



Bhagat Phool Singh Mahila Vishwavidyalaya

Department of Engineering Cell

Khanpur Kalan (Sonapat), Haryana-131305

Office No. 01263-283007,283530, Fax No. 01263-283779, www.bpswomenuniversity.ac.in

NOTICE INVITING TENDER

Sealed limited tender on the prescribed form are hereby invited on behalf of Worthy Registrar in the Office of the Principal Ayurveda BPSMV Khanpur Kalan from eligible agency/distributor/Supplier enlisted in Central Govt. of CPWD/State Govt. of reputed manufactures or their authorized dealers. The tender shall be opened on the same day in the presence of the authorized representative agents who may like to be present at that time. The tender notice will be uploaded on the University Website www.bpswomenuniversity.ac.in.

Sr. No.	Name of Work	App. Cost. Rs. in lacs	Earnest Money from		Time Limit	Date & Time for Receiving of Tender		Date & Time for opening of Tender	
			Societies	Eligible Contractor Dealer/Manufacturer		Date	Time	Date	Time
1.	Tender for supply and erection of electrical items to repair the machines in pharmacy Lab in MSM Institute of Ayurveda in the campus of BPSMV, Khanpur Kalan.	0.82 lac	800/-	1600/-	One Month	14.09.2017	1:00 pm	14.09.2017	3:00 pm

1. The Items rate to be quoted by the agency as per attached DNIT. Conditional tender will not be accepted.
2. The quotation may be sent in favour of the Registrar, BPSMV Khanpur Kalan in sealed envelope by registered post.
3. In case the day of opening of bid happens to be holiday. The tender will be opened on the next working day. The time and place of receipt of bid and other condition will remain unchanged.
4. The tenderer shall be enlisted P.W.D B&R / CPWD / MES Contractor of Haryana of India State / central govt. having, VAT number, PAN number etc., along with while quoting the rates.
5. The earnest money shall be deposited in favour of Registrar, BPSMV Khanpur Kalan by demand draft. The Application on printed letter head along with their above documents must accompany with self attested copy with respective rubber seal.
6. 5% security will be deducted from the all bills or deposit as Bank Guarantee of authorized National Bank of contract value of all money and same will be refunded after guaranteed period of satisfactory supply of material and earnest money will be adjusted as security.
7. Engineering –In-Charge is competent to increase/decrease the quantity of work.
8. Central/ State taxes, G.S.T. etc will be applicable from time to time as per Govt./University rule for execution of work supply of material.
9. Engineer-in-charge shall have the right to make any amendment which in his opinion may be necessary during the progress of executive of the work, such amendment shall in no way, invalidate the contract and material will be got inspected before payment by committee members.
10. Material shall be supplied as per specification and in good conditions by the agency.

**Principal Ayurveda
BPSMV Khanpur Kalan.**

Endst. No./ BPSMV /Engg./17/

Dated

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

1. Executive Engineer, Electrical Division PWD B&R Karnal, PWD B&R Rohtak
2. Executive Engineer MDU Rohtak/GJU Hisar/DCRUS&T Murthal Sonipat.
3. M/s Devender Gupta, Govt. Contractor, Electrical, House No. 959, Sector-3, Rohtak.
4. M/s Dharpal Electrical/civil Govt. Contractor, VPO Nadina (Rohtak)
5. M/s Kashmiri Lal Chawla Govt. Electrical Contractor DLF Colony (Rohtak).
6. M/s Rana Electrical, Bhalgrah Road, Sonipat.
7. M/s Dev Electrical, Jali Road, Rohtak.
8. M/s Lalit Kumar, Govt. Electrical Contractor, Sonipat.
9. M/s Vaibhav Laxmi, Sector-3, Rohtak.
10. P.A. to Vice-Chancellor (for kind information of the Vice-Chancellor) BPSMV, Khanpur Kalan, Sonipat.
11. P.A. to Registrar (for kind information of the Registrar) BPSMV, Khanpur Kalan, Sonipat.
12. Incharge university website.
13. Notice Board.

Principal Ayurveda
BPSMV Khanpur Kalan.

