

**CSIR- NATIONAL PHYSICAL LABORATORY**  
**(Council of Scientific and Industrial Research)**  
DR. K.S. KRISHNAN MARG,  
NEW DELHI-110 012

**NOTICE INVITING TENDER 6 / 2013 (Works)**

On behalf of Director, NPL, sealed item rate tenders are invited from eligible contractors for the works detailed below:-

Sl. No.	Name of work	Tender Cost (Rs.)	Estimated Cost (Rs.)	Earnest Money (Rs.)	Completion time
1.	Extension of shed with roof treatment of TEC Building at NPL Campus ( Civil)	500/-	15,85,414/-	31,708/-	03 Months
2	Renovation of Room No-127,127-B,127-C and 128-B in main building at NPL Campus ( Civil and Electrical)	500/-	5,04,812/-	10,096/-	03 Months

Tenderers are required to deposit tender fee (non-refundable) and Earnest Money Deposit in the form of separate pay orders drawn in favour of Director NPL, New Delhi along with written request and copies of latest sales tax clearance certificate, PAN No., satisfactory completion certificate of the similar works. Interested Tenderer may purchase the tender document for the above works from CW&M Section (Room No 214), Main Building:-

- Sale of Tenders : 23.4.2013 to 8.05.2013  
(1000 Hrs to 1600 Hrs)
- Last Date for submission of tenders : 10.05.2013 upto 1430 Hrs.
- Verification of credentials of downloaded tenders : 10.05.2013 at 15.00 Hrs.
  
- Date and Time of opening of tenders : 10.05.2013 at 1530 Hrs

Detailed NIT & tender documents are available on our website [www.nplindia.org](http://www.nplindia.org) and can be downloaded.

**Controller of Administration**



**CSIR - NATIONAL PHYSICAL LABORATORY**  
(Council of Scientific and Industrial Research)  
DR. K.S. KRISHNAN MARG,  
NEW DELHI-110 012

NIT 6 / 2013 (Works)

**DETAILED NOTICE INVITING TENDER**

On behalf of Director, NPL, sealed item rate tenders are invited for the works detailed below from contractors of appropriate class of CPWD, Railways, MES, P&T Department, State PWD's, Central/State Govt./Semi Govt./PSU's and/or preferably from those who have successfully carried out two or one similar works amounting to 60% or 80% or above of the estimated cost respectively during last five years for CSIR or its Laboratories/Institutes. **(In case of composite work contractor will be required to submit a undertaking that the electrical work will be carried out through valid electrical license holder contractor only)** Separate tender document for the work can be purchased from the Office of Section Officer (Works), C W & M Section, Room No. 214, NPL Main Bldg., Dr. K S Krishnan Marg, New Delhi on payment of tender cost (non refundable) indicated against each work in the form of Pay Order drawn in favour of Director, NPL:-

Sl. No.	Name of work	Tender Cost (Rs.)	Estimated Cost (Rs.)	Earnest Money (Rs.)	Completion time
1.	Extension of shed with roof treatment of TEC Building at NPL Campus (Civil)	500/-	15,85,414/-	31,708/-	03 Months
2	Renovation of Room No-127,127-B,127-C and 128-B in main building at NPL Campus ( Civil and Electrical)	500/-	5,04,812/-	10,096/-	03 Months

Tenders will be issued on receipt of written requests accompanied by complete credentials such as copies of latest Sales Tax clearance certificate, PAN No., completion certificates, tender cost (non refundable) and requisite **EARNEST MONEY DEPOSIT** for the work and to the **complete satisfaction and on recommendation of the Engineer In-Charge concerned**. Tenders shall be issued on all working days from 23.4.2013 to 08.05.2013 between 1000 Hrs to 1600 Hrs.

Tender document for the above works can be downloaded from the website [www.nplindia.org](http://www.nplindia.org). In case of downloaded tenders, the tenderers are required to **submit the requisite documents as detailed above along with Tender Cost & EMD Pay orders in a separate cover** & filled up tender in another envelope. Priced tenders of such tenders will be opened after scrutiny of the documents and if found in order only.

Duly filled up tenders will be accepted upto **1430 Hrs on 10.05.2013** and the tenders received will be **opened on the same day at 1530 Hrs** in the presence of the tenderers or their authorized representatives, if any who may like to be present. Director, NPL reserves the right to reject any or all the tenders received or not to accept the lowest tender without assigning any reasons thereof.

