

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

NOTICE INVITING TENDER 5 / 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	AMC of Precision Air-Conditioning System fitted at different Laboratories at NPL Campus.	500/-	14,98,500/-	29,970/-	12 Months.
2	Renovation of Administration Block (E-II,AO,F&AO and Vigilance section , Vigilance Record Room and Cheque-Section (Civil and Electrical)	500/-	17,74,058/-	35,481/-	06 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 this office as per schedule detailed below:-

- Sale of Tenders : 22.3.2013 to 9.04.2013
(1000 Hrs to 1600 Hrs)
- Last Date for submission of tenders : 11.04.2013 upto 1430 Hrs.
- Verification of credentials of downloaded tenders : 11.04.2013 at 15.00 Hrs.
- Date and Time of opening of tenders : 11.04.2013 at 1530 Hrs

Detailed NIT & tender documents are available on our website 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 5 /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 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 would be carried out through valid electrical licence holder only)** Separate tender document for the work can be purchased from the Office of Section Officer (Works), 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.	AMC of Precision Air-Conditioning System fitted at different Laboratories at NPL Campus.	500/-	14,98,500/-	29,970/-	12 Months.
2.	Renovation of Administration Block (E-II,AO,F&AO and Vigilance, Vigilance Record Room and Cheque-Section (Civil and Electrical)	500/-	17,74,058/-	35,481/-	06 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 in the shape of Pay Order and to the **complete satisfaction and on recommendation of the Engineer In-Charge concerned**. Tenders shall be issued on all working days from 22.3.2013 to 9.04.2013 between 1000 Hrs to 1600 Hrs.

Tender document for the above works can be downloaded from the website 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 11.04.2013** 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 : 22.3.2013 to 9.04.2013 (1000 Hrs to 1600 Hrs.)
- Last date for submission of tenders : 11.04.2013 upto 1430 Hrs
- Verification of credentials of downloaded tenders : 11.04.2013 at 1500 Hrs.
- Date of opening of tenders : 11.04.2013 at 1530 Hrs.

Controller of Administration



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

Name of work:- Renovation of Administration Block (E-II, AO,F&AO and Vigilance, Vigilance Record Room and Cheque-Section (Civil and Electrical).

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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 TENDER**



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 Administration Block (E-II,AO,F&AO and Vigilance, Vigilance Record Room and Cheque-Section (Civil and 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. 17,74,058/-** (Rs. Seventeen Lakh Seventy Four Thousand and Fifty Eight only) based on DSR 2012 and **Market Rates**.
3. Time for carrying out the work will be **06 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 22.03.2013 to 9.04.2013** 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 11.04.2013** 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. 35,481/-** (Rs. Thirty Five Thousand Four Hundred and Eighty One 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. 2,95,676/-**

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

Name of Works : Renovation of Administration Block (E-II,AO,F&AO and Vigilance, Vigilance Record Room and Cheque-Section (Civil and 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.
Brought forward from Page No. 8	Rs.
Brought forward from Page No. 9	Rs.
Brought forward from Page No. 10	Rs.
Brought forward from Page No. 11	Rs.
Brought forward from Page No. 12	Rs.
Brought forward from Page No. 13	Rs.
TOTAL	Rs. _____ =====

(In words Rupees _____)

SIGNATURE OF THE CONTRACTOR

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

APPENDIX

Renovation of Administration Block (E-II,AO,F&AO and Vigilance, Vigilance Record Room and Cheque-Section (Civil and (Electrical)

PARTICULARS OF MATERIAL			RATES AT WHICH THE MATERIAL WILL BE CHARGED TO THE CONTRACTOR		PLACE OF DELIVERY
	APPROX. QNTY	UNIT			
CEMENT	08 Bags	BAGS	CEMENT & Steel WILL BE ARRANGED BY THE CONTRACTOR		BY OWN ARRANGEMENT
STEEL	NIL	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	Rs. Thirty four thousand P.M.T.	



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

Name of work:- Renovation of administration block (E-II, AO, FA0 and Vigilance and Cheque-section) at NPL Campus.

