



# राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर

(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)

**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**

(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

**Name of Work: - Provision of partition and other civil works for 400 KeV ION Inplanter lab at SPS, NISER, Jatani.**

Notice Inviting E-Tender No. - NISER/ IWD-Civil/Academic/2019-20/01, Dated: 09.04.2019.

Estimated Cost of Tender: - Rs 2, 87, 875.00

Completion Time: - 30 days

Earnest Money : - Rs.5, 758.00

Cost of tender (non-refundable):- Rs. 500.00 (Rupees Five Hundred Only).

## NOTE:

1. The details of tender notification can be downloaded from [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER) under "**Tender Free View**" link.
2. Vendors should obtain the USER ID and PASSWORD from [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER) by clicking on "**REGISTER ME**" link in the homepage.
3. The Vendor registration fees has to be paid to ITI Ltd for Rs. 1180/-. Using the e-payment link provided at the time of registration, and the mode of payments are Credit Card, Debit Card and Internet Banking. Vendor Registration is Valid for 1year.
4. For further details on e-Tender participation, please contact ITI Help desk on
  - Telephone: 080-49352000/9686115318
  - Email: [harishkumar.kb@etenderwizard.com](mailto:harishkumar.kb@etenderwizard.com), [ambasa@etenderwizard.com](mailto:ambasa@etenderwizard.com).
5. Tenders should be submitted only through e-Tender portal and obtain the Tender Acknowledgement copy as a proof of successful submission.



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**TENDER DOCUMENTS**

Notice Inviting E-Tender No. - NISER/ IWD-Civil/Academic/2019-20/01, Dated: 09.04.2019

**Name of work: "Provision of partition and other civil works for 400 KeV ION Inplanter lab at SPS, NISER, Jatani."**

**I N D E X**

Sl. No.	Particulars	Remarks
1.	Particulars of Contractor	
2.	Eligibility Criteria	
3.	Abstract of general terms and conditions	
4.	Checklist of documents	
5	Experience of Contractor	

NOTE: Tender can be downloaded and bided from website address: [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER). Tender documents for viewing only are also available in NISER web-site address: [www.niser.ac.in](http://www.niser.ac.in)

SIGNATURE OF THE OFFICER ISSUING TENDER

## NAME OF THE WORK

**Provision of partition and other civil works for 400 KeV ION Inplanter lab at SPS, NISER,  
Jatani.**

### NOTE

The tenderer should enclose the following documents along with the Technical Bid otherwise tender will be summarily rejected.

- 1)
  - a) Scanned copy of self-attested works completion certificate during the last seven years from Govt./Semi- Govt. organization not below the rank of E.E as per NIT.
  - b) Scanned copy of self-attested valid Registration Certificate.
  - c) Scanned copy of self-attested PAN card.
  - d) Scanned copy of self-attested GST Registration certificate.
  - e) Scanned copy of the cost of tender paper for the bidders and EMD amount in separate D.D's as per NIT.
  - f) **Scanned copy of EPFO registration certificate.**
- 2) Also, contractors shall submit the above documents (self-attested) with original for verification before opening of technical bid for verification with original DD for EMD and cost of tender. The bidder those who will not submit the self-attested hard copies of required documents in the office, the technical bid of the bidder will not be opened.
- 3) Incomplete/Partial bid or bid not submitted in prescribed format will be rejected.



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(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)  
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(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

**NOTICE INVITING TENDER**

Director, NISER invites online tender on single bid system for the following work:-

NIT No. NISER/ IWD-Civil/Academic/2019-20/01,

Dated: 09.04.2019

Name of the Work: - **Provision of partition and other civil works for 400 KeV ION Inplanter lab at SPS, NISER, Jatani.**

Estimated Cost	:	Rs 2, 87, 875.00
Earnest Money	:	Rs.5, 758.00
Time of Completion	:	30 Days
Cost of tender (non-refundable)	:	Rs. 500.00 (Rupees Five Hundred Only)

Tender can be downloaded and bided from website address: [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER).  
Tender documents for viewing only are also available in NISER website address: [www.niser.ac.in](http://www.niser.ac.in)

Last date of submission of tender (online): 16 April, 2019 up to 12.30 PM.

Original EMD & Tender Paper cost submission at Office: 16 April, 2019 upto 3.45 PM.

Tender Opening date : 16 April, 2019 at 04.00 PM.