- Sale of tenders : 23.4.2013 to 8.05.2013  
(1000 Hrs to 1600 Hrs.)
- Last date for submission of tenders : 10.05.2013 upto 1430 Hrs
- Verification of credentials of downloaded tenders : 10.05.2013 at 1500 Hrs.
- Date of opening of tenders : 10.05.2013 at 1530 Hrs.

**Controller of Administration**



**NATIONAL PHYSICAL LABORATORY  
DR. K.S. KRISHNAN MARG,  
NEW DELHI - 110 012**

**Name of work:-** Renovation of Room No-127,127-B,127-C and 128-B in main building at NPL Campus ( Civil & Electrical).

**CONTENTS**

<b>Sl. NO.</b>	<b>DESCRIPTION</b>	<b>NO. OF PAGES</b>
1	Contents	1
2	Notice Inviting Tenders	2-4
3	Schedule of quantities & summary	5- 13
4	Special Conditions, Additional Conditions and latest General Conditions of contract with amendments: can be seen in the Office Section Officer (Works), Room No.214.	

NOTE Tenderer should confirm that they have received all the above papers. All the documents issued are to be returned duly signed by the tenderer while submitting his offer.

**TENDER ISSUED TO:**  
M/s. / Sh.

TENDER FEE: vide P.O. No.

Dated \_\_\_\_\_ for Rs. 500/-

**Earnest Money Deposit:**

Pay order No. \_\_\_\_\_ dated \_\_\_\_\_

For Rs. \_\_\_\_\_

Issued by \_\_\_\_\_

**SIGNATURE OF THE OFFICER  
ISSUING Tenderer**



NATIONAL PHYSICAL LABORATORY  
DR. K.S. KRISHNAN MARG,  
NEW DELHI - 110 012

1. Sealed item rate tenders are hereby invited for the work "Renovation of Room No-127,127-B,127-C and 128-B in main building at NPL Campus ( Civil & Electrical)" from the contractors of appropriate class of CPWD, Railways, MES, Post & Telegraph Dept., State PWD'S, Central, State Govt./Semi Govt./PSU's or from those who have worked for CSIR or its Laboratories/Institutes and successfully carried out preferably two or one similar works amounting to 60% or 80% or above respectively of the estimated cost during last five years. **(In case of composite work contractor will be required to submit an undertaking that the electrical work would be carried out through valid electrical licence holder only)**. The tenderers are required to produce proof of fulfilling these conditions along with copy of latest Sales Tax Clearance Certificate, PAN No., **valid electrical** licence and **EARNEST MONEY DEPOSIT PAY ORDER** while making request for issue of tender document.
2. Estimated cost is **Rs. 5,04,812/-** (Rs. Five Lakh Four Thousand Eight Hundred and Twelve only) based on DSR 2012 and **Market Rates**.
3. Time for carrying out the work will be **03 Months** and the date of commencement shall be reckoned from the tenth day of issue of award letter.
4. Complete contract documents to be complied with by the tenderer whose tender may be accepted can be seen at the office of Section Officer (Works), NPL, Dr. K.S. Krishnan Marg, New Delhi - 110 012 on any working day.
5. Tenders should be on the specified form (non-transferable) which may be obtained from the Office of Section Officer (Works), Room No. 214, NPL Main Bldg. **from 1000 Hrs. to 1600 Hrs. between 23.04.2013 to 08.05.2013** on payment of **Rs. 500/-** (Rupees five hundred only) in the shape of Demand Draft/Pay order of a schedule Bank drawn in favour of Director, NPL (Non-refundable).
6. Tenders should be submitted in wax sealed cover subscribed with the name of the work, date of opening written on the envelope. Tenders will be received **upto 1430 Hrs on 10.05.2013** and will be **opened on the same day at 1530 Hrs** in the office of Section Officer (Works), CW&M Section Room No. 214. NPL, Dr. K. S. Krishnan Marg, New Delhi - 110 012. Tender should be dropped in the tender box before the closing date and time indicated above. In case these are sent by Post these should be sent Regd. Post / Speed Post addressed to Section Officer, CW&M Section Room No. 214, NPL Tenderers are to ensure that they post the tender well in advance so as to reach before the closing time and date indicated.
7. The Earnest Money amounting to **Rs. 10,096/-** (Rs. Ten Thousand and Ninety Six only) in the shape of pay order issued by a schedule Bank and drawn in favour of Director, NPL should accompany the request letter.
8. The Employer does not bind himself to accept the lowest or any tender and reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
9. Canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.

10. The tenderer shall not be permitted to tender for work in the concerned unit of CSIR in which a relative is posted in the grade between Controller of Administration and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him and who are relatives as mentioned above.