SCHEDULE OF WORK

SI.No	Description of Items	Qty	Unit	Rate in figure	Rate in words	Amount
1	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)	2	cum			
2	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm) with necessary accessories and screws etc. complete.	2	each			
3	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 :					
(A)	150x10 mm	26	each			
(B)	300x10mm	4	each			
4	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 :					
(A)	100 mm	26	each			
(B)	125 mm	8	each			

<p>5</p>	<p>Providing and fixing partition upto ceiling height consisting of G.I. frame and required board including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre.</p> <p>The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corner (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.</p> <p>75mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum board conforming to IS: 2095: part I</p>	<p>51</p>	<p>sqm</p>			
<p>6</p>	<p>Providing and laying Vitrified tiles in floor 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.</p> <p>Size of Tile 600 x 600 mm</p>	<p>240</p>	<p>sqm</p>			

7	<p>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.</p> <p>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 1200m 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)" = 0.33m² deg. C/W (iii) The job to be carried out by reputed company like lioyds insulations (India) Ltd., or equivalent having sufficient work experience.</p>	221	sqm			
8	12 mm cement plaster of mix : 1:4 (1 cement : 4 coarse sand)	7	sqm			
9	15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement : 4 coarse sand)	7	sqm			
10	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	415	sqm			

11	Distempering 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.	451	sqm			
12	French spirit polishing : Two or more coats on new works including a coat of wood filler.	34	sqm			
13	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 out side NPL Campus. With cement mortar 1:4 (1 cement : 4 coarse sand).	20	sqm			
14	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 meters lead : Door chowkhats	2	each			
15	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground. For door/ window/ clerestory window.	8	sqm			
16	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of thickness 4 mm	4	sqm			
17	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.	451	sqm			
18	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.	91	sqm			

19	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material out side NPL Campus as per direction of Engineer-in-charge. In cement mortar	4	cum			
20	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	2	each			
21	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead : Thickness above 10 mm upto 25 mm	51	sqm			
22	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	275	sqm			
23	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground out side NPL Campus.	19	sqm			
24	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)	293	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)	188	kg			
25	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.					
(A)	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	32	sqm			
(B)	Pre-laminated particle board with decorative lamination on both sides.	19	sqm			
26	Providing and fixing pair of handles THN-301 of M/s TRIUM or equivalent with necessary fittings etc. complete as per direction Engineer-in-charge.	2	Each			
27	Providing and fixing floor spring TTS-84 of M/s TRIUM or approved band and manufacturer, for toughened glass door including cost of cutting floors as required, embedding in floors and making smooth the surface and including fittings like over-panel pivot patch fitting TM-30, top patch fitting TM-20, bottom patch fitting TM-10, complete as per the direction of Engineer-in-charge.	2	Each			
28	Providing and fixing 162 x 52 mm TA-100 bottom/ top patch lock with 20mm throw & security profile escutcheon including all the fittings like bottom lock keeper (with easy clean socket system with fixing screws / wall plugs stainless steel 304) TS-10 of M/s TRIUM or equivalent approved by Engineer-in-charge for toughened glass doors, including necessary cutting holes and making good etc. complete.	2	Each			

<p>29</p> <p>(a)</p>	<p>Providing and fixing toughened glass of M/s Gold Plus or equivalent approved by Engineer-in-charge for door and partitions, including cut-outs, holes, countersunk holes and all the patch fittings like four-way spider fittings with fin sported LFS-03, spider fitting for supporting with the wall LFS-02, top fin bracket TPS-04C, routel rigid bolt TPS-20, over-panel to side panel patch fitting for door TM-61, U-channel and film over glass wherever required, complete with filling the gaps and grooves at joints with silicon as per architectural drawings and the directions of Engineer-in-charge. (Including all the patch fittings of M/s TRIUM or equivalent approved by Engineer-in-charge).</p> <p>For fixed portion: 8mm thick toughened glass with solar film of garwave make as aproved by the Engineer -in-charge.</p>	<p>29</p>	<p>sqm</p>			
<p>(b)</p>	<p>For shutters: 12mm thick toughened glass with solar film of garwave make as aproved by the Engineer -in-charge.</p>	<p>4</p>	<p>Sqm</p>			

