

**BID DOCUMENT**  
**FOR**

Conversion of room into 2 moot court halls

At

National Law University, Jodhpur

**Total Number of pages: 34(Thirty Four)**

S.no	Particulars	Details
1	Name of the firm	
2	Complete address	
3	Email ID OF FIRM	
4	Mobile Number	
5	Permanent account number (PAN)	
6	GST NUMBER OF FIRM	
7	EARNEST MONEY	Rs.65,000/-
8	EARNEST MONEY DETAILS	BANK NAME:- DD NUMBER:-
9	Date of submission of tender	06/11/24 UPTO 2.00 P.M.
10	Authorized Signatory	

Check List of Documents:-

S.No	Particulars
1	<p>Technical bid in sealed cover super scribed as “Technical Bid” with all required parameters as follows:-</p> <p>(A) Filled in bid document duly signed and stamped at the bottom of each page.</p> <p>(B) Annexure ‘B’ (CONSENT FOR TECHNICAL SPECIFICATIONS )</p> <p>(C ) Demand Draft of Rs. 65,000/- submitted as Earnest Money</p> <p>(D) Copy of the Income Tax PAN card of the company/ Firm</p> <p>(E) Copy of valid GST Registration of company/ firm</p> <p>(F) Notarized self certification for not being debarred/blacklisted as per Annexure”A”.</p> <p><b>(G) Successful Completion certificate of civil work(single work)(i.e new construction,repairing,renovation,work ) of total amount Rs.30.00 lacs or more in any Government Department or any reputed educational institution in one financial year out of financial years i.e 2021-22,2022-23,2023-24,2024-25</b></p>
2	Price bid in Annexure C in separate sealed cover super scribed as “Financial Bid”

## **DETAILS OF TENDER CALL NOTICE**

Sealed bids are invited for conversion of room into 2 moot court halls work at various buildings at National Law University, Jodhpur.

Sl.No	Item	Quantity
1	Conversion of room into 2 moot court halls work at various buildings at National Law University, Jodhpur.	As mentioned in schedule

Bid document for the above work can be obtained from the office of Registrar NLU, Mandore Road, Jodhpur, Rajasthan on all working days in between 10.00 A.M. to 5.00 P.M.. The bid documents can also be downloaded from University's Website ([www.nlujodhpur.ac.in/tenders.php](http://www.nlujodhpur.ac.in/tenders.php)).

Bids will be received up to 2.00 P.M. of 06/11/24 and the technical bid will be opened on the same day at 2.30 P.M in presence of the bidders or their authorized representatives if any. Opening date and time of financial bid shall be communicated subsequently after assessing the suitability and eligibility of the bidders.

## **1. Scope of Work:-**

1. Conversion of existing hall into 2 moot chambers by dismantling existing floor, aluminium partition, 28 Faculty work stations of 4 feet height (aluminium And wooden work) ,p/f new tiles, brick masonry , false ceiling etc
- 1.2 Successful bidder shall be required to execute the work within 75 days from issue of work order.

## **2. Eligibility Criteria**

The bidding concern must fulfill all the following criteria for techno-commercial qualification of the tender.

- 2.1 The Bidder must have valid PAN, GST number. (attach document)
- 2.2 The firm must not have been debarred / blacklisted by any Govt. Deptt, agency, PSUs / institution / agencies / autonomous organisations. The bidder shall submit a self certification by an authorized person duly notarized to this effect.(attach self declaration certificate duly notary attested) in the prescribed format attached as Annexure”A”.
- 2.3 **The bidder must have successfully executed civil work(single work)(i.e new construction,repairing, renovation work ) of total amount Rs 30.00 lacs or more in any Government Department or any reputed Educational institution in one financial year out of financial years i.e 2021-22,2022-23,2023-24,2024-25 (attach certificate of satisfactory completion of work from concern organization)**

## **3. INSTRUCTIONS TO BIDDERS**

- 3.1 A Bidder can submit a single bid only.
- 3.2 Incomplete, telegraphic or conditional bids shall not be accepted.
- 3.3 The contractor /firm shall not be allowed to transfer, assign, pledge or sub-contract work order/supply order under this contract to any other agency.
- 3.4 Prices quoted must be firm and fixed. No price variation / escalation shall be allowed during process of completion of the project.
- 3.5 The approved rate may be considered for future requirement with the consent of both the parties.