**NOTE:** A person shall be deemed to be a relative of another if, and only if, (a) they are members of a Hindu undivided family; or (b) they are husband & wife, or (c) the one is related to the other in the following manner: Father, Mother (including step mother), son (including step son), Son's son's son. Son's son's wife, son's daughter, son's daughter's son's wife, daughter's daughter, daughter's daughter's husband, Brother (including step brother), Brother's wife, Sister (including step sister), Sister's husband.

11. Tender submitted shall remain valid for 90 days from the date of opening for the purpose of acceptance and award of work, validity beyond 90 days from the date of opening shall be by mutual consent.

12. The tenderer shall quote rates both in figures and words failing which, tender is liable to be rejected. On check if there are differences between the rates quoted by the tenderer in words and in figures or in the amount worked out by him, the following procedure shall be followed:

i) When there is a difference between the rates in figures and in words, the rates which correspond to the amounts worked out by the tenderer shall be taken as correct.

ii) When the amount of an item is not worked out by the tenderer or it does not correspond with the rate written either in figures or in words, the rate quoted by the tenderer in words shall be taken as correct.

iii) When the rate quoted by the tenderer in figures and in words tallies but the amount is not worked out correctly the rate quoted by the tenderer shall be taken as correct and not the amount.

13. The tenderer should see drawings and in case of doubt obtain required particulars, which may in any way influence his tender from the Engineer as no claim whatsoever will be entertained for any alleged ignorance thereof.

14. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, installations of tools and plants (T&P) etc., conditions affecting accommodations and movement of labour etc. required for the satisfactory execution of the work contract. No claim whatsoever on such account shall be entertained by the Employer in any circumstances.

15. Earnest money will be forfeited if the contractor fails to commence the work as per letter of award.

16. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the printed form of tenders. Tenderers who are desirous to offer rebate the same should be brought out separately in the covering letter and submitted along with the tender.

17. Some of the provisions of General Conditions of contract are given below. Interpretation however shall be as given in the General Conditions of contract.

- a) DEFECT LIABILITY PERIOD: **Twelve months** from the date of completion as certified by the Employer.
- b) MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE: **Rs. 1,68,270/-**
- c) SECURITY DEPOSIT; A sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum along with the sum already deposited as earnest money will amount to security deposit of 5% of the tendered value of the work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as Performance Security within the period prescribed for commencement of work in the letter of award issued to him.
- d) COMPENSATION: Contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the cost of the whole work as shown in the agreement for every week that the work remains uncompleted or unfinished or due quantity of work remains incomplete after the proper dates. Compensation to be paid shall not exceed ten percent of the estimated cost of the work as shown in the agreement.
18. Clauses No. 28 of conditions of contract i.e., "ESCALATION" will not be applicable in this contract.
19. The materials would be brought to site in one/two lots and would be used at site only after approval of Engineer-in-Charge.
20. Store to issue: NIL  
(Contractor has to arrange Cement & Steel of the following brands:  
(i) JK/Vikram/Shree/Birla Uttam and approved brands:  
(ii) Steel-TMT/RANA/Rathi/Kamdhenu-TOR Steel or approved brand.
21. All tenderers should submit the proof of their registration with Sales Tax Department while tendering for works in N.C.T. of Delhi as per Works contract Act, 1999. Deduction of Sale Tax at the rate of 2% of payment will be made from their running / final bill on all works within N.C.T. of Delhi. It may be noted by the tenderers that the site of work is in restricted area and there will be curb on traffic movement in specified hours. This fact should be taken into account and no extra payment /claim in this regard shall be admissible.
22. If any tenderer withdraws his tender before expiry of the validity period, or before the issue of letter of acceptance, whichever is earlier, or makes any modification in the terms and conditions of the tender which are not acceptable to the department, then the Employer shall, without prejudice to any other right remedy, be at liberty to forfeit 50% of the earnest money absolutely. This provision would naturally apply only to the lowest tenderer once the earnest money of all the tenderers except that of the lowest is refunded .
23. In case of forfeiture of earnest money as prescribed above the tenderer shall not be allowed to participate in the retendering process of the work.
24. Tenders with any condition, including conditional rebates, shall be rejected. However, tenders with unconditional rebate will be acceptable.

**Signature of the Contractor  
with date**



## NATIONAL PHYSICAL LABORATORY

Renovation of Room No-127,127-B,127-C and 128-B in main building at NPL Campus ( Civil & Electrical).