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

ABSTRACT OF QUANTITIES

	Name of work: Renovation of administration block (E-II, AO,FAO , cheque, Vigilance Record Room & Vigilance Section) in main building at NPL Campus.					
Sr. No.	PARTICULAR	QTY	Unit	Rate in figure	Rates words	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	58	No.			
2	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.					
a	2x4 sq.mm. + 1x4 sq. mm. Earth wire	60	Mtr			
b	2x6 sq.mm. + 1x6 sq. mm. Earth wire	255	Mtr			
c	4x4 sq.mm. + 2x4 sq. mm. Earth wire	30	Mtr			
d	4x6 sq.mm. + 2x6 sq. mm. Earth wire	170	Mtr			
3	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 good the same in case of recessed conduit.					
a	20 mm.	75	mtr			
4	Supplying and fixing of following sizes of medium class PVC conduit alongwith the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
a	20mm	75	mtr			
b	25mm	90	mtr			
c	32mm	40	mtr			
5	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 x60mm deep	13	No.			

b	200 mm. x 250 mm. x 60 mm. deep	40	No.			
6	Supplying and fixing following Piano type switch/socket on the existing switchbox/cover including connections .					
a	5/6 amps switch	9	No.			
b	15/16 amps. piano type switch	120	No.			
c	3 pin 5/6 amps. Socket outlet	9	No.			
d	6 pin 15/16 amps. Socket outlet	120	No.			
e	Telephone Socket outlet	13	No.			
7	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. cromium 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 steal fastners from cealing 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.	39	No.			
8	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.	16	No.			
9	Supplying & fixing of 5 step type electronic fan regulator on the existing switch box including connection as required.	16	No.			
10	Supply of 48", 230 V, AC ceiling fan(white) complete in all respect including three blades, capacitors, and upto 1 mtr. Length of heavy gauge suitable size down rod as per site requirement. the ceiling fan should be Crompton greaves(high speed model) / Hevels(velocity model) only .	16	No.			
11	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	56	No.			
b	5 to 32 amp. SPN MCB	8	No.			
c	40 amp. TPN MCB	2	No.			
d	63 amp. TPN MCB	5	No.			

12	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	63 amps.	1	No.		
b	100amps	1	No.		
13	Supplying and fixing of following way, single pole and neutral/Three pole and neutral, sheet steel MCB distribution board, 240/415 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	2-way single pole	8	No.		
b	4 way (4+12) Three pole, Double Door horizontal	4	No.		
14	Providing and fixing 6 SWG dia GI wire on surface or in recess for loop earthing alongwith the existing surface/recessed conduit/submain wiring/cable as requird.	160	Mtr		
15	Supply and making end termination with brass compression gland and aluminium lugus for following size pvc sheathed armoured XLPE aluminium conductor cable of 1.1 kv grade ISI cable as required.				
a	4 x 16 sq.mm.	4	No.		
b	4 x 25 sq.mm.	10	No.		
16	Supply of following type flour scent 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 Greaves make only.				
a	FBS 300 M 2 X PL-L36W IC P5 + Two no. 36 W CFL	39	No.		
17	Laying of pvc insulated pvc sheathed armoured XLPE aluminum conductor cable of 1.1 kv grade ISI marked cable of following sizes in the existing masonary open duct as required.				
a	size not exceeding 25 sq.mm.	35	Mtr		
18	Laying and fixing of one no. pvc insulated pvc sheathed/ XLPE aluminium conductor cable of 1.1 kv grade of following sizes on surface as required.				
a	size not exceeding 25 sq.mm.	30	Mtr		

19	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.	15	No.			
20	Supply of XLPE insulated, pvc sheathed armoured 1.1 kv grade, aluminum conductor cable ISI as required.					
a	4 x 16 sq.mm.	30	meter			
b	4x25 sq.mm.	50	meter			
21	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.	190	mtr			
22	Supplying CAT6 UTP internet cable as per required.(cable should be D-link make only)	535	mtr			
23	Drawing CAT6 UTP internet cable in the existing conduit including connections etc. as required.	480	mtr			
24	Supplying and fixing on surface one no. wall mounting CAT6 punch type internet socket with one no. gang and shutter interconnection complete in all respect as required.	28	No.			
25	Dismantalling and disconnection of DB's / small panels,switch board, tube, light fitting, fan, cable, conduit, etc as required as following.					
(a)	TL fitting, switch socket board, Db'/small panels etc.	95	No.			
(b)	Conduit pipe with wiring.	320	mtr			
	TOTAL					

(Rupees in words.....)

Signature of
contractor with
date

- (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 MCB's MCCB, MCB DB, should be Legrand/ L&T make only.
- 9) Site may be inspected by the contractor before quoted the rates.