- 3.6 The bidders must sign at the bottom of each page of the bid documents at the time of submission in token of unconditional acceptance of the terms and conditions, technical specifications etc.
- 3.7 Valid GSTIN certificate / e-submission document duly self attested must be submitted along with the bid.
- 3.8 Deviations in terms and conditions, Specification of material, Inspection clause etc. will not be accepted under any condition.
- 3.9 Bids received late due to postal delay or otherwise will not be considered.
- 3.10 The bidders are required to furnish their offers in the price bid both in words & figures. In case of corrections ,if any, the original text/numerical must be clearly crossed out and re-written legibly above, below or on the side of the crossed out characters as per availability of space and the authorized person must put his dated initial under such corrections. In case of any conflict between figures and words, the lower rate shall prevail. In case of any error in calculation, corrected amount will be considered for calculation of lowest bidder
- 3.11 Since timely execution of works is of paramount importance, requests for extension of time shall not be entertained.
- 3.12 Canvassing in any manner shall not be entertained and will be viewed seriously leading to rejection of the bid.
- 3.13 University reserves its right to modify the bid document/details by way of amendment .Notification for Such amendment shall be notified only on university website, therefore bidders are advised to visit university website time to time.
- 3.14 Bids will be accepted & will be opened as per information mentioned in the notice-inviting tender. No receipt against submission of bid shall be issued by NLU, Jodhpur.
- 3.15 The last date of receipt of the bid is 06/11/24 upto 2.00 P.M. Sealed tenders may only dropped in the specified tender box kept in the Office of Registrar, NLU Jodhpur during office hours on working days. Bids received after due date & time will not be considered. If due to any

reason the due date is declared as a holiday the bid will be opened on next working day at the same time.

- 3.16 The technical bid shall be opened on 06/11/24 at 2.30 P.M. in the office of Registrar, NLU Jodhpur, in presence of such bidders or their authorized representatives, who are present at the time of opening.

(The bid document should be submitted in two parts as detailed below:

3.16.1 Bids should be submitted in two separate sealed envelope as mentioned below & addressed to the Registrar, NLU Jodhpur, inside a sealed envelope super-scribed “Bid for Painting & repairing work should contain Technical Bid as per Annexure – B prescribed Firm Registration certificate, declaration in lieu of Earnest Money, Technical Specification, GST Registration , Commercial terms & conditions, notarized undertaking as per ANNEXURE “A” ,other bid documents duly signed & sealed, It should be super-scribed with **Part-1 Technical Bid** “. All the papers of bid documents except the price bid duly signed should be submitted in the first envelope.

3.16.2 Second sealed envelope (part-II) should contain Price bid as per Annexure –C in a separate sealed envelope. It should be super-scribed with **“PART II Price Bid”**. Any condition in regard to financial aspects, payments, terms of rebate etc beyond the prescribed financial terms of NLU, Jodhpur will make the bid invalid. Therefore it is in the interest of the bidders not to write anything extra in the Price Bid in Annexure-C except price.

- 3.17 The procedure of opening of the bid shall be as under

3.17.1. First envelope **“PART-1 Technical Bid”** shall be opened at the time & date mentioned in the bid notice by NLU, Jodhpur representative in the presence of bidders, who choose to be present.

3.17.2 Second envelope (part-II) containing Price bid shall be opened after evaluation of technical-commercial suitability of the offer by assessing responsiveness in line with the requirements mentioned in the bid document. The time for opening of second envelope (Price bid) shall be informed separately after assessing and evaluation of technical bid. Second envelope of price bid only those bidders shall be opened who qualify in the technical bid. If necessary, the firms may be called for Technical Presentation of their product as per the time intimated by NLU, Jodhpur.

- 3.18 **Successful bidder shall be calculated on the basis of total cost of all items as mentioned in technical bid .**
- 3.19 In case of supply/use of any defective material or substandard material, the materials will be rejected & it will be the responsibility of the supplier for taking back & replacing the rejected materials at their own cost. In case of non-lifting of such rejected materials within a reasonable time offered by the office it will have the right to suitably dispose off the same and forfeit the amount.
- 3.20 The supplied materials/execution of work should strictly comply with the specifications as mentioned in the bid, otherwise the material would be liable for rejection.
- 3.21 Any clarification on the technical specification and commercial terms and conditions may be clarified in writing from NLU, Jodhpur
- 3.22 Deviation of any commercial terms and condition and technical specification shall not be entertained under no circumstances.
- 3.23 Bidders may in their own interest visit the sites and undertake site visit before submitting bids. NLU, Jodhpur will not be responsible for any incidental or consequential losses of the firms while execution and till expiry of the period of maintenance.
- 3.24 The contractor shall abide by all laws, rules and regulations framed there under or any other statutory obligations which are in force from time to time. The contractor/firm shall indemnify the Institute from any claims in this regards.
- 3.25 Any losses sustained by Institute due to negligence of contractor's service in the form of loss/damage of property, will be recoverable from the contractor, as the money value shall be estimated by the Institute. The decision of the institute in this regard will be final and binding on the contractor/firm.
- 3.26 The Contractor/firm will adopt all safety measures /precautions while executing the work/supply. In case of any accident /causality of any personnel, involved in work/supply the complete responsibility will be borne by the contractor/firm himself and University will not be held responsible for any claim/compensation.