Schedule of D.N.I.T

Name of Work:-Tender for supply and erection of electrical items to repair the machines in pharmacy Lab in MSM institute of Ayurveda in the campus of BPSMV Khanpur Kalan.

Estimated Cost:- 82000/-

S. no.	Description of items	Qty	Rate to be quoted by the agency
1	Supply and erection of metal clad switches / B.D.Bs with rag bolts on wall or on existing angle iron board / pedestal including bonding to earth and necessary connections . HSR-31.12(a) (xiv) Cat-B		
	Triple pole switch with neutral link 32 amp. 415 Volts. HSR-31.12(a) (xiv) Cat-B	4	
	Four pole change over switch 100 amp. 415 Volts, HSR-31.12(a) (xxv) Cat-B	2	
2	Supply and erection of miniature circuit breaker / isolator 240 /415 V in the existing distribution board including making necessary connections. HSR- 31.17		
	SP MCB of 9 KA breaking capacity 6 amp. to 32 amp. HSR-31.17a) (ii)	20	
	TPN MCB of 9 KA breaking capacity 40 amp. to 63 amp. HSR- 31.17(a) (iii)	1	
3	Supply and erection of Fittings and Accessories. HSR-31.18		
	Switch 5 amp. On existing sheet. HSR- 31.18	4	
	Wall socket 5 amp. On existing sheet. HSR- 31.18	4	
4	Bakelite sheet including fixing with brass screws and washers.		
	3 mm thick .	500	
	15 amp. Switch on existing sheet. HSR -31.18 (xiv)	2	
5	Earthing HSR- 31.22		
i	Earthing with GI earth pipe 4.5 m long and 40 mm dia with masonry enclosure on the top etc. as required .	5	
ii	Extra for using salt and charcoal/ coke for pipe earth electrode as required.	5	
iii	Pdg. and laying earth connections from earth electrode with 4.00 mm dia G.I. wire in 15 mm dia G.I. pipe from earth electrode as required .	90	
6	Supply and erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required. HSR- 31.21 (xxi)		
	Heavy guage welded conduit pipe 20 mm dia 1.60 mm thickness flushed.	50	

7	Supply and erection of metal clad bus bar chamber made from 1.6 mm thick M.S.sheet fixed with rag bolts on wall or on existing pedestal/ angle iron frame including bonding to earth, detachable top and bottom painting and necessary connections etc.(Copper bars duly tinned). HSR - 31.31		
	100 amp. 4 bars of 55 cm each (cross section 25 mm x 3 mm) chamber overall size 60 cm x 45 cm x 18 cm . HSR-31.31 (a) (ii)	2	
8	Wiring only in 1.5 Sqmm PVC insulated copper conductor cable in existing conduit pipe and MS boxes covered with 5mm thick bakelite sheet including cost of switch, wall socket, ceiling rose etc. HSR- 31.38 (vii) C		
	3 pin 5 amp. plug point including earthing the 3rd. pin etc. HSR-31.38(vii)C		
	Long point.	1	
9	Supply and erection of PVC unsheathed copper conductor cable single core 1100 volts grade in pipe of suitable size excluding cost and erection of pipe . HSR-31.40 (iii)		
	Size 4 sqmm (7/0.85) HSR-31.40 (iii)	50	
10	Supply and erection of Double door sheet steel enclosure distribution boards suitable for MCB's & ELCB's recessed in wall including bonding to earth complete with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-charge of the work. HSR- 31.41		
	4-way , SP&N (Horizontal) HSR-31.41 (i)	1	
	4-way , TP&N (Horizontal) (8+12) HSR- 31.41 (v)	1	
11	Supply and erection of MS Saddle and clamps duly galvanised , on wall / RCC parapit for fixing underground cable at a distance of 0.60 metre center to center fixed by means of rawl plug including the cost of all labour and material required to complete the job in all respect and upto entire satisfaction of the Engineer-in-charge of work. HSR-31.48	100	
1	3 phase D.O.L starter 15 Amp. NS item	5	
2	3 phase Contactor 40 Amp. NS item	2	
3	LED Bulb 17Watt. Philips NS item	12	
4	Capacitor 200-250MFD Anurag Gold 250V Surge NS item	1	
5	Wooden board 8" X 10" NS item	1	