**Signature of
contractor with
date**



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

Name of work:- AMC of Precision Air-Conditioning System fitted at different Laboratories at NPL Campus.

CONTENTS

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1	Contents	1
2	Notice Inviting Tenders	2-4
3	Schedule of quantities & summary	5- 8
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 TENDER**



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

1. Sealed item rate tenders are hereby invited for the work "AMC of Precision Air-Conditioning System fitted at different Laboratories at NPL" 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., **valid electrical** licence and **EARNEST MONEY DEPOSIT PAY ORDER** while making request for issue of tender document.
2. Estimated cost is **Rs. 14,98,500/-** (Rs. Fourteen Lakh Ninety Eight Thousand and Five Hundred only) based on **Market Rates**.
3. Time for carrying out the work will be **12 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 22.03.2013 to 9.04.2013** 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 11.04.2013** 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. 29,970 /-** (Rs. Twenty Nine Thousand Nine Hundred and Seventy 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. 1,24,875/-**.
- 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

AMC of Precision Air-Conditioning System fitted at different Laboratories at NPL

SUMMARY SHEET

Brought forward from Page No. 1	Rs.
Brought forward from Page No. 2	Rs.

TOTAL	Rs.
	=====

(In words Rupees _____)

SIGNATURE OF THE CONTRACTOR

**NATIONAL PHYSICAL LABORATORY
SCHEDULE**

Name of Work: AMC of Precision Air-Conditioning System fitted at different Laboratories at NPL Campus.

S.No.	PARTICULAR	QTY	Unit	RATE	AMOUNT IN FIGURE	AMOUNT IN WORDS
	ITEM NO.1 Liberet/Hiross/Flair make air cooled microprocessor controlled package Air conditioning system fitted at different laboratory and different capacity at NPL.					
1	Force std. Lab 12 TR capacity	3 NOS.	EACH			
2	Length Std Lab 12 TR capacity	1 NOS.	EACH			
3	CMM Lab 12 TR capacity	2 NOS.	EACH			
4	Mass Std. Lab 12 TR capacity	1 NOS.	EACH			
5	Vaccum & Pressure Std. 10 TR capacity					
	7.5 TR capacity	2 NOS.	EACH			
	5 TR capacity	1 NOS.	EACH			
6	Time & Frequency Lab 9 TR capacity	2 NOS.	EACH			

7	Force std. Lab 3.25 TR capacity	3 NOS.	EACH			
8	Electronic Std. Lab 10 TR capacity	3 NOS.	EACH			
9	AC High Voltage Lab 10 TR capacity	2 NOS.	EACH			
10	Dr. M.K. Mittal Lab 7.5 TR capacity	2 NOS.	EACH			
11	Dr. K.P. Choudhary Lab (Room no. 28) 10 TR Capacity	1 NOS.	EACH			
12	Room No. 35 5 TR capacity	1 NOS.	EACH			
13	Auditorium (Blue star make comfort AC package 16.5 TR capacity	5 NOS.	EACH			
	TOTAL					
TOTAL IN WORDS						

SCOPE OF WORK

- 1) Cleaning of units, Air filter, cooling coils and condenser coils etc. every month.
- 2) Checking the operation of each unit, controller etc. every month.
- 3) Checking of the pressure readings of every unit during preventive maintenance visits.
- 4) Repairing or replacing the components of the equipment when found necessary.
- 5) Lubricating the bearings of motors if found necessary.
- 6) Attending the complaints immediately as and when required.
- 7) All burnt compressors and motors in case of each machines should be got repaired from authorized repairer/manufacturer.
- 8) No cartage or any type of charges will be paid to contractor for attending the complaints.
- 9) The components/spares/microprocessors/gas/oil and welding equipments required for repairing will be supplied free of cost by the contractor.
- 10) No machines remain inoperative for want of repair for more than 72 hours, failing which a penalty will be imposed on pro-rata basis.
- 11) The firm will have to prepare inspection visit report monthly and one copy of the same will be handed over to NPL.
- 12) Contractor to check all the machines before quoting the rate. All the machines should be in running condition during the AMC period.
- 13) One skilled mechanic and one helper should always available at site during working hours.
- 14) Payments will be made quarterly bases after satisfactory completion of service of three months.