1/17

CSIR- NATIONAL GEOPHYSICAL RESEARCH INSTITUTE
(Council of Scientific & Industrial Research)
Uppal Road, Hyderabad - 500 007

NGRI No. 03/18/2016-Wks

Dated:28.9. 2016

Tender Schedules for the work of **"Renovation of S.B. Hall Rooms and lounge Area in Extension Building at CSIR-NGRI, Hyderabad"**. COST OF TENDER PAPERS RECEIVED Rs. 500/- (Rupees Five Hundred only).
Vide D.D. No. .....
Bank..... Dt: .....

TENDER TO BE SUBMITTED TO THE DIRECTOR, NGRI, Hyderabad

Tender Issued to Shri / M/S .....
.....
.....

Signature of the Issuing Authority

CONTENTS

Sl.No.	Description	No. of Pages
01.	Contents	1
02.	Detailed Notice Inviting Tenders	4
03.	Compliance to Labour Laws & Apprentice Act	1
04.	Contractor`s Site Superintendence	1
05.	Special Conditions	1
06	Additional Conditions of Cement, Steel & Bitumen	2
07.	Special Conditions	1
08	Additional Special Conditions	1
09	Abstract of Cost	1
10	Schedule of Quantities.	5
11.	Special Conditions & General Conditions of Contract etc. and Drawing	Can be seen in the office of The Director, NGRI (H) during office hours.

EARNEST MONEY DEPOSIT INFORMATION

Earnest money of Rs 10,800/- (Rupees Eight Thousand Nine Hundred only) deposited with the Director, NGRI, Hyderabad, Vide Demand Draft No..... Dt..... drawn in favour of The Director, NGRI, Hyderabad, on .....(name of the Bank) .

Date:

Signature of the Tenderer

2/17

CSIR-NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

(Council of Scientific & Industrial Research)
Uppal Road, Hyderabad – 500 007

NGRI No03/18/2016. –Wks

Dated: 28-09-2016

NOTICE INVITING TENDERS

Sealed tenders are hereby invited for the work of **Renovation of S.B. Hall Rooms and lounge Area in Extension Building at CSIR-NGRI, Hyderabad"**. from the contractors of appropriate class of works in CPWD, Railways, MES, State PWD, Post & Telegraph Department and / or from those who have carried out civil/similar types works for CSIR and Semi-Govt. organizations and other such type of organizations and carrying such type of jobs amounting to 80% of one work or 60% of two works or 40% of three works for the last 5 years. The tenderers are required to enclose both Original and photo copies in proof of Registration certificate, experience in similar type of works, Income Tax clearance certificate etc. while making request for issue of Tender documents. The originals will be returned after verification.

1. Tender document may be obtained from Civil Engineering Section Room No. 35 from 10.00 AM to 12.30 PM on payment of Rs. 500/- for each by means of D.D.(Non-refundable) drawn in favour of "Director, NGRI, Hyderabad". Tender documents are also available in CSIR-NGRI website i.e www.ngri.org.in

2. The documents who have purchased from CSIR-NGRI have to submit in three envelope system

   Envelope I: 1. DD for EMD (Issued from the scheduled Banks).
   Envelope II: Tender Schedules / price Bid
   Envelope III: Envelope I and II

3. The bidders who intend to down load from CSIR-NGRI i.e www.ngri.org.in have to submit in three Envelope system
   Envelope I : 1. Demand Draft for Cost of tender Document, 2. DD for EMD (Both the drafts issued from the scheduled Banks), 2. Valid Registration if any, 3. Experience certificates, 4. IT returns for the last three years.
   Envelope II : Tender Schedules /Price Bids
   Envelope III : Envelope I and II
   Each Envelope to be superscribed clearly the name of work and the details of document, date & time opening on itt

   The Bidders who down loaded from web site has to present with Original certificates of registration, Experience certificates, PAN number etc of the copies submitted in **Envelope I** for the verification of tender opening committee. No attested copies will be accepted. If any documents found fake that the Bidder/firm/contractor will be black listed and the same will be intimated to other public sector organizations. NSIC or in any other form of exemption for EMD is allowed.

4. If the Bidder/firm/contractor not present to show the original certificates to tender opening committee, the Bids/tenders submitted by the firm may be treated cancelled and the technical/ price bids will not be opened.

5. **Estimated cost is Rs. 5.37 Lakhs (Rupees Five lakh Thirty Seven thousand only).**

6. Time for carrying out the work for rate contract for **2** Months and the date of commencement shall be reckoned from the 10th date issue of the award letter.