J.E (E)

SDE (E)

TECHNICAL CONDITION FOR E.I. WORK

1. The recovery of the pipe already laid will be made on measurement rate basis or point rate basis or on actual expenditure basis whichever is on high side. In case of Departmental work, 10% supervision charges shall also be added.
2. Conduit pipe where already laid for wiring purpose will be delivered to the contractor in absolutely clean condition with round inspection boxes duly painted, covered and whole system tested. After the conduit system is handed over to the contractor to whom the work is allotted, he will be responsible for its upkeep.
3. During execution of work, if the contractor does not lay pipe and its accessories in the slab within time prescribed by the Engineer-in-Chief of the work, the Deptt. can then lay the said pipe-departmentally at contractors risk and cost without operating the clause 2 and 3 of the contract agreement.
4. Separate conduit pipe for power plug with independent circuit wires shall be laid.
5. Multi plugs shall be provided in all the buildings.
6. C-Series MCB will be provided for air conditioner wiring and no extra payment will be made and only one make of MCB's will be used in whole work.
7. Vertical type of MCB distribution boards will be provided wherever required as per design.
8. The contractor is also allowed to use MCBs duly ISI marked of more than 9 KA breaking capacity.
9. For HSR item no.31.12 (D), 31.15 the make of enclosure will be same as that of MCB of standard size having thickness 1.6 mm and 1.2 mm in case of TPN and SPN enclosure respectively.
10. All MCCBs upto 220 Amp will have 25 KA minimum breaking capacity instead of 10KA and above 220 amp. MCCBs will have 50 KA minimum breaking capacity instead of 35KA. All MCCBs will have magnetic thermal release and rotary operating mechanism duly interlocked and only one make of MCCBs shall be used in whole work.
11. The thickness of M.S. Sheet of switch boxes should be of 16 gauges .
12. The fan boxes sheet should be 16 gauge and anodized .
13. The contractor shall install the material from the list of approved electrical material appended in the NIT. Material not covered in the list will be used as per HSR-1988, and PWD Specifications-1990.
14. The contractor must ensure preparation and submission of pipe diagram, wiring diagram, key diagram etc. as required vide PWD Specifications Chapter No. 31.6.
15. Where ISI recommends multi stranded conductor of cable, cable with multi- stranded conductor only will be used on work.
16. Rates should be quoted by the tenderer both in word and in figure, in case of any difference between the two; the lowest of the same shall be considered as final rate.

17. The rates of bus bar include the cost of all Labour and material required to complete the job in all respect including thimbles etc. of the same material as that of bars. The support for bars will be made of porcelain.
18. The tenderer must either be 'A' Class Electrical contractor enlisted with C.P.W.D., M.E.S., Haryana PWD B&R or he must sublet the electrical work to a sub contractor possessing the above qualification. The Tenderer/Bidder for building/road/Bridge work will intimate name of agency from whom the firm will get E.I./Street Light work done. The electrical contractor should be enlisted in appropriate category with C.P.W.D., M.E.S., Haryana PWD B&R for electrical works. The above details are to be submitted along with the technical bid.
19. A Sub contract agreement will be made with Executive Engineer for Electrical part of the contract, in which all the terms and conditions of the main contract will become a part, the Executive Engineer will operate this sub agreement with the Electrical contractor nominated by the bidder.
20. This sub agreement will be treated as in-dependent contract for all purposes such as execution, time extension, enhancement, approval, rate analysis, payment, penalties and deductions etc. as per the conditions of DNIT / Main agreement.
21. Payment, deductions, recoveries for electrical work etc. will be done to/from the electrical contractor (specified by Bidder) by XEN BPSMV, Khanpur Kalan.

