

# TENDER DOCUMENT

## FOR

Construction of room for HT Panel at Shiksha Sadan building, 17 Rouse Avenue,  
New Delhi-110002.

(SH: S/F LT , APFC panels and laying of cables)..

Name of the Agency:

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Time and Date of Opening: 09.02.2015 at 03:30 PM

**NIT No- 01/CBSE/Engg.(E)/37 /2014-15**

**Sealed item rate tenders are invited by the Joint Secretary (A & L) CENTRAL BOARD OF SECONDARY EDUCATION from the eligible contractor having valid registration in appropriate class & category in CPWD/MES / Deptt. of Telecommunications / Railways / NDMC / Central PSU & Delhi PWD for the following work:**

**Name of work: Construction of room for HT Panel at Shiksha Sadan building, 17 Rouse Avenue, New Delhi-110002 (SH: S/F LT , APFC panels and laying of cables).**

Estimated Cost: Rs. 1738363.00

Last Date of receipt of application for issue of tender: 07.02.2015 up to 4:00 P.M.

Last Date of sale of tender: 07.02.2015 up to 12.30 P.M.

Last Date of receipt of Tender:- 08.02.2015 up to 3.00 P.M and will be opened on the same day at 3.30 P.M.

Cost of tender: Rs. 500.00 (Non-Refundable and to be submitted along with application of issue of tender)

E.M.D. :- Rs. 43500/-

P.G. :- 5% of Tendered value before award of work

Security Deposit :- 5% of Tendered Amount (After adjusting EMD)

Time allowed :- 2 Months

CBSE reserve the right to reject any or all the tenders or accept them in part without assigning any reason.

Earnest Money **Rs. 43500/-** should be deposited along with tender document in the shape of bankers cheque/Bank Draft /FDR of scheduled Bank drawn in favour of Secretary CBSE Delhi

**The tender and the earnest money shall be placed in separate sealed envelopes, each marked, "Tender" and "Earnest Money" respectively. Both the envelopes shall be submitted together in another sealed envelope with the name of work and due date of opening written on envelope. The envelopes marked, "Tender" of only those tenderers shall be opened, whose earnest money, placed in the other envelope, is found to be in order.**

Tenders duly completed should be dropped in the tender-box placed at Reception Counter, CBSE, HQ, "Shiksha Kendra", 2, Community Centre, Preet Vihar, Delhi –110092,

For eligibility criteria and other details please visit CBSE website at [www.CBSE.NIC.IN](http://www.CBSE.NIC.IN) .

**Eligibility for Tendering:-**

The application should be given for the issue of tender document along with attested photocopy of the Registration, PAN No. & TIN No., electrical contractor license , current Return File in respect of IT, SERVICE TAX & TIN and Contractor should have executed minimum two works costing Rs. 11.50 Lacs each or one work costing Rs. 15.00Lacs during last three years..

**Note:- Downloaded tenders are not acceptable, interested bidders has to purchase tender document from the Engineering Department CBSE PATPARGANJ upto specified date and time as mentioned above.**

**Joint Secretary (A & L)  
CENTRAL BOARD OF SECONDARY EDUCATION**

**Name of Work:- Construction of room for HT Panel at Shiksha Sadan building, 17 Rouse Avenue, New Delhi-110002. (SH: S/F LT , APFC panels and laying of cables).**

Sl.	Description of item	Qty.	Rate	Unit	Amount
1	<p>S.I.T.C. of cubical type LT panel, totally enclosed, suitable for 415 V 3 phase 50 Hz A.C. supply system having front surface area of 1.63 Sq. M (Approx) fabricated in compartmentalized design made out from CRCA sheet steel of 2 mm thick for frame work and covers, 3 mm thick for gland plates, having 600A TPN Aluminium alloy bus bar of high conductivity, bus bar supports, entire panel shall have a common G.I. earth bar of size 25 mm X 5 mm at the rear with 2 Nos. earth stud, solid connections from main bus bar to switch gear with required size of aluminium bus bar, i/c sign writing, painting and control wiring with suitable size PVC insulated copper conductor single core cable, with all accessories and suitable size of angle iron frame including providing and installation of the following accessories:-</p> <p><b>Incoming</b> – 4 pole 50KA, MCCB - 01No  TRR 320-400A L &amp; T DN3-400N (Cat No. CM94103OOR10G) or equivalent EE, Siemens make.</p> <p><b>Outgoing</b> - 1)3 pole 36KA MCCB -04No  TRR 125-160A L &amp; T DN2 -250D (Cat No.CM92008OOM10G) or equivalent EE, Siemens make.</p> <p>2) 3 pole 36KA MCCB -04Nos  TRR 50-63A L &amp; T DNO-100D  (Cat No.CM97893OOH2OG) or equivalent EE, Siemens make.</p> <p>3) Digital type Ammeter 0-400A  (L&amp;T/AE) - 01No</p> <p>4) Digital type Voltmeter 0-450A  (L&amp;T/AE) - 01No</p> <p>5) LED indicator set (L &amp; T, AE)-01Set with MCBs</p> <p>6) Phase sequence meter -1Nos AE/L&amp;T  <b>(Non essential Panel)</b></p>	1		Each	