### SUMMARY SHEET

Brought forward from Page No. 1	Rs.
Brought forward from Page No. 2	Rs.
Brought forward from Page No. 3	Rs.
Brought forward from Page No. 4	Rs.
Brought forward from Page No. 5	Rs.
Brought forward from Page No. 6	Rs.
Brought forward from Page No. 7	Rs.
<hr/>	
	TOTAL Rs.

=====

(In words Rupees \_\_\_\_\_)

**SIGNATURE OF THE CONTRACTOR**

**NATIONAL PHYSICAL LABORATORY  
DR. K.S. KRISHNAN MARG,  
NEW DELHI – 110 012**

**APPENDIX**

Renovation of Room No-127,127-B,127-C and 128-B in main building at NPL Campus ( Civil & Electrical).

PARTICULARS OF MATERIAL			RATES AT WHICH THE MATERIAL WILL BE CHARGED TO THE CONTRACTOR		PLACE OF DELIVERY
	APPROX. QNTY	UNIT			
<b>CEMENT</b>	<b>02 Bags</b>	BAGS	CEMENT & Steel WILL BE ARRANGED BY THE CONTRACTOR		BY OWN ARRANGEMENT
<b>STEEL</b>	<b>NIL</b>	P.M.T.	RS. (FIGURE)	RS. IN WORDS	Central Store on availability otherwise to be arranges by the contractor at his own cost.
			34000/-PMT	Thirty-four thousand	



**NATIONAL PHYSICAL LABORATORY  
DR.K.S. KRISHNAN MARG  
NEW DELHI-110012**

**Name of work: - Renovation of room no. 127, 127-B, 127-C and 128-B in main building at NPL Campus.**

**SCHEDULE OF WORK**

<b>S. No</b>	<b>Description of Items</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate in figure</b>	<b>Rate in words</b>	<b>Amount</b>
1	Providing and fixing aluminium tower bolts ISI marked powder coated or anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade with necessary screws etc. complete as per directions of Engineer-in-charge : 150x10 mm	6	each			
2	Providing and fixing aluminium handles ISI marked powder coated or anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete as per directions of Engineer-in-charge : 100 mm	6	each			
3	Providing and laying Vitrified tiles in floor & skirting with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints with white cement and matching pigments etc. complete. Size of Tile 600x600 mm	111	sqm			
4	Providing and fixing 15mm thick USG - Radar Mineral Fibre False Ceiling Tiles or equivalent of size 600x600 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 170 gsm/sqm.) consisting of main "T" runner suitably spaced at joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minium) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minium) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and laying 15mm thick mineral fibre false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc.					

	Main "T" runners to be suspended from ceiling using GI slotted cleats fixed to ceiling with 6 mm dia and 50mm long dash fasteners, 4mm GI adjustable rods with galvanised level clips spaced at 1200mm center to center along main T, bottom exposed width of 24mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-Charge. Note : (i) Only mineral fibre false ceiling area will be measured for the purpose of payment. (ii) The mineral fibre ceiling shall either be precast (moulded) or wetted product and shall have NRC value of 0.5(minimum) CAC 35-39, light reflection 84% (minimum), fire rating class A as per ASTM E - 84, suitable for 95% relative humidity and also having thermal Resistance "(R)" = 0.33m <sup>2</sup> deg. C/W (iii) The job to be carried out by reputed company like lioyds insulations (India) Ltd., or equivalent having sufficient work experience.	59	sqm			
5	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	245	sqm			
6	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including water thinnable priming coat with cement primer.	245	sqm			
7	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50metres lead : With cement mortar 1:4 (1 cement : 4 fine sand)	10	sqm			
8	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	245	sqm			
9	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work.	18	sqm			
10	French spirit polishing : One or more coats on old work.	60	sqm			
11	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground outside NPL campus.	12	sqm			

12	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	7	sqm			
13	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :					
(a)	For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron)	68	kg			
(b)	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). Powder coated aluminium (minimum thickness of powder coating 50 micron)	48	kg			
14	Providing and fixing 12mm thick Pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	6	sqm			

**Total =** (.....)

**(Rupees in words.** (.....))

- Note:-
1. All Paint items to be of M/s Asian Paint / Nerolac / Burger or equivalent as approved by Engineer-in-charge.
  2. All Tiles are to be of NITCO, ORIENT, SOMANY KAJARIA make or equivalent as approved by Engineer-in-charge

Signature of Contractor  
with Date

**NATIONAL PHYSICAL LABORATORY**  
**Dr. K.S. Krishnan Marg**  
 New Delhi-110012

Name of work: Renovation of R.N. 127, 127B, 127C and 128B in main building at NPL (WORK SCHEDULE ELECTRICAL PART)