**Faculty In Charge**  
**Institute Works Department, NISER**



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(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

**Tender Notice**

NIT No. NISER/ IWD-Civil/Academic/2019-20/01,

Dated: 09.04.2019

Director, NISER hereby invites item rate single bid tender for the work “**Provision of partition and other civil works for 400 KeV ION Inplanter lab at SPS, NISER, Jatani**” from contractors of CPWD/MES/Railways/State PWDs and/or those who have worked for DAE or its Organizations or Govt. /Semi Government organizations and have successfully carried out a minimum of one/two/three similar works of 80%/60%/40% respectively from any of the aforesaid organizations of the estimated cost or above as indicated below, during the last seven years. The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise the bids bear the risk of not being considered. The eligible contractors are also required to submit the self-attested copies of PAN Card, Registration, GST Registration certificate and **EPFO registration certificate**.

In support of fulfilling all the essential conditions mentioned in the previous Para the contractor shall submit the past details, mentioning the name of work, estimated cost, tendered amount, gross value of work done, date of commencement as per agreement & actual date of completion as per agreement along with schedule of quantities executed and any penalty levied due to delay in executing the work from an officer not below the rank of Executive Engineer (Civil).

Estimated Cost	EMD	Performance Security	Security Deposit	Time of completion
Rs.2,87,875.00	Rs.5,758.00	@ 5% of tendered amount	A sum @ 2.5% of the gross amount of the bill shall be deducted from each running bill till the sum amounts to Security Deposit @ 2.5% of the tendered amount of the work.	30 days from the date of receipt of work order.

Tender can be downloaded and bided from website address: [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER). Tender documents for viewing only are also available in NISER website address: [www.niser.ac.in](http://www.niser.ac.in). The **tender cost of Rs. 500.00 & EMD of Rs. 5,758.00**, separately in the form of A/C payee DD/ Banker’s cheque drawn on any scheduled Bank, in favor of **Director, NISER**.

The tender documents are to be submitted in single bid. Self-attested documents in support of eligibility criteria of the contractor, tender cost and EMD are to be uploaded online. The second part with scheduled items of work & price quoted are to be uploaded in prescribed format as Financial Bid. The bidders those who are applied online have to submit the hard copies along with original documents mentioned in NIT on or before **16 April, 2018 upto 3.45 PM and Tender will be opened at 04.00 PM on 16 April, 2018**.

Director, NISER, reserves the right to accept/reject any/all tenders without assigning any reason whatsoever. Part or incomplete tenders will be summarily rejected. No further correspondences whatsoever shall be entertained in this regard. Canvassing in any manner shall result in rejection of the tender.

Any dispute arising out of this shall subject to Bhubaneswar jurisdiction only.

**Faculty In Charge**  
**Institute Works Department, NISER**

### **General Terms and Conditions:**

1. Online item rate tenders are hereby invited for the work of “**Provision of partition and other civil works for 400 KeV ION Inplanter lab at SPS, NISER, Jatani**”. The estimated cost of work is **Rs. 2, 87, 875.00**. The Earnest Money Deposit is **Rs. 5,758.00**. Contractors of CPWD/MES/ Railways/State PWDs and/or those who have worked for DAE or its units or in any Govt./Semi Govt. organizations and have successfully carried out minimum one/two/three similar work of 80%/60%/40% respectively from any of the aforesaid organizations of the estimated cost and above during the last seven years, The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise their bids bear the risk of not being considered. **The contractors those who are applied online also required to submit the self-attested copies of PAN CARD, registration, GST registration certificate, EPFO registration certificate, EMD (Original) & Tender Paper Cost (Original) before opening of Tender on or before 16 April, 2019 upto 3.45 PM.**

In support of fulfilling all the essential conditions mentioned in the previous Para the contractor shall submit the details, mentioning the name of work, estimated cost, tendered amount, gross value of work done, date of commencement as per agreement & actual date of completion as per agreement along with schedule of quantities executed and any penalty levied due to delay in executing the work from an officer not below the rank of Executive Engineer (Civil).

2. The estimated cost of the work is **Rs. 2, 87,875.00** (Rupees Two Lakh Eighty Seven Thousand Eight Hundred Seventy Five only).
3. Period for completion of the work will be **30 Days** and the date of commencement shall be reckoned from the seventh day of issue of award letter.
4. The tender documents can be made available for viewing only at NISER website [www.niser.ac.in](http://www.niser.ac.in).
5. Tenders can only be viewed from website [www.niser.ac.in](http://www.niser.ac.in). The cost of tender document (Non-transferable) shall be submitted along with the technical bid. Please note that tender documents are not transferable. Tender can be downloaded and bided from website address: [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER).
6. Tender documents are to be uploaded in two parts. The First part shall consist of the technical Bid including the cost of tender, EMD and the documents in support of eligibility criteria. The second part shall contain the financial bid showing the detail schedule of work. **Tenders complete in all respects, will be accepted through online up to 12.30 PM on 16 April 2018. The Tender shall be opened at 04.00 PM on 16 April 2018.** Please note, that bids submitted without tender cost and EMD are summarily being rejected. The bidder those who will not submit the self-attested hard copies of required documents in the office, the technical bid of the bidder will not be opened.
7. The Earnest Money amounting to **Rs. 5,758.00 (Rupees Five Thousand Seven Hundred Fifty Eight only)** as demand draft or pay order from any scheduled Bank and drawn in favor of the

