R1080 TA Engine (BHP) 156 coupled with 415 V. 125 KVA/100KW alternator 3 phase KIRLOSKAR make alternator & Engine both are mounted on common base frame with Standard control panel, i.e. fuel tank, battery with leads AVM Pads and acoustic enclosure (Canopy) as per CPCB norms and alongwith first filling of (K. Oil & K. cool)	Rate to be quoted by contractor	Each

### **Specification of KIRLOSKAR GREEN Canopy**

#### **Acoustic Enclosure**

KIRLOSKAR GREEN Acoustic enclosure shall be powder coated and fabricated out of 16 SWG CRCA MS sheet. The silent canopy shall be of nut bolt type construction. Critical processes of punching is done on CNC machines to maintain dimensional accuracy of holes within 0.1mm. Powder coating is done after seven-tank surface preparation process of sheet metal. Canopy panel and doors shall have inside lining of FIRE-RETARDANT foam as acoustic material up-to 125 KVA & rock wool for high ratings. Four hinged doors shall be provided to canopy, one door shall have glass window for control panel.

#### **Base Frame**

Base frame is fabricated either in ISMC channel or in sheet metal. The base frame will be primer coated and painted. The base frame is rugged construction and designed for mounting KOEL engine and KG alternator close coupled, with cross members mounted on AVM. The base frame shall have provision for mounting of acoustic enclosure & control panel on in it. The base frame is having provision of lifting hook for convenient lifting of complete set, i.e. along with canopy, engine and alternator.

#### **Color scheme**

The base plate and top is painted with OXFORD BLUE/ PEPSI BLUE, the canopy is powder coated with IVORY color.

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### **Performance Parameters**

The sound level, when measured in green field condition (ISO 3744 OR 8528 PT 10) at 1-metre distance shall be less than 75-DBA or as per CPCB norms.

The average stabilized hot air temperature rise with in the canopy is maintained within 7<sup>0</sup>C above ambient temperature.

### **KIRLOSKAR GREEN SILENT CANOPY FEATURES**

- . RTU canopy kits, which can be assembled on site within a time period of 90 minutes.
- . Canopy fabricated on imported machines with dimensional accuracy of 0.1 mm.
- . Canopy is powder coated after passing through seven tank processes.
- . Canopy is lined with acoustic foam/rock wool, which is non-igniting / Fire Retardant (confirming to BS 4375/BIS 7888).
- . No grouting required on the ground, only a level surfaces capable of withstanding the DG weight.
- . Designed for installation in open-air conditions.
- . Lockable doors provided.
- . Lockable fuel filling arrangement provided external to the canopy.
- . Residential silencer.
- . Externally accessible emergency stops button.
- . The exhaust gases shall be taken out through a suitable flexible pipe to prevent any back pressure on the engine.

### **Exhaust system**

The exhaust system and noise suppressor shall be provided with thermal insulation by using fire retardant/ non igniting foam conforming to BIS 7888/BS 4375 to prevent excess heat radiation on the engine and safe for operator.

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**Silencer:**

Absorption type non-resistance Residential Silencer insulated from inside with glass wool shall be provided to suppress exhaust noise from the engine including extended cost of G.I. silencer pipe and accessories as per site requirement.

**Wiring and Lighting:**

PVC Copper Wire concealed in flexible conduit with florescent tube light/ bulb with MCB shall be provided.

**Surface Treatment-Painting:**

The enclosure surface shall be suitably treated for degreasing, derusting and phosphating. High quality powder coat treatment/ paint shall be used.

**Fuel Tank:**

Fuel tank shall be fabricated out of 14SWG CRCA MS Sheet and is part of base frame. It is duly painted and fitted with inlet and outlet connections. Float gauge and fuel float switch is provided.

Kirloskar Brand Stickers with Green band as per Kirloskar design.

Canopy lights: One No. DC bulb to be fitted with suitable toggle switch and wiring.

**Emergency Push Stop Button**

The canopy shall have provision of emergency push button, which shall be housed in a protective enclosure with a glass front.

## **SPECIFICATION FOR STANDARD MANUAL CONTROL PANEL**

### **SCOPE OF SUPPLY:**

The standard control panel is fabricated from 16 SWG sheet and powder coated after seven tank treatment process. The panel is equipped with:

(A) Digital Genset Control Unit

Digital Control Unit Specially designed to Standardize most of control Panels components in Single Unit.