Alongwith the technical bid for the work, the bidder will submit the following information:-

- a) Name of electrical contractor/firm.
 - b) Detail of enlistment of electrical contractor with Haryana PWD B&R (attach copy of enlistment).
 - c) Affidavit of consent of electrical contractor to carry out the work under sub contract/sub agreement (attach copy) as per Annexure AF-I.
 - d) Affidavit of consent of the bidder to Executive Engineer Electrical to make payment/deduction etc. for electrical work to the electrical sub contractor. (attach copy) as per Annexure AF-II.
22. The contractor must employ the following staff while carrying out work:-
- i) When any work costing
More than Rs.50000/- to Diploma holder JE
Rs. 2 Lacs is under execution
 - ii) From 2 Lacs up to 5 lacs Diploma holder JE with 5 year experience
 - iii) Above 5 lacs Degree holder Engineer
23. The Electrical part of bill of quantity of the agreement will be got executed by and under the supervision of Executive Engineer, Elect. Divn. PWD B&R Br., (concerned division) and all the running payment of electrical works will be made by him. However copy of final bill will be sent to Executive Engineer (Civil) to include in the final bill. The over all technical supervision of electrical work shall be of Vice-Chancellor, BPSMV, Khanpur Kalan Sonipat and any technical instructions given by him will have to be adhered to strictly by the contractor.

24. All the street light fittings, bulbs and cables will be got inspected by the contractor at the works/Godown of the manufacturer before installation at site. A certificate will also be produced/ submitted by the contractor about the authenticity of purchase of above material from the authorized source.
25. Only HYLAM make ISI make (I.S.2036-1995) white Bakelite sheet will be used on the work .
26. The rates mentioned in the DNIT are for complete item including cost of all accessories, material, labour, tool plants, water electricity bills etc. Unless otherwise specified.
27. The minimum size of MS control switch boards for controlling one fan point and one light point shall not be less than 20cm x 25cm x 10cm.
28. The MS box for telephone, Intercom and Bell push shall be installed of size 100mm x 100mm x 60mm in place of 75mm x 75mm x 60mm.
29. The tender having ambiguous/confusing rates and conditions shall be summarily rejected.
30. The quantity/amount of NIT can be increased or decreased.
31. No Road cut charges shall be paid.
32. The contractor shall install two number check nuts and one No. PVC threaded Bush for each pipe in MS inspection boxes. The contractor shall also install PVC flanged bush in the junction boxes for each pipe.
33. "Labour cess and service tax as applicable from time to time will be deducted from the Gross amount of the bill" of the contractor.
34. The contractor should quote the rates keeping in view above Conditions/specifications.
35. If the agency does not quote/fill the rate of any item then it will be considered as nil and the same item will be executed by the agency free of cost and it will be contingent to the work. The agency will have to given an undertaking on account of above otherwise earnest money will be forfeited. In addition to this Engineer-in-charge of work may also black list the agency.

L.T. panel shall be as per following specifications: -

General: - This distribution board shall be fabricated out of 14-gauge sheet steel cubical type suitable for floor mounting end or dead front type. Suitable rubber gaskets shall be provided between all opening and joint to make the distribution board dust, moisture and vermin proof. The distribution board shall be suitable for indoor location and shall consist of the bus bar chambers both vertically and horizontally and the cable entry for the distribution shall be from bottom. Distribution board will consist of a number of vertical sections. Each vertical section shall be divided in to a few standard sizes of the compartment. The equipment for the various incoming and out going feeders shall be housed in a separate compartment. Each compartment door of distribution board shall be provided with inter locking arrangement with the handle of the respective switches/ MCCB such that the door can not be opened unless the switches are in the off position. Vertical cable entry shall be provided on each section of the distribution board for cabling purpose. Continues bus bar of copper shall be provided at the bottom along the entire length, cable compartment with concealed hinged front door will be fully segregated from the main horizontal/ vertical bus bar of equipment module. The distribution board shall be painted in powder quoted shade after necessary primary treatment. The distribution board shall be suitable for operation on 415 volts 3 phase 50 cycles per second A.C. supply system.

Bus Bar: - The high conductivity copper bus bar provided in the chambers shall be duly tinned and insulated and rigidly supported at the short intervals by strong 12mm thick non inflammable hylam partitions. The partitions shall be so designed so as to with stand the stress, which can normally occur on short circuits. Further, The bus bars and links shall be of flat copper dully tinned so that the contract between bus bars shall be easily accessible from front for any connections and inspection etc.

The bus bars chamber should have of strong metal having no possibility of any dents, due to accidents and damage, which could result into electrical fault. Bus bars chamber shall be of unit type construction and have standard flanges opening at the top and bottom on both side so that any modification, extension can be easily effected at the site.