**Director, NISER** should be deposited along with the tender documents. **Tender received without earnest money will be invalid and rejected as this is purely construction work.**

8. Director, NISER does not bind himself to accept the lowest or any tender and reserves the right to accept the tender either in whole or in part of the tender and the tenderer shall be bound to perform the same at the rates quoted. The decision of the Director shall be final in this regard.
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 works in the concerned unit of DAE in which a relative is posted in the grade between Controller of Administration and Scientific Assistant (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 relatives are as mentioned above.

**NOTE:-** A person shall be deemed to be a relative of another 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.

11. The Bid shall remain valid for a minimum period of 75 days from the date of opening of the tender for the purpose of acceptance and award of work. Validity beyond 75 days from the date of opening shall be by mutual consent.
12. The tenderer should see and obtain the drawings. In case of any queries, necessary clarifications may please be sought from the office of the Scientific Officer-D (Civil). No claim whatsoever will be entertained in this regard for any alleged ignorance thereof.
13. **Performance Guarantee** is liable to be forfeited if the contractor fails to commence the work as per award letter.
14. Some of the provisions of the contract are given below.
  - a) **DEFECT LIABILITY PERIOD** - Twelve months from the date of completion as certified by the authorized engineer.
  - b) **MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE**  
Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Institute.
  - c) **SECURITY DEPOSIT** - A sum @ 2.5% of the gross amount of the bill shall be deducted from each running bill of the contractor, till the sum amount to security deposit of 2.5% 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** – In the event of any delay in completion of the work beyond the scheduled period, the contractor shall pay an amount equal to **one per cent** of the total cost of work or such smaller amount as decided by Director, NISER (whose decision shall

- be final) as compensation to the institute, for every week that the work remains un-commenced or unfinished. Compensation to be paid shall not exceed **ten per cent of the estimated cost** of the total work as per award letter.
15. Stores to be issued: - No material shall be issued by the Institute. The responsibility for arranging all materials from approved manufacturer as per award letter lies with the contractor.
  16. Taxes as applicable will be deducted from every RA bill and also from the final bill of the contractor at the rate prescribed by govt. of India from time to time.
  17. The price quoted are inclusive of all taxes and duties and no taxes or duties will be paid extra. The Payment will be processed after the satisfactory completion of the work.
  18. Escalation cost will not be given for the work which the stipulated period of completion is 18 (Eighteen) months or less.
  19. The successful bidder will be required to inform the names, qualifications and experiences of the supervising staff to be deployed for execution of the work. In case of any changes occurring during the course of execution of the said work, the same shall also be intimated by the bidder to the institute.
  20. The Contractor shall have to make his own arrangements for storage of materials required for execution of the work and NISER in any manner shall not be held responsible for the storage and safe custody of the said materials at work site.
  21. Water charges @1% will be deducted from the Contractor's bill.
  22. The power will be supplied on request at one point within 50 meter of the building premises. The contractor shall install his own main switch, energy meter, cables, electric board/switch room etc. of adequate capacity and of suitable type to receive, control and further distribute the power involved. The exact location and further details about the supply point will on receipt of the contractor's application be decided upon by the Department, whose decision in the matter will be final and binding. The total final connected load and the anticipated maximum demand shall be furnished by the contractor about one month in advance of the actual initial requirement and for any addition in load subsequent to initial supply, at least one week's notice from the date of submission of installation test report for the said additional load will be given. The electricity charges will be deducted from the contractor's bill as per actual meter reading.
  23. At the time of starting the work the contractor has to inform the list of tools and plants brought to the site work. No items other than the list submitted will be allowed to be taken out of the site.
  24. The work should be executed during day time only for safety reason.
  25. Tenderers shall inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the site and shall



themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not. Submission of a tender implies that the tenderer has read the complete contract documents and is aware of the conditions, specification of the work to be done and of the local conditions and other factors having a bearing on the execution of work. Any claim either for extra amount or for additional time for execution due to ignorance about the site and working condition is not payable.