2	<p>S.I.T.C. of cubical type LT panel, totally enclosed, suitable for 415 V 3 phase 50 Hz A.C. supply system having front surface area of 1.28 Sq. M (Approx) fabricated in compartmentalized design made out from CRCA sheet steel of 2 mm thick for frame work and covers, 3 mm thick for gland plates, having 400A TPN Aluminium alloy bus bar of high conductivity, bus bar supports, entire panel shall have a common G.I. earth bar of size 25 mm X 5 mm at the rear with 2 Nos. earth stud, solid connections from main bus bar to switch gear with required size of aluminium bus bar, i/c sign writing, painting and control wiring with suitable size PVC insulated copper conductor single core cable, with all accessories and suitable size of angle iron frame including providing and installation of the following accessories:-</p> <p><b>Incoming</b> –1)4 pole 36KA MCCB - 02Nos TRR (125-160A)  L&amp; T DN2-250D (Cat No.CM92108OOM1OG) or equivalent EE, Siemens make.  2)160A 4 pole on load change over switch - 01No L&amp;T Cat No.CO21600OOOO or EE/Siemens make.</p> <p><b>Outgoing</b> - 1) 3 pole 36KA MCCB -06Nos  TRR 63-80A L&amp; T DN0-100D (Cat No.CM9789300J2OG) or equivalent EE, Siemens make.  2) Digital type Ammeter (0-125A) - 01No. (L&amp;T/AE)  3) Digital type Voltmeter(0-450V)01No (L&amp;T/AE) - 01No  4) LED indicator set (L &amp; T, AE)-02Set with MCBs  5) Frequency Meter Digital Type-1No L&amp;T/AE Make  <b>(Essential Panel)</b></p>	1		Each	
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3	<p>S.I.T.C. of cubical type LT panel, totally enclosed, suitable for 415 V 3 phase 50 Hz A.C. supply system having front surface area of 0.78 Sq. M (Approx) fabricated in compartmentalized design made out from CRCA sheet steel of 2 mm thick for frame work and covers, 3 mm thick for gland plates, having 400A TPN Aluminium alloy bus bar of high conductivity, bus bar supports, entire panel shall have a common G.I. earth bar of size 25 mm X 5 mm at the rear with 2 Nos. earth stud, solid connections from main bus bar to switch gear with required size of aluminium bus bar, i/c sign writing, painting and control wiring with suitable size PVC insulated copper conductor single core cable, with all accessories and suitable size of angle iron frame including providing and installation of the following accessories:-</p> <p><b>Incoming</b> – 4pole 36 KA, MCCB - 01No  TRR 125A-160A  L&amp; T DN2- 250 D.(Cat No.CM92108OOM1OG) or equivalent EE, Siemens make.</p> <p><b>Outgoing</b> -1) 3 pole 30KA,MCCB -08Nos  TRR 63-80A L &amp; T DU100H (Cat No.CM97894OOJ2) or equivalent EE, Siemens make.</p> <p>2) Digital type Voltmeter(0-450V)-01No  (L&amp;T/AE)</p> <p>3) Digital type Ammeter (0-100A) - 01No  (L&amp;T/AE)</p> <p>4) LED indicator set (L &amp; T, AE)-01Set  <b>(LT Panel for office block)</b></p>	1		Each	
4	S/L of one number PVC insulated PVC sheathed/XLPE Al. conductor armoured UG cable of 1.1 KV grade of size 3.5 x 240 sq mm and laying the same as under.				
a)	Direct in ground i/c excavation sand cushioning protective covering & refilling the trench etc as required.	45		Mtr	
b)	In the existing masonry open duct as required.	10		Mtr	
5	Supplying of one number PVC insulated PVC sheathed/XLPE Al. conductor armoured UG cable of 1.1 KV grade of size 3.5 x 120 sq mm and laying the same as under.				
a)	Laying of additional cable direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.	50		Mtr	
b)	In the existing RCC/hume/stoneware/ G.I. pipe.	10		Mtr	
c)	In the existing masonry open duct.	9		Mtr	