Test Certificate: - A test certificate from the manufacturer shall be handed over to the department before installation of the panel specifying that the panel conform to relevant ISS/ PWD specifications.

Wiring Diagram:- After completion of the work complete diagram showing connections to the various equipment on the board is to be prepared by the contractor and to be submitted to the department along with final bill of the work. In case contractor fails to supply the diagram amount @ 0.5% of the work executed shall be deducted from the contractor's final bill.

Connection: - Inter connections from bus bar chamber to the different molded case circuit breaker / air circuit breaker should be through solid copper bars of the required capacity duly tinned and insulated for which no extra payment will be made.

LIST OF APPROVED MAKES OF ELECTRICAL ACCESSORIES / ITEMS AS ON /W.E.F.

DATED: 29/07/2015

Sr. No.	Name of Items	Name of the Brand
1	<p>(A) Electrical accessories, Button Holder, Pendant Holder, Ceiling Rose, Bell push, Switches and sockets, Call bell/buzzer etc. (I.S.I. Marked).</p> <p>(B) Modular Accessories.</p>	<p>(A) Anchor(Penta), SSK (Top Line), Precision,</p> <p>(B) Anchor(Wood), ABB (Classiq), Legrand (Mosaic), North West, Precision, Great White (Fiana), SSK (ZEN, Elegance, Heritage series), Indo Asian, C&S Electric (DIVINO), Polycab (SELENE)</p>
2	Bakelite Sheet (Only White in colour)	Hylem, Greenlame (ISI marked)
3	MS Conduit Pipes (I.S.I. Marked)	BEC, NIC, Steel Krafts, M.Kay
4	PVC Wires Copper Conductor (I.S.I. Marked)	Grandlay, Havell's, Plaza, Ecko, Polycab. Delton, R.R. Kabel, HPL, DIATRON, Great white. Bonton
5	LT-PVC/ XLPE Underground cables with Aluminum Conductor (I.S.I. Marked)	<p>A) All sizes:- CCI, Grandlay, Havell's, Plaza, Polycab, Delton, DIATRON, Suraj, KEI, RR Kabel, CIRTINA</p> <p>B) Upto 25 sq. mm 2 to 4 core :- Paragon, Pymen, Kent, Indane, Incab, Gemscab</p>
6	<p>(i) HT-XLPE cables with aluminum Conductor (I.S.I. Marked)</p> <p>(ii) Aerial Bunch cable/ACSR</p>	<p>CCI, Gloster, Havell's, Incab, Plaza, DIATRON. Gemscab, Suraj, KEI,</p> <p>(As approved by UHBVNL/DHBVNL)</p>
7	PVC Conduit pipe with accessories and 6 Kg. Pressure PVC pipe and its accessories	AKG, Diplast, Kalinga, Polypack, PKS, Ravindra, APEX,
8	GI Pipe & M.S. Pipe (medium) (I.S.I. Marked)	Jindal, Parkash, Ravindra, Tata.
9	I.C. Switches/SFU/FSU/Changeover switch	<p>Category-A (All sizes):- GE, L&T, Siemens,</p> <p>Category-B (All sizes): Havell's, SSK, C&S, Standard, HPL. Indo Asian, Asco</p>