- 3.27 University may take clarification from bidder or any other and may take appropriate decision accordingly. The decision of University shall be final and binding to all.
- 3.28 NLU, Jodhpur does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected
- 3.29 The NLU, Jodhpur reserves its right to reject/accept any or reject all tenders at any time without assigning any reason thereof. It shall be without any liability towards the bidder.
- 3.30 The firm/contractor will adopt all safety measures /precautions while executing the work in relation to all material, equipment and accessories etc.University will not be responsible for any loss, theft, damage etc for any reason

## **4. COMMERCIAL TERMS & CONDITIONS:**

### **4.1 EARNEST MONEY:-**

**4.1.1 Firm/Contractor must submit the Earnest Money of Rs.65,000/-**, in the form of a Demand-draft issued by a Nationalized/Schedule Bank in favour of the Registrar, National Law University, Jodhpur payable at Jodhpur at the time of submission of tender documents. Earnest Money shall be refunded/adjusted against security deposit, if any, after award of work order, as the case may be.

4.1.2 In absence of earnest money, quotation of the firm shall not be entertained in any circumstances

**4.1.3.** In case of claim for exemption from deposit of Earnest money sufficient proof in support of claim for exemption of EMD as prescribed in Govt. of India Notification is to be attached with the bid.



4.1.4. The earnest money will be forfeited if the firm denies to deposit the security amount if found lowest and university shall have the right to debar the firm from participation in future tenders of the university for the time as decided by university authority.

## **4.2 Security Deposit:**

4.2.1 The successful bidder must deposit the Security amount @ 10% (Ten percent) of the ordered value with the Registrar, NLU, Jodhpur within the time frame provided in letter for depositing of security in shape of DEMAND DRAFT OR irrevocable Bank Guarantees or FDR of equivalent amount for a period of one year.

4.2.2 The security deposit would be forfeited, if the firm/contractor denies to execute the work or supply the ordered items as the case may be.

4.2.3 The security deposit would be forfeited, if the supplies are not made or work not done as per the Terms & Conditions of the purchase order/bid document.

4.2.4 The security deposit amount will be refunded after the period of one year without any interest.

## **4.3 Payment:**

4.3.1 **Payment will be made after satisfactorily completion of work as per specifications after submission of GST bill by the firm and after inspection and verification by a committee constituted by the University.**

4.3.2 In case supply /work is not found as per specifications of the University, whole supply/work shall be rejected.

## **4.4 PENALTY CLAUSE:-**

In case of delay in supply/execution of work without prejudice to the right to reject the bid, penalty should be imposed as decided by the competent authority.

However, if there is any hindrance/barrier in execution of work from University side, then relaxation will be granted without penalty as deemed fit.

## **35. Settlement of Dispute:**

5.1 All disputes pertaining to the work contract is limited to the jurisdiction of the courts at Jodhpur District, Rajasthan

5.2 Without prejudice to above, the parties reserve the right to enter into an Arbitration process in accordance with the relevant clause of Arbitration and Conciliation Act, 1996.

## **ACCEPTANCE**

I/We have carefully read and understood the above terms and conditions of the bid and agree to abide by them.

Annexure "A"  
**DECLARATION REGARDING BLACKLISTING/DEBARRING FOR**  
**TAKING PART IN TENDER**

(To be executed & attested by Public Notary/executive Magistrate on Rs 100/-non judicial stamp paper by the Tendered]

1. \* I/We \_\_\_\_\_ of  
M/s \_\_\_\_\_ hereby declare that our  
company \_\_\_\_\_ having registered address at  
\_\_\_\_\_  
\_\_\_\_\_ has never been 'Blacklisted/debarred by any State/Central  
Govt,Department/Organization till date nor we are facing/filed any Litigation  
proceeding regarding debarring (blacklisting) with either of the above said agencies.

**OR**

1. \* I/We \_\_\_\_\_ of  
M/s \_\_\_\_\_ hereby declare that our  
company \_\_\_\_\_ having registered address at  
\_\_\_\_\_  
\_\_\_\_\_ was blacklisted or debarred by State/ Central Govt,Department/Organization  
from taking part in tenders for a period of \_\_\_\_\_ years wef  
\_\_\_\_\_ to \_\_\_\_\_.the period is over on  
\_\_\_\_\_ and now the firm /company is entitled to take part in tenders.

2. In case of above information found false, I/we are fully aware that the tender/contract will be rejected/cancelled by National Law University, Jodhpur, and EMD/Security deposit shall be forfeited.
3. In addition to the above National Law University, Jodhpur will not be responsible to pay the bills for any completed /partially completed work/supply.