7. Complete contract documents to be compiled with by the Tenderer whose tender may be accepted, can be seen at the office of the Director, N.G.R.I., Hyderabad

8. Tenders should be on the specified form (Non-refundable) which may be obtained from the office of Director, NGRI, during office hours on payment of **Rs. 500/-** by means of D.D. (Non-transferable) in favour of Director, N.G.R.I., Hyderabad

9. Tenders should be submitted in double sealed covers super scribed with the name of the work, date and time of opening written both on the inner and outer envelopes. Tenders will be received in the office of the Director, N.G.R.I., Hyderabad. The completed Tenders should be dropped in the Tender Box before the closing date and time indicated. In case these are sent by post these should be sent by Regd. Post / Speed post addressed to the **Director, N.G.R.I., Hyderabad–500007**. Tenderers are to ensure that they post the tender well in advance so as to reach us before the closing time and date indicated.

   a. Tenders issued from 29/09/2016 to 07/10/2016 from 10.00 A.M. to 12.30 P.M.
   b. Tenders will be received up to 3:00 P.M. on 07/10/2016
   c. Tenders will be opened on 07/10/2016/ at 3:30 PM

11. Earnest Money amounting to **Rs. 10,800/-** (Rupees Ten thousand Eight Hundred Only) as demand draft of a scheduled Bank and drawn in favour of The **Director, N.G.R.I.,** Hyderabad along with copies of Registration certificate, experience in similar type of works, Income tax clearance certificate etc. are to be submitted while requesting for the tender schedule.

12. 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.

13. Canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.

14. The tenderer shall not be permitted to tender for works in the concerned unit of CSIR in which relative is posted in the grade between Controller of Administration and Junior Engineer, (both inclusive). He shall also intimate the name of persons who are working with him in any capacity 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 and 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 Wife, Daughter (Including step daughter) Father's father, Son's Son, Son's Son's wife, Son's daughter, Son's daughter's husband, Daughter's husband , Daughter's son, 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.

15. 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.

16. The Tenderer shall quote rates both in figures and words. He shall also workout the amount for each item of work and write in both figures and words. 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.

17. 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.

18. 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 material, installations of tools and plants (T & P), etc., conditions affecting accommodation and movement of labour, etc., required for the satisfactory execution of the contract. No claim whatsoever on such account shall be entertained by the employer in any circumstances.

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

20. 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.

21. Some of the provisions of general conditions of contract are given below. Interpretations, however, shall be as given in the general conditions of the contract.

a) **DEFECTS LIABILITY PERIOD** : Twelve months from the date of completion as certified by the Employer.

b) **MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE:**

Rs. 2.70 (Rs Two lakh Seventy Thousand only) Intermediate certificate for a lesser amount can not be admitted for payment at the discretion of the Engineer.

22. **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 the 5% tender value of the work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tenderd value of the contract as Performance Security within the period prescribed for commencement of work in the letter of award issued to contractor/firm.

5/18

23. **COMPENSATION:** Contractor shall pay as compensation an amount equal to one per cent 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 un commenced or unfinished or due quantity of work remains incomplete after the proper dates. Compensation to be paid shall not exceed Ten per cent of the estimated cost of the work as shown in agreement.

24. **Tax deduction at source:**
    i. Income tax will be deducted 2%
    ii. VAT 5%
    ii. Labour Cess 1%
    iii. Seigniorage charges will be recovered from the contractor's bill as per the rate prescribed time to time by Govt.of A.P. applicable.

25. The required building material, if any, is to be procured by the contractor including steel and cement (ACC/Raasi/ Orient / L&T) and the quality of material be tested by the Engineer-in-charge. The testing charges will be borne by the contractor.

Date:
HYDERABAD.

SIGNATURE OF THE TENDERER

6/17

COMPLIANCE TO LABOUR LAWS & APPRENTICE ACT

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, Contract Labour (Regulation and Abolition) Act, 1970, and rules and orders framed there under and other labour laws affecting contract labour and Apprentice Act, 1961 and the rules and orders framed there under that may be in force or brought into force from time to time. Contractor shall obtain a valid license under Contract Labour (R&A) Act 1970 and Contract Labour (R&A) Central Rules 1971 before commencing work and which should be valid till the completion.