**SCHEDULE OF QUANTITY**  
 (ELECTRICAL WORKS)

Sr.N.	PARTICULAR	QTY	UNIT	Rate in figure	Rate in word	Amount
1	Wiring for light point/fanpoint/exhaust fan point/call bell point with 1.5 sq.mm. FR PVC insulated copper conductor single core multistrend, ISI marked cable in surface/recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core, multistrend/ISI marked cable etc as required.					
a	Group C	17	Each			
2	Supply of following type fluorescent fittings Mirror Optics/rail mounting complete in all respect choke, starter etc. including with suitable size of lamps. Make only as required equivalent to following Cat No. as required. Philips/Crompton					
a	FBS 300 M 2 X PL-136W IC P5 + Two no. 36 W/CFL	20	Each			
3	Installation, testing and commissioning of prewired, fluorescent fitting/ compact fluorescent fitting of all types, complete with all accessories and tubes etc. including supplying and fixing ball and socket arrangement, 2 nos. down rods of 20 mm dia x 1.6 mm thick steel conduit upto 90cm. length, painting etc. OR supplying and fixing 2 nos. chromium plated chain 12 SWG thick including fixing the fitting with 2 nos. suitable hook on two sides with chain and chain is to be fitted with steel fasteners from ceiling and wiring the down rods/flexible pipes and connections with 1.5 sq.mm. FR PVC insulated, copper conductor, single core, multistrend, ISI marked cable and earthing as required.	20	Each			

*Dr. K.S.*

4) Installation, testing and commissioning of ceiling fan including wiring the down rod of up to 1 meter length with 1.5sq. mm. FR PVC insulated, copper conductor, single core, multistrend, ISI marked cable as required.	5	Each			
5) Supplying & fixing of 5 step type electronic fan regulator on the existing switch box including	5	Each			
6) Supply and fixing of suitable size ceiling fan hook on ceiling after breaking the ceiling and repair the same or fix in garder/pipe as per site requirement.	5	Each			
7) Wiring for circuit wiring /Submain wiring alongwith earth wire with the following sizes of FR PVC Insulated copper conductor, single core, multistrend, ISI marked cable in surface/recessed steel conduit as required.	5	Each			
a) 2x4 sq. mm. + 1x4 sq. mm. Earth wire	45	Mtr			
b) 2x6 sq. mm. + 1x6 sq. mm. Earth wire	50	Mtr			
c) 4x6 sq. mm. + 2x6 sq. mm. Earth wire	30	Mtr			
d) 4x16 sq. mm. + 2x16 sq. mm. Earth wire	5	Mtr			
8) Supplying and fixing of following sizes of steel conduit alongwith the accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making					
a) 20 mm.	25	Mtr			
b) 25 mm.	5	Mtr			
9) Supplying and drawing 2 pair 0.5 sq mm FR PVC Insulated copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	25	Each			
10) Supply and fixing metal box of following sizes [nominal size] on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required					
a) 75 mmx 75mm x80mm deep	3	Each			

*Open*

b	200 mm. x 250 mm. x 60 mm. deep	18	Each			
11	Supplying and fixing following Piano type switch/socket on the existing switchbox/cover including connections.					
a	5/6 amps switch	3	Each			
b	15/16 amps. piano type switch	54	Each			
c	3 pin 5/6 amps. Socket outlet	3	Each			
d	6 pin 15/16 amps. Socket outlet	54	Each			
e	Telephone Socket outlet	3	Each			
12	Supplying and fixing of following way, single pole and neutral/Three pole and neutral, sheet steel MCB distribution board, 415 volts, on surface/recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required.					
a	4 way (4+12) Three pole, Double Door horizontal	3	Each			
13	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	3	572.00			
14	Supplying and fixing of following rating, 240 /415 volts, C series, miniature circuit breaker of following poles in the existing MCB DB complete with connections, testing and commissioning as required.					
a	5 to 32 amp. SP MCB	20	Each			
b	5 to 32 amp. TPN MCB	1	Each			
c	63 amp. Triple Pole and neutral MCB	2	Each			
15	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc as required	16	Each			

6/1/17

16) Dismantling and disconnection of DB's / small panels, switch board, tube, light fitting, fan, cable, wiring, conduit, etc as required as following.					
a TL fitting, switch socket board, Db/small panels etc.	25	Mtr			
b Wiring , cable and Conduit etc.	50	mtr			
<b>TOTAL</b>					

(Rupee in word

\_\_\_\_\_ )