10	MCBs & Enclosure, ELCB/RCCB.	A) GE, Havell's, L&T, Legrand, Standard, Siemens, C&S, ABB, Schneider Electric, HPL, Indo Asian, AXIOM, Asco, AECO MEFA, BCH.(Makes of enclosures shall be as per MCBs) , Adhunik Prewired - DB's and enclosure with MCB/ MCCB/ VCCB
11	MCCBs & Enclosures	GE, Havell's, L&T, Siemens, Schneider Electric, ABB, C&S, Standard, Legrand, BCH, HPL.Indo Asian
12	POLES i) M.S. Pole:- ii) G.I. Pole:- iii) High Mast :- iv) Decorative Poles:-	- Manufactured by any firm as per I.S.I. Marked sectional lengths strictly according to IS specifications. -Philips, Bajaj, Surya Roshni, Paruthi Engineers (PE), Volmont, GE India, Crompton Greaves, Skipper, Vipin S.T.poles , UTKARSH - Philips, Bajaj, Surya Roshni, Volmont, Paruthi Engineer (PE), Crompton Greaves, Skipper, Vipin S.T.poles, UTKARSH Twinkle, Mayfair (Sumaglli)
13	PVC Casing & Trunking	AKG, MK
14	Ceiling Fans (Double ball Bearings)	Bajaj, Crompton, Khaitan, Orient, Usha.
15	Indoor light fittings	A.) LED:- Bajaj, Crompton, GE, Philips, Wipro, Mayfair, Surya Roshni, HPL, Halonix, Havell's, Ecolite, C&S Electric, Polycab, B) CFL:- Bajaj, Crompton, GE, Philips, Wipro Halonix, Twinkle, Surya Roshni, HPL, Havells ,Ecolite. C&S Electric C) T-5:- Bajaj, Crompton, GE, Philips, Wipro Halonix, Twinkle, Mayfair, Surya Roshni, HPL, Havells, Ecolite, C&S Electric, Polycab,
16	Outdoor Street Light	A) LED:- Bajaj, Crompton, GE, Philips, Wipro, Mayfair, Surya Roshni, HPL, Halonix, Havell's , Ecolite . C&S Electric, Polycab, B) CFL:- Bajaj, Crompton, GE, Philips, Wipro, Halonix, Ecolite, Twinkle, Surya Roshni, HPL , C&S Electric C) T-5:- Bajaj, Crompton, GE, Philips, Wipro, Halonix, Twinkle, Mayfair, Surya Roshni, Ecolite, HPL . C&S Electric
17	Flood Light Fittings, Sodium/ M.H./LED	Bajaj, Crompton, GE, Philips, Twinkle, HPL, Havell's, Halonix
18	L.T. Panel/ Load Bank/APFC/Bus Bar Trunking (OEM or their TTA)	Schneider, C&S, ABB, Siemens, Standard, Havell's, BCH, Nitya Electrocontrol (NEC), L&T, AVON, Adhunik, Indo Asian, Dhillon Fabricators and

	(Applicable for Electrical works more than Rs. 50.00 lacs and all sub stations works of 500 KVA and above)	Engineers,
19	ACBs	GE, L&T, Siemens, Schneider Electric, ABB, C&S, Havell's, HPL
20	OCBs and VCBs	Alstom, Crompton, Siemens.
21	TRANSFORMERS	Alstom, Bharat Bijlee, Kirloskar, Crompton, NGEF, Voltamp, ABB, Siemens, Schneider
22	GENERATORS :	Engines: Cummins, Greaves Cotton, Kirloskar, Ruston, Eicher (upto 125 KVA) Alternators : Crompton, Jyoti, Kirloskar, NGEF, Stamford.
23	CSSU	Schneider Electric, ABB, Siemens, C&S

Note:- The makes as approved by committee are listed in total as above:-

The Executive Engineers should ensure that at least three makes & models having **comparable specifications and net market rates** should be purposed in the nomenclature of items taken in Estimate/DNITs keeping in view the importance of building.

Annexure AF-1

AFFIDAVIT (from Electrical Contractor)

I _____ s/o _____ R/o _____ do hereby solemnly declare undertake and affirm as under:-

1. That I am enlisted as class ____ contractor in PWD B&R Haryana vide letter No. _____ dated _____ of _____ in _____ category.
2. That I undertake to execute the electrical part of the work _____ as a independent contractor.
3. I undertake that I will be responsible for quality, specification, timely completion and labour liabilities etc. as per terms & conditions of DNIT / Agreement and PWD specifications.
4. I undertake that all the rates terms, condition, specifications of the agreement for this work for execution, payment, deduction and penalties are acceptable to me as quoted / accepted by M/s _____ in their tender for the work _____.
5. I undertake that all material, labour and other requirement for the work under this agreement for electrical part will be my responsibility.

Date:

Place:

DEPONENT

VERIFICATION:

Verified at _____ that the contents of above said affidavit are true and correct to the best of my knowledge belief and nothing has been cancelled there from.

Date:

Place:

DEPONENT