Salient Features of Controller as per controller specifications

(B) The Control Panel is equipped with MCB/MCCB of Suitable rating

(C) The Control Panel consist with CT, PT alongwith Aluminium bus bars & wires.

- a). Set of Push Buttons  
(a) Engine start/ stop,  
(b) Emergency stop

- Note :
1. The underground cable will be used of Havells / Polycabe make No extra payment will be allowed on this account.
  2. PVC pipe of 6 Kg. pressure Kasta / Swastik / Supreme make of HSR item no. 31.21 will be used. No extra payment will be allowed on this account.
  3. The material used for HSR Item no. 31.12, 31.15, 31.17 and 31.41 will be used of Standard/ Havells make and no extra payment will be allowed on this account.
  4. PVC copper wire 31.38, 31.39 and 31.40 will be used of Plaza/ Havells/ Polycabe make and no extra payment will be allowed on this account.

### DETAIL OF WORK

**Name of work: “Shifting of sewer line between Himalaya Boys Hostel and newly constructed Psychology building in MDU, Rohtak”**

Sr. No. / HSR	Qty.	Description	Rate(Rs.)	Unit
1/6.10(a)- Note (i) of 6.12	1105.40 cum	Excavation of trenches in streets, lanes or in open areas for storm sewer, sewers running by gravity and manholes to full depths as shown in drawings including shoring, timbering of poling boards, frame system type, dressing to correct sections and dimensions, according to templates and levels, dewatering, provision for diversion of traffic, cutting trees and bushes etc night signals, profiles, pegs, sight rails, bonding rods crossing over trenches for access to the houses, watching , fencing etc. fixing and maintenance of caution boards, refilling of trenches, watering of refill, in 15 cm layers, ramming and restoration of unmetalled or unpaved surface to original site of work upto a lead of 1 KM in ordinary soil. (b) for depths of excavation not exceeding 3 meters, but not exceeding 4.5 metres. Note 6.12 (i) :- Rates as per item No. 6.10 include cost of poling board, frame type of timbering and where timbering is not actually done, a recovery at the rate of Rs. 730.00 per 100 cum of earth work shall be made.	@ Rs. 1384.00 (Rs one thousand three hundred eighty four only)	Per 100 cum
2/10.28	35.09 cum	Cement concrete 1:8:16 with stone aggregate 40mm nominal size in foundation and plinth.	@ Rs. 318.65 (Rs. three hundred eighteen and paisa sixty five only)	Per cum

Sr. No. / HSR	Qty.	Description	Rate(Rs.)	Unit
3/29.95	188.98 mtr	Providing, salt glazed stone ware pipes grade 'A' in standard length of 600mm each pipe marked with IS:651 and their lowering, cutting, jopinting and testing as described in HSR 29.38, 29.39, 29.40 including the cost of jointing materials as well as carriage, loading, unloading, stacking, handling, re-handling etc. complete in all respects to the satisfaction to the Engineer-in-Charge. (iv) 300mm i/d	@ Rs. 560/- (Rs. Five hundred and sixty only)	Per mtr.
4/10.41	45.92 cum	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size in foundation and plinth	@ Rs. 615.60 (Rs. Six hundred fifteen & paisa sixty only)	Per cum
5/29.84	15 nos.	Constructing brick masonry inspection chamber size as given below upto 0.60 metre average depth in cement mortar 1:5 lime concrete with 40 percent lime mortar 2:3 in foundation cement concrete 1:2:4 benching 12 mm thick cement plaster 1:2 with a floating coat of 1 mm thick of neat cement RCC1:2:4 slab 100 mm thick/C.C. topping, 50 mm thick with 455 mm x 455 mm/455mmx610 mm inside light duty C.I. inspection chamber cover and frame weight as per I.S. specification painted with 3 coats of black bitumastic superior paint complete as per standard design. (c) size 600 mm x 900 mm inside (with 455 mm x 455 mm cover and frame light duty single seal weighing 20 kg with RCC slab)	@ Rs. 690.00 (Rs. Six hundred ninety only)	Each
6/29.85	02 nos.	Extra for over 0.30 metre depth of inspection chamber:- (c) 600mmx 900mm	@ Rs. 139/- (Rs. one hundred thirty nine only)	Per 0.30 metre depth
7/N.S.	346 sqm	Dewatering of underground water according to excavation of sewer line	Rate to be quoted by the contractor	Per sqm