- (1) All the wires/cables should be multistrand, ISI marked, Kalinga premium/Fenolex/Havels make only.
- (2) All the switches, socket, ceiling rose etc. should be Anchor/Cona make only.
- (3) The rates for all items of work shall be clearly specified otherwise included cost of labour, material and other inputs in the execution of the items.
- (4) The material will be used by the contractor after obtaining the approval of site engineer.
- (5) All the conduit pipe should be ISI mark AKG / JK make heavy duty and duly painted.
- (6) The material should be brought to site by the contractor through proper challan and copy of the same will be submitted to engineer in charge.
- (7) Test Report of cable will be submitted to site engineer by the contractor.
- (8) All the MCCBs MCCB, MCB DB, should be Legrand/ L&T make only.
- (9) Site may be inspected by the contractor before quoted the rates.

*Signature*



NATIONAL PHYSICAL LABORATORY  
DR. K.S. KRISHNAN MARG,  
NEW DELHI - 110 012.

Name of work:- Extension of Shed with roof treatment of TEC Building at  
NPL Campus ( Civil)

CONTENTS

Sl. NO.	DESCRIPTION	NO. OF PAGES
1	Contents	1
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NOTE Tenderer should confirm that they have received all the above papers. All the documents issued are to be returned duly signed by the tenderer while submitting his offer.

**TENDER ISSUED TO:**

M/s. / Sh.

TENDER FEE: vide P.O. No.

Dated \_\_\_\_\_ for Rs. 500/-

**Earnest Money Deposit:**

Pay order No. \_\_\_\_\_ dated \_\_\_\_\_

For Rs. \_\_\_\_\_

Issued by \_\_\_\_\_

**SIGNATURE OF THE OFFICER  
ISSUING Tenderer**



NATIONAL PHYSICAL LABORATORY  
DR. K.S. KRISHNAN MARG,  
NEW DELHI - 110 012

1. Sealed item rate tenders are hereby invited for the work "**Extension of Shed with roof treatment of TEC Building at NPL Campus(Civil)**" from the contractors of appropriate class of CPWD, Railways, MES, Post & Telegraph Dept., State PWD'S, Central, State Govt./Semi Govt./PSU's or from those who have worked for CSIR or its Laboratories/Institutes and successfully carried out preferably two or one similar works amounting to 60% or 80% or above respectively of the estimated cost during last five years.. The tenderers are required to produce proof of fulfilling these conditions along with copy of latest Sales Tax Clearance Certificate, PAN No., **and EARNEST MONEY DEPOSIT PAY ORDER** while making request for issue of tender document.
2. Estimated cost is **Rs. 15,85,414/-** (Rs. Fifteen Lakh Eighty Five Thousand Four Hundred and Fourteen only) based on DSR 2012 and **Market Rates.**
3. Time for carrying out the work will be **03 Months** and the date of commencement shall be reckoned from the tenth day of issue of award letter.
4. Complete contract documents to be complied with by the tenderer whose tender may be accepted can be seen at the office of Section Officer (Works), NPL, Dr. K.S. Krishnan Marg, New Delhi - 110 012 on any working day.
5. Tenders should be on the specified form (non-transferable) which may be obtained from the Office of Section Officer (Works), Room No. 214, NPL Main Bldg. **from 1000 Hrs. to 1600 Hrs. between 23.04.2013 to 08.05.2013** on payment of **Rs. 500/-** (Rupees five hundred only) in the shape of Demand Draft/Pay order of a schedule Bank drawn in favour of Director, NPL (Non-refundable).
6. Tenders should be submitted in wax sealed cover subscribed with the name of the work, date of opening written on the envelope. Tenders will be received **upto 1430 Hrs on 10.05.2013** and will be **opened on the same day at 1530 Hrs** in the office of Section Officer (Works), CW&M Section Room No. 214. NPL, Dr. K. S. Krishnan Marg, New Delhi - 110 012. Tender should be dropped in the tender box before the closing date and time indicated above. In case these are sent by Post these should be sent Regd. Post / Speed Post addressed to Section Officer, CW&M Section Room No. 214, NPL Tenderers are to ensure that they post the tender well in advance so as to reach before the closing time and date indicated.
7. The Earnest Money amounting to **Rs. 31,708 /-** (Rs. Thirty One Thousand Seven Hundred and Eight only) in the shape of pay order issued by a schedule Bank and drawn in favour of Director, NPL should accompany the request letter.
8. The Employer does not bind himself to accept the lowest or any tender and reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
9. Canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.