6	Supplying of one number PVC insulated PVC sheathed/XLPE Al. conductor armoured UG cable of 1.1 KV grade of size 3.5 x 70 sq mm and laying the same as under.				
a)	Direct in ground i/c excavation, sand cushioning protective covering & refilling the trench etc as required.	50		Mtr	
b)	In the existing RCC/hume/stoneware/ G.I. pipe.	10		Mtr	
c)	In the existing masonry open duct.	9		Mtr	
7	Supplying of one number PVC insulated PVC sheathed/XLPE Al. conductor armoured UG cable of 1.1 KV grade of size 3.5 x 50 sq mm and laying the same as under.				
a)	Laying of additional cable direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.	98		Mtr	
b)	In the existing RCC/hume/stoneware/ G.I. pipe.	6		Mtr	
c)	In the existing masonry open duct.	9		Mtr	
8	Supplying of one number PVC insulated PVC sheathed/XLPE Al. conductor armoured UG cable of 1.1 KV grade of size 3.5 x 35 sq mm and laying the same as under.				
a)	Laying of additional cable direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.	40		Mtr	
b)	In the existing RCC/hume/stoneware/ G.I. pipe.	3		Mtr	
c)	In the existing masonry open duct.	3		Mtr	
d)	On surface etc as required .	15		Mtr	
9	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	2		Set	
10	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	15		Mtr	
11	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	4		Mtr	

12	Supplying and making indoor end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
a)	3½ X 35 sq. mm (32mm)	2		Each	
b)	3½ X 50 sq. mm (35mm)	2		Each	
c)	3½ X 70 sq. mm (38mm)	4		Each	
d)	3½ X 120 sq. mm (45mm)	2		Each	
e)	3½ X 240 sq. mm (62mm)	2		Each	
13	Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision of 100 amps TP 16 KA MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required)				
a)	8 Way TP (For essential supply in office block)	1		Each	
14	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Triple pole	8		Each	
15	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required				
a)	100 Amp, 16 KA	1		Each	
16	Dismantling of existing DB / metal clad switches/ change over switch from ground floor electrical niche to fix the new LT panel, DB etc disconnection all the incoming /outgoing supply etc as required.	1		Job	

17	<p>Fabrication erection, testing and commissioning of cubicle type, dust and vermin proof, floor mounted, front operated MV panel board made out of 1.6 mm thick CRCA sheet fully compartmentalized complete with hinged and earthed front doors with name plate, danger notice board, heavy duty rubber gaskets, removable gland plates made out of 3mm thick sheet steel. All opening parts of the panel shall be sealable. Provision for emergency push button shall be given as per statutory requirement</p> <p><b>INCOMING</b></p> <p>a. 1 No. of 250A TPN isolator SWITCH</p> <p>b. 250A, 415V best conductivity A1 TPN bus bar with SMC supports, heat shrinkable sleeves etc. complete as</p> <p><b>Metering Instruments &amp; Indications</b></p> <p>a. Digital Ammeters with range 0-300A with CTs and with three line display and with accuracy CL 0.50 – 1 Nos.</p> <p>b. CTs – ratio 300/5A CL 1 15VA – 3 Nos.</p> <p>c. Digital Voltmeter 0-500 V (96 x 96mm) with three line display – 1 No.</p> <p>d. RYB phase indicating lamps (lamps shall be of LED) with control fuses – 1 set (22.50mm cutout dimension)</p> <p>e. 8 stage APFC relay, auto manual selector switch, auxiliary contactors, on indicating lamps, start PB, stop PB, cooling fan, control fuses and neutral link</p> <p><b>OUTGOING</b></p> <p>a. 100A TPN SFU with 63A HRC + 25KVAR APP Capacitor 14 480V + Capacitor duty contactor for 25KVAR + 7% detuned reactor for 20KVAR 440V– 2 set</p> <p>b. 63A TPN SFU with 50A HRC + 20KVAR APP Capacitor 480V + Capacitor duty contactor for 20KVAR + 7% detuned reactor for 15KVAR 440V– 2 set</p> <p>c. 63A TPN SFU with 32A HRC + 15KVAR APP Capacitor 480V + Capacitor duty contactor for 15KVAR + 7% detuned reactor for 10KVAR 440V – 1 set</p> <p>d. 32A TPN SFU with 20A HRC + 10KVAR APP Capacitor 480V + Capacitor duty contactor for 10KVAR + 7% detuned reactor for 5KVAR 440V – 2 set</p>	1		Each	
Total					
<b>Total in words:-</b>					