Signature of Contractor

7/17

I. CONTRACTOR'S SITE SUPERINTENDENCE

Staff to be employed by contractor on works:
The contractor shall employ the following technical staff during execution of works:

(a) For building and road works

(i) One graduate Engineer, when the tendered cost of work exceeds Rs.10 lakhs
(ii) One qualified Diploma holder (overseer) with experience not less than 3 years when the tendered cost of work exceeds Rs.5 lakhs but less that Rs.10 lakhs
(iii) One qualified Diploma holder when the tendered cost of work is more than Rs.2 lakhs but less than Rs.5 lakhs

(b) For sanitary and water supply works:

One qualified diploma holder with experience of not less than 5 years, out of which one year should be in sanitary and water supply works when the tendered cost of work is more than Rs.50,000/-

(c) For electrical works

(i) One qualified Graduate Engineer possessing Degree in Electrical Engineering from recognized university with an experience of not less than 3 years or a Diploma holder in Electrical Engineering with an experience of not less than 7 years when the tendered cost of the work is not less than Rs.1.5 lakhs
(ii) One Graduate Electrical Engineer with two years experience or a Diploma holder I Electrical Engineering with experience of not less than 3 years, when the tendered cost of the work is more than Rs.75,000/- but less than Rs.1.5 lakhs.
(iii) One Diploma holder in Electrical Engineering with experience of not less than 3 years when tendered cost of work is more than Rs.37,000/- but less than Rs.1.5 lakhs
(iv) One licensed Supervisor with experience of not less than 3 years when the tendered cost of work is more than Rs.7,500/- and less than Rs.37,000/-

1. In case the contractor fails to employ the technical staff as aforesaid, he shall be liable to pay reasonable amount not exceeding the amount shown below for each month of default. These recoveries are subject to modifications from time to time by CSIR based on CPWD:-

(i) In case when a Graduate Engineer is to be employed
..... Rs.3,000/-

(ii) In case when a qualified Diploma holder is required to be employed
..... Rs.1,500/-

(iii) In case when a technical Supervisor is required to be employed
..... Rs.750/-

ADDITIONAL CONDITIONS OF CEMENT, STEEL & BITUMEN

CONDITIONS FOR CEMENT:

1. The contractor shall procure 33 grade (Conforming to IS: 269) or 43 grade (Conforming to IS: 8112) ordinary Portland cement, as required in the work, from reputed manufactures of cement having a production-capacity of one million tones per annum or more such has ACC, L & T, J.P, Rewa, Vikram, Shri Cement, Birla Jute and Cement Corporation of India etc, as approved by Ministry of Industry, Government of India, and holding license to use ISI certification mark for their product whose name shall be got approved from Engineer-in-Charge. Supply of cement shall be taken in 50 Kg. bags bearing manufacture's name and ISI marking, samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.
2. The cement shall be brought at site in bulk supply of approximately 50 tones or as decided by the Engineer-in-Charge.
3. The cement godown of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provisions shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorized representative and the key of the other lock remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.
4. The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor.
5. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in Clause 6 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 6 of the contract and shall be governed by conditions laid therein.
6. Cement brought to site and cement remaining unused after completion of work shall not be removed from without written permission of the Engineer-in-Charge.

CONDITIONS FOR STEEL:

1. The contractor shall procure steel reinforcement bars conforming relevant BIS codes from main producers as approved by the ministry of steel. The contractor shall have to obtain and furnish test certificate to the Engineer-in-Charge in respect of all supplies of steel brought by him to the site of work. Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not confirm to BIS codes, the same shall stand rejected and shall be removed from the site of work by the contractor at his cost within a week's time from written orders from the Engineer-in-Charge to do so.

2. The steel reinforcement shall be brought to the site in bulk supply of 10 tonnes or more as decided by the Engineer-in-Charge.

3. The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent Distortion and corrosion and nothing extra shall be paid on this account. Bars of different size and lengths shall be stored separately to facilitate easy counting and checking.

4. For checking nominal mass, tensile strength, bend test, re-bend test etc.., specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

Size of bar	For consignment below 100 tonnes	For consignment over 100 tonnes
Under 10mm dia.	One sample for each 25 tonnes or part thereof.	One sample for each 40 tonnes or part thereof.
10mm to 16mm dia	One sample for each 35 tonnes or part thereof.	One sample for each 45 tonnes or part thereof.
Over 16mm dia	One sample for each 45 tonnes or part thereof.	One sample for each 50 tonnes or part thereof.

5. The contractor shall supply free of charge the steel required for testing. The cost of tests shall be borne by the contractor.

6. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 6 of the contract. The theoretical consumption of steel shall be worked out as per procedure in clause 6 of the contract and shall be governed by conditions laid therein.

7. Steel brought to side and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.

CONDITIONS FOR BITUMEN

1. The contractor shall bring the required grade of Bitumen as specified in the item of works in sealed Drums of ISI mark & standard company / Refinery of ISI grade.