10. The tenderer shall not be permitted to tender for work in the concerned unit of CSIR in which a relative is posted in the grade between Controller of Administration and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him and who are relatives as mentioned above.

**NOTE:** A person shall be deemed to be a relative of another if, and only if, (a) they are members of a Hindu undivided family; or (b) they are husband & wife, or (c) the one is related to the other in the following manner: Father, Mother (including step mother), son (including step son), Son's son's son. Son's son's wife, son's daughter, son's daughter's son's wife, daughter's daughter, daughter's daughter's husband, Brother (including step brother), Brother's wife, Sister (including step sister), Sister's husband.

11. Tender submitted shall remain valid for 90 days from the date of opening for the purpose of acceptance and award of work, validity beyond 90 days from the date of opening shall be by mutual consent.

12. The tenderer shall quote rates both in figures and words failing which, tender is liable to be rejected. On check if there are differences between the rates quoted by the tenderer in words and in figures or in the amount worked out by him, the following procedure shall be followed:

i) When there is a difference between the rates in figures and in words, the rates which correspond to the amounts worked out by the tenderer shall be taken as correct.

ii) When the amount of an item is not worked out by the tenderer or it does not correspond with the rate written either in figures or in words, the rate quoted by the tenderer in words shall be taken as correct.

iii) When the rate quoted by the tenderer in figures and in words tallies but the amount is not worked out correctly the rate quoted by the tenderer shall be taken as correct and not the amount.

13. The tenderer should see drawings and in case of doubt obtain required particulars, which may in any way influence his tender from the Engineer as no claim whatsoever will be entertained for any alleged ignorance thereof.

14. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, installations of tools and plants (T&P) etc., conditions affecting accommodations and movement of labour etc. required for the satisfactory execution of the work contract. No claim whatsoever on such account shall be entertained by the Employer in any circumstances.

15. Earnest money will be forfeited if the contractor fails to commence the work as per letter of award.

16. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the printed form of tenders. Tenderers who are desirous to offer rebate the same should be brought out separately in the covering letter and submitted along with the tender.

17. Some of the provisions of General Conditions of contract are given below. Interpretation however shall be as given in the General Conditions of contract.

- a) DEFECT LIABILITY PERIOD: **Twelve months** from the date of completion as certified by the Employer.
- b) MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE: **Rs. 5,28,471/-**
- c) SECURITY DEPOSIT; A sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum along with the sum already deposited as earnest money will amount to security deposit of 5% of the tendered value of the work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as Performance Security within the period prescribed for commencement of work in the letter of award issued to him.
- d) COMPENSATION: Contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the cost of the whole work as shown in the agreement for every week that the work remains uncompleted or unfinished or due quantity of work remains incomplete after the proper dates. Compensation to be paid shall not exceed ten percent of the estimated cost of the work as shown in the agreement.
18. Clauses No. 28 of conditions of contract i.e., "ESCALATION" will not be applicable in this contract.
19. The materials would be brought to site in one/two lots and would be used at site only after approval of Engineer-in-Charge.
20. Store to issue: NIL  
(Contractor has to arrange Cement & Steel of the following brands:  
(iii) JK/Vikram/Shree/Birla Uttam and approved brands:  
(iv) Steel-TMT/RANA/Rathi/Kamdhenu-TOR Steel or approved brand.
21. All tenderers should submit the proof of their registration with Sales Tax Department while tendering for works in N.C.T. of Delhi as per Works contract Act, 1999. Deduction of Sale Tax at the rate of 2% of payment will be made from their running / final bill on all works within N.C.T. of Delhi. It may be noted by the tenderers that the site of work is in restricted area and there will be curb on traffic movement in specified hours. This fact should be taken into account and no extra payment /claim in this regard shall be admissible.
22. If any tenderer withdraws his tender before expiry of the validity period, or before the issue of letter of acceptance, whichever is earlier, or makes any modification in the terms and conditions of the tender which are not acceptable to the department, then the Employer shall, without prejudice to any other right remedy, be at liberty to forfeit 50% of the earnest money absolutely. This provision would naturally apply only to the lowest tenderer once the earnest money of all the tenderers except that of the lowest is refunded .
23. In case of forfeiture of earnest money as prescribed above the tenderer shall not be allowed to participate in the retendering process of the work.
24. Tenders with any condition, including conditional rebates, shall be rejected. However, tenders with unconditional rebate will be acceptable.

**Signature of the Contractor  
with date**



## NATIONAL PHYSICAL LABORATORY

Renovation of Room No- **Extension of Shed with roof treatment of TEC Building at NPL Campus (Civil)**

### SUMMARY SHEET

Brought forward from Page No. 1 Rs.