## **CENTRAL BOARD OF SECONDARY EDUCATION**

"SHIKSHA KENDRA", 2, COMMUNITY CENTRE  
PREET VIHAR, DELHI-1100092

### INSTRUCTIONS TO THE TENDERERS

1. Incomplete and conditional tenders shall be summarily rejected.
2. Rates are to be quoted in words and figures without any cutting/overwriting.
3. The agency should quote the rates after visiting the site and proper assessment of work.
4. Prescribed enclosures are to be attached with the Technical Bid. Financial Bids of Only qualified tenderers in technical bid shall only be opened.
5. Technical Bids and Price-Bid should be signed by the same authorized signatory. The Technical-Bids shall be opened on 08-01-2015 at 3.30 p.m. in the presence of the tenderers, who may like to be present.
6. Any additional information required by CBSE in respect of the work experience shall be submitted by the tenderers within three days, failing which the offer shall not be entertained.
7. Technical Bid received without EMD of Rs.43,500/- in the form of a Demand draft / Banker's Cheque/FDR shall be summarily rejected.

## **Terms and Conditions**

1. The work should be executed as per CPWD specifications and as per directions of Engineer-In-Charge.
2. The time of Completion of work would be 60 days.
3. Extension of completion time would be granted only if the Agency applies for with details of Hindrance.
4. The Agency should be submit a Performance Guarantee of 5% of tendered value in addition to EMD before start of work.
5. If value, of work exceeds the tendered value extension of time would be granted proportionately.
6. In case of delay, a penalty of 1% per week should be deducted.  
Subjected to a max of 5% of the tender value.
7. Computerised Bill should be submitted by the Contractor for process of payment.
8. All T & P shall be arranged by the Contractor.
9. Hindrance Register shall be maintained by Engineer incharge at site.
10. Instructions given in Site Order Book would be followed acknowledged by the Contractor immediately.
11. One running payments would be considered after 65% completion of the work and subsequently thereafter final bill would be paid within 30 days after submission of Bill by the Contractor.
12. 10% of the bill shall be deducted as defect liability and shall be released after six months.
13. 25% deviation in quantities would be permitted. For Extra items the non-scheduled items would be paid as per market rates and for DSR-2014 items as per percentage quoted by the Agency. The Extra items should be executed with prior approval of Engineer-in-Charge.
14. The materials to be used must be got approved from the Engineer-in-charge before installation/use.
15. Agreement shall be executed by the agency at its own cost.
16. In case of no/slow progress, the Board shall have the right to rescind the contract & get the work executed at the risk & cost of the defaulting agency.
17. In case of any dispute, the Arbitrator shall be appointed by the Chairman and his decision shall be binding.
18. No escalation in rates would be given.
19. Rates should be including all taxes.
20. The Contractor shall provide assistance, instruments, material, labour and any other arrangement normally required for testing, checking of materials and workmanship as stipulated in the specifications and by statutory authority at his own cost. CBSE has the right to appoint the testing authorities. The Contract shall pay for the cost of test samples, its packing, transportation including testing fees.
21. The Contractor shall comply with all the provisions of the Minimum Wages Act – 1948 and other labour laws that may be in force.
22. If the Contractor commits breach of any of the terms and conditions CBSE shall have power to resign the Contracts.
23. All the materials obtained during dismantling, excavation, of site would be Board's property.
24. No payment shall be made the Contractor for any damage due

- to any natural cause during the execution of works
25. All material used shall be as per specification and ISI marked where applicable.
  26. The Contractor shall employ the Qualified Diploma holder with 5 years experience to supervise a work.
  27. The Contractor shall be responsible for the Safety of workmen.

(Signature of the agency)  
With complete address and seal  
Add. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Tel.NO.: \_\_\_\_\_

Mobile No.: \_\_\_\_\_