2. The contractor shall tests the bitumen free of charge in the standard approved. Laboratory as per ISI & CPWD practice for its quality.

3. The quality of Bitumen to be collected as per relevant codes of work as specified in ISI & CPWD practice.

4. In case the road work is done by Hot Mix Plant with mineral aggregate or at site the necessary relevant test of mix for quality and proportion of Bitumen to be carried out by the contractor on his own expenditures as per ISI codes & CPWD practice of the concerned works.

Special Conditions

1. Contractor should incorporate any material after taking written approval from Superintending Engineer.

2. Testing of all the materials to be got done by the contractor at his own cost by taking the letter from the office of NGRI before incorporating them.

3. Contractor has to arrange errors free leveling instruments, leveling staff, surveyor etc. He has to submit the levels of the ground/area where the work is earmarked by the Superintending Engineer on graph sheet. After completion of the work he has to submit levels of completed work. Leveling instrument should be arranged for checking levels as and when required by Engineer-in-charge.

4. Contractor has to submit the concrete mix design from the approved authorized Institute/Laboratory for the verification /consideration of Engineer-in-charge.

5. Contractor has to take levels of the work to be completed in writing from the Superintending Engineer before commencement of the work.

6. Time completion of work is essence of the contract/work. If contractor failed to complete the work within stipulated period necessary penalty will be imposed as per relevant clause of CSIR agreement clause.

7. The surface of base concrete to be cleaned wherever earth, mud, leaves, debris etc are lying.

8. Required number of steel moulds to be kept on site for casting concrete cubes.

9. Cubes to be casted as per standard specifications and to be cured to the required period.

10. Before starting the work contractor should submit the samples of materials.

11. Necessary IT,VAT etc. Govt. taxes will be deducted from the bill.

12. Payment will be made at site standard mode of measurement only.

To do the work as per the above special conditions, no extra payment will be made to the contractor. I read the CSIR works agreement conditions also and work will be completed according to rules, conditions, special conditions, specifications etc.

SIGNATURE OF THE CONTRACTOR

11/17

CSIR-NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

HYDERABAD-500 007

ADDITIONAL SPECIAL CONDITIONS

Plastic Emulsion and oil bound washable distemper & synthetic Enamel paint:

Material should be used of 1st qualify manufactured by reputed firms like M/s Jenson & Nicholson, M/s ICI, M/s Asian Paints. Once the material is approved it shall be brought to site in original sealed tins/drum directly from the supplier and shall be held at the joint custody of all the contractor and Engineer-in-charge from the Department at site. Supply in part or broken containers will not be accepted for the work. Empty tins/drums should be removed from site only when passed/ordered by the Engineer-in-charge.

Paints shall generally conform in the chemical composition and other characteristics to the relevant British standards or I.S. specifications.

II External Paint: Manufacture of M/s Asian Paints

III a) Storing of Paint: All the materials shall be kept properly when not actually in use. Lids of container shall kept closed and the surface of the paint in open or partially open containers shall be covered with a thick layer of turpentine to prevent the formation of skin. Materials which in the opinion of the Engineer-in-charge have become stale or fat shall not be used on the work and shall be removed from the site of the work forthwith.

b) Preparation of the surface: Surface shall be thoroughly cleaned of all dust, stains etc. All cracks, crevices and uneveness shall be made good by applying enamel putty, allowing it to dry and then papering the same to give a smooth and even surface.

c)Application: After the preparation of surface and having got the area approved by the Engineer-in-charge paint shall be applied.

IV) a) Necessary cleaning of floors, doors windows and glass panes etc., after painting is to be done by the contractor, no extra payment will be made for such cleaning and washing of floors etc.

b) Contractor shall fully cover the house hold article with polythene sheet/cloth while painting inside the quarter.

c) Contractor shall clean sanitary and electrical installation including fans and also make good the damages if caused operation to any of the installations.

d) Contractor should quote rate for carrying out work up to any height as per scope of work and the location of the buildings in the campus.

e) Ali the Painting application have to carried out only be suitable paint brush/ Roller/Spray as required.

Signature of Contractor

12/17

CSIR-NATIONAL GEOPHYSICAL RESEARCH INSTITUTE
HYDERABAD 500 007

ABSTRACT OF COST

S.NO.	NAME OF THE WORK	TOTAL COST
1.	Total brought forward from the Last page of tender schedule of Quantities:	
	PART-A	Rs.
	PART-B	Rs.
	GRAND TOTAL:	Rs.