Brought forward from Page No. 2 Rs.

Brought forward from Page No. 3 Rs.

Brought forward from Page No. 4 Rs.

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TOTAL Rs.

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(In words Rupees \_\_\_\_\_)

**SIGNATURE OF THE CONTRACTOR**

**NATIONAL PHYSICAL LABORATORY  
DR. K.S. KRISHNAN MARG,  
NEW DELHI – 110 012**

**APPENDIX**

Renovation of Room No- **Extension of Shed with roof treatment of TEC Building at NPL Campus**  
(Civil)

PARTICULARS OF MATERIAL			RATES AT WHICH THE MATERIAL WILL BE CHARGED TO THE CONTRACTOR		PLACE OF DELIVERY
	APPROX. QNTY	UNIT			
<b>CEMENT</b>	<b>631 Bags</b>	<b>BAGS</b>	<b>CEMENT &amp; Steel WILL BE ARRANGED BY THE CONTRACTOR</b>		<b>BY OWN ARRANGEMENT</b>
<b>STEEL</b>	<b>NIL</b>	<b>P.M.T.</b>	<b>RS. (FIGURE)</b>	<b>RS. IN WORDS</b>	Central Store on availability otherwise to be arranges by the contractor at his own cost.
			34000/-PMT	Thirty-four thousand	



**NATIONAL PHYSICAL LABORATORY  
DR.K.S. KRISHNAN MARG  
NEW DELHI-110012**

**Schedule of Work**

**Name of work:- Extension of shed with roof treatment of TEC building at NPL Campus.**

Sl.No.	Description	Qty	Unit	Rate (Rs.)	Rate (In Words)	Amount
1	Removing of Materials by mechanical transport including loading, unloading and stacking up to 20 km distance.: Lime, moorum, building rubbish	0.9	cum			
2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - At any level upto 2nd floor.  1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	14	cum			
3	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing :  1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.8	cum			
4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	7	cum			
5	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1458	kg			
6	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.  Hot finished welded type tubes	3168	kg			
7	Brick on edge flooring on roof with bricks of class designation 7.5 on a bed of 12 mm cement mortar including filling the joints with same mortar with common burnt clay F.P.S. (non modular) bricks:					

	1:4 (1 cement : 4 coarse sand)	105	sqm			
8	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete (Complete finish with granite finishing). with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :  25 mm thick.	166	sqm			
9	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete. (Complete finish with granite finishing).	18	sqm			
10	12 mm cement plaster of mix : 1:6 (1 cement : 6 coarse sand)	55	sqm			
11	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm.	55	sqm			
12	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	263	sqm			
13	Finishing walls with textured exterior paint of required shade : Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	90	sqm			
14	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.  In cement mortar	0.9	cum			
15	Supplying and fixing at site including providing with angle frame Welded steel wire fabric of required width having rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (including primer) (Fixing at any floor both horizontal/vertical)	620	kg			

16

Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:

a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment.

b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs

(c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.

(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep.

(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :

With average thickness of 120mm and minimum thickness at khurra as 65 mm (upto 5th floor.)

484

sqm

17

Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) (upto 5th floor.)

12

cum

18	<p>Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :</p>	608	sqm			
19	<p>Extra for covering top of membrane with Geotextile, 120gsm non woven, 100% polyester of thickness 1 to 1.25mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation</p>	608	sqm			
20	<p>Providing and fixing 0.5 mm thick hi-tensile Lloyddeck or equivalent make permanently colour coated zinccalume profiled sheet of minimum 28 mm depth over the insulation with self drilling fasteners, fixed to the purlins. The sheet shall as per IS : 513, 14246, &amp; AS : 1397. (Size, colour, pattern, all will be decided by Engineer In Charge.</p>	199	sqm			

**Total** ( .....

**(Rupees In words**

(.....)

**Note.**

1. All Paint items to be of M/s Asian Paint / Nerolac / Burger or equivalent as approved by Engineer-in-charge.
2. All contractors are advised to visit site.
3. Safety will be specific job in this work and contractor should ensure to adjacent structures should not be disturbed during excution.
4. Specific roof treatment work i.e. item no. 18,19 should be carried out through approved manufacturer.
5. Contractor should submit minimum 7 years guarantee for the defect free work against item no. 18 & 19.
6. Time is very essential factor of this work and work should be completed before monsoon/during monsoon therefore contractors are advised to arrange for placing order for material etc immediately.

Signature of the Contractor  
With date