26. It is the sole responsibility of the tenderer to ensure proper lightning/visibility, access (ladder etc.) and any other safety measures for the trained personnel during work.
27. The work will be executed as per CPWD, DAE procedure of work and direction of Engineer-In-charge.
28. All the materials shall be tested and inspected in the presence of Department of their representative. Test certificates of all components shall be made available for approval of the Department.
29. No materials/equipment shall be shipped to site unless it is inspected, tested and certified for acceptance by the Department or their representative at factory as per latest additions IS, BS and other applicable standards.

**Faculty In Charge**  
**Institute Works Department, NISER**



**National Institute of Science Education and Research, JATNI**

**Bill of Quantities**

**Notice Inviting E-Tender No.- DTCN No. NISER/ IWD-Civil/Academic/2019-20/01, Dated:  
09.04.2019**

**Provision of partition and other civil works for 400 KeV ION Inplanter lab at SPS, NISER,  
Jatani**

Name of the Vendor					
Sl. No.	Description of Items	Unit	Quantity	Rate in Figures	Amount
1	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.	Cum	2.70		0.00
2	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in : Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	5.40		0.00
3	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	36.00		0.00
4	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	36.00		0.00
5	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	Sqm	36.00		0.00
6	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm	36.00		0.00
7	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.	Sqm	89.60		0.00

8	<p>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 galvanized 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 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts &amp; 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 2.64 mm 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. 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I.</p>	Sqm	40.00		0.00
9	<p>Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm</p>	Sqm	1.50		0.00
10	<p>Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.</p>	Sqm	339.20		0.00

11	<p>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) : For fixed portion. Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). This is only for refixing of partition work including labour Charges.</p>	Kg	174.56		0.00
12	<p>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, door handle of approved make all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows &amp; 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. Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). This is only for refixing of partition work including labour Charges.</p>	Kg	30.24		0.00

13	<p>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) : For fixed portion. Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).</p>	Kg	77.56		0.00
14	<p>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, door handle of approved make all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows &amp; 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. Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).</p>	Kg	16.80		0.00
15	<p>Providing and fixing 12 mm 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 aluminum 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</p>	Sqm	8.65		0.00

16	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in- Charge. (Cost of aluminium snap beading shall be paid in basic item); With float glass panes of 5.5 mm thickness.	Sqm	4.12		0.00
17	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-Charge. Anodized (AC 15) aluminium	Nos	10.00		0.00
18	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete	Nos	2.00		0.00
19	Filling the gap in between aluminium frame & adjacent RCC / Brick / Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-Charge complete. Upto 5mm depth and 5mm width.	Meter	35.20		0.00
20	Providing and fixing 100 mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Nos	2.00		0.00
21	Providing and fixing aluminium tower bolts, ISI marked, 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: 250x10 mm	Nos	2.00		0.00
22	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Single rubber stopper	Nos	2.00		0.00

23	<p>Supply and Installation of 70 mm thick magnesium oxide board drywall Tufbloc partition system having (high water &amp; fire resistance) which includes two layers of tufbloc magnesia square board having square edge &amp; size 2400 X 1200 x 10 mm to be fixed on the either side of the GI stud channel framework in horizontal position of length side board. Now the frame work includes Floor / Head ( FC 50 ) channels having thickness 0.06 mm length 3600 mm ,equal flanges of 32 mm &amp; web of 50 mm fixed to floor &amp; ceiling with suitable fasteners at 300 mm centers staggered noise &amp; fire rated silicon sealant to caulked along the perimeter of the partition frame before fixing channels.Then stud channels SC 48 having thickness 0.75 length 3600 mm , un equal flanges of 36 mm &amp; web of 48 mm should be placed into the floor / head channels positioned vertically at 600 mm centers. Horizontal intermediate channel at 1200 mm centers to locked with the vertical studs. Extra reinforcement to be provided at openings ( doors &amp; Window ). Apply Synthetic poly fiber 10 x 25 is 50 mm width,600/1200 mm density 1000 gsm filled between the studs &amp; held in position by using chicken mesh wire / pasting on the board. Now, boarding is to done on each side of studs framework in a staggered pattern by the help of self drilling screw at 300 mm centers. After boarding of two boards jointing &amp; finishing is to be done by joint compound . The flush look will appear after sanding the two boards joint properly to get a smooth look . The technical parameters of the boards - Density- 1000 kg / mt cube weight 10 kg/ mt sq , Fire -150 min acoustic STC - 50 db, climate OCRH - 50 ,99 Termite resistance -</p>	Sqm	24.50		0.00
<b>Total</b>					<b>0.00</b>