(Rupees _____ **Only)**

All the materials shall be quality specified and approved by our engineer. The Contractor should inspect the site, examine specifications, drawings, schedules of quantities and tender their rates. The rates given in the schedule of quantities will be deemed to include all the necessary materials, T & P labour required for satisfactory completion of work as shown in the drawings, specifications, schedule of work.

Date:

SIGNATURE OF THE TENDERER

13/17

NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

(Council of Scientific & Industrial Research)

Uppal Road, Hyderabad - 500 007

Name of Work : Renovation of S.B. Hall Rooms and lounge area in Extension Buidling at NGRI, Hyderabad.

Sl.No.	Description of item	Qty	Unit	Rate (In Figure and Words)	Amount
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within NGRI campus as per instructions of Enginerr-In - Charge.	10.00	sqm		
2	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 200 metres lead:				
	With cement mortar 1:4 (1 cement : 4 fine sand)	10.00	sqm		
3	Providing and laying vitrified floor tiles(make of JOHNSON Nano strain free all colour premium) in different sizes (thickness to be specified by the manufacturer) with water absorptions less than 0.08% and conforming to IS :15622 of approved make , in all colours and shades, built in design tiles, border etc including providing different coloured tiles of required size in designs as per instructions of Engineer in-charge including fixing with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477 in average 6 mm thickness including grouting the joints with white cement and matching pigments etc complete.				
	Size of Tile 60 x 60 cm	164.00	Sqm		
4	Removing & refixing the existing door shutter including cutting/repairing to required size as directed by Engineer-In-Charge.				
	Of area 3 sq. metres and below	3.00	Each		

Sl.No.	Description of item	Qty	Unit	Rate (In Figure and Words)	Amount
5	Painting with Plastic Emlsion paint of approved brand and manufacture to give an even shade				
	New work (two or more coats) over and including one priming coat with base coat	479.00	sqm		
6	Removing dry or oil bound distemper , water proofing cemnent paint and the like by scrapping, sand papering the surface smooth including necessary repairs to scratches etc complete.	479.00	sqm		
7	Providing and applying wall care putty make of Brila or JK of 2 mm thickness or as per site requirement over plastered surface to prepare the surface even and smooth complete.	479.00	sqm		
8	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS: 1285 anodised transparent or dyed to required shade according to IS:1868.(Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners including necesssary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/panelling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.(Glazing and panelling to be paid for separately.)				
8.1	For fixed portion				
	Polyester Powder coated aluminium (Minimum thickness of polyster powder coating 50 micron)	78.00	Kg		
8.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots/rollers/handles and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required				
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	46.00	Kg		

Sl.No.	Description of item	Qty	Unit	Rate (In Figure and Words)	Amount
9	Providing and fixing 12 mm thick prelaminated three layer medium density(exterior grade make of Green ply, or centery ply) particle board Grade I, Type II conforming to IS:12823 bonded with phenol formaldehyde synthetic resin, of approved brand and manufacture 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.				
	Prelaminated particle board with decorative lamination on both sides.	4.00	Sqm		
10	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket/EPDM rubber etc. complete as per the architectural drawings and the directions of Engineer. (Cost of aluminium snap beading shall be paid in basic item.)				
	With glass panes of 5.0 mm thickness	11.00	Sqm		
11	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and alvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with				

Sl.No.	Description of item	Qty	Unit	Rate (In Figure and Words)	Amount
	6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recomme-nded jointing compound , jointing tapes , finishing with				
	jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge.				
	12.5 mm thick tapered edge gypsum moisture resistant board	9.00	Sqm		
12	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/ top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge				
	200 x 19 x 1.9 mm	32.00	Each		
13	Removing of Existing false ceiling and stacking of the servicable materials and disposal of unservicable materials out side the NGRI campus.	9.00	Sqm		

Sl.No.	Description of item	Qty	Unit	Rate (In Figure and Words)	Amount
14	Removing of Alumininum partition/wooden partition carefully. Stacking of servicable materials and disposal of unservicable materials as directed by Engineer-in-charge.	13.00	Sqm		
15	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking including disposal of rubbish to the dumping ground within NGRI campus as per instructions of Enginerr-In -Charge.				
	Of area 3 sq. metres and below	8.00	each		
16	Melamine matt finisih polish of old vernier wall cladding by using spray gun including all necessary sand pepering, surface prepartion, polishing including all materials, labours etc to complete the job including cleaning of existing surface where settled dust, hand marks, oil, grease, strain etc	125.00	Sqm		

Contractor's Signature