DEPONENT

ATTESTED:

(Public Notary/executive Magistrate)

NAME:- \_\_\_\_\_

Address: \_\_\_\_\_

**\*please strike out the non applicable para**

**Annexure”B”**

**TECHNICAL SPECIFICATION & BID**

s.no	Particulars	Qty	Unit	Consent Yes/no
1	Removing existing false ceiling of any type including disposal of unserviceable material and stacking of serviceable material with all lead and lift outside campus as directed by Engineer-in-charge.	304.71	Sqm	
2	Providing and fixing detachable Grid false ceiling comprising main runner size 38x24x0.30 mm ,cross runners 28x24x0.30 mm and wall angle size 24x24x0.4 mm unilock G.I. Power coated exposed “T” grid system suspended by means of G.I. wire 4 mm dia.with adjustable suspension system from the existiting ceiling by means of MS Rawl plugs 12.5 mm diax35 mmwith 6 mm dia bolts screw at 1220 mm c/c with 600x600x12 mm thick Detachable fine fishered mineral fibre ceiling tiles <b>(Approvedmake Armstrong/HuntorDuglos/Diamond/Anutone/GridSquare/USGBoral)</b> including cutting /making opening for services(i.e for light fixtures,Air Conditioner ducts etc.) in all respect as per directions of Engineer in charge.	304.71	Sqm	
3	Removing of existing installed electric items i.e. tublight,fan,bulb,etc and handed over to NLU	50.00	Each	
4	Dismantling Kota stone slab/tiles flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material with all lead.and lift as per direction EIC	382.75	Sqm	
5	P & F 1 <sup>st</sup> qualityVitrified Porcelain Polished tiles on floor, skirting and steps etc.in different sizes (thickness to be specified by manufactuer) with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colour and shade, laid with 20 mm thick CM 1 : 4 ,tiles fixing with 3 mm spacers including grouting the joints with matching pigment with chemicals etc complete.size 600 mm X 600 mm as per directions of Engineer in charge. <b>MAKE OF TILE:- Johnson/Somany/Kajaria/ Orient Bell</b>	418.98	Sqm	
6	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in : Cement mortar 1 : 6 (1 cement : 6 coarse sand) Brick should be used of fully burnt sand base brick.(1 <sup>st</sup> Class)	37.28	Cum	
7	Supply and fixing Jodhpur sand stone Machine cut Dash, Coping,sill,lintel fixed in cement sand mortar 1:4.15 cm (6”) thick	5.81	Sqm	
8	Supply and fixing Jodhpur sand stone Machine cut Dash, Coping,sill,lintel fixed in cement sand mortar 1:4.9 cm (3.5”) thick	16.72	Sqm	
9	Providing and applying white cement based putty over plastered surface to prepare the surface even and smooth complete New Plastered Surface (three or more coats)Make :-JK/Birla/Asian	414.71	Sqm	
10	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade including all scaffolding: Two or more coats on new work Make:- Berger/Asian /Nerolac/Birla	414.71	Sqm	
11	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade including all scaffolding: Old work (One or more coats ) with scraping of surface and given even finish to surface by putty Make:- Berger/Asian /Nerolac/Birla	267.55	Sqm	

12	Earth work in excavation by manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, with all lead and lift disposed earth to outside campus : All kinds of soil	33.96	Cum	
13	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering – All work up to plinth level. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	10.67	Cum	
14	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering – All work up to plinth level. M15 grade Nominal Mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	58.64	Cum	
15	P&F rigid PVC Pipe (IS:4985 mark) class II/ (4 Kg. /Cm2.) approved quality /make including joining the pipe with solvent cement rubber ring and lubricant.160 mm dia i/c required assesories i.e clip,bend,shoe,socket door bend etc all Make:- Finolex/Ashirwas/Supreme/Astral	176.78	Rmtr	
16	Anti-termite treatment of existing floor and wall using Imidacloprid 30.5% EC non repellent, odorless, low dose, environmentally safe Termiticide with rapid action non corrosive stain free, by injecting the emulsion as per specification and plugging with cement mortar 1:2 ( 1 cement : 2 coarse sand) in the whole floor area. The pesticide emulsion of imidacloprid 30.5% EC mixed with water in the ration of 1:474 will be pumped by a motorized spray pump specified manner. The net floor and wall area treated will be measured for payment.	304.71	Sqm	
17	Construction of chamber in all type of soil with 230 mm thick brick masonry in CM 1:6 m,10 cm thick C.C. 1:5:10 in foundation, 20mm thick insider plaster in Cm 1:6, finished with floating neat cement, 50mm thick M-15 grade C.C. flooring , earthwork etc. complete as per design including disposal of surplus earth outside campus.	6.00	Each	
18	Supplying and Filling in plinth with balu sand under floors including watering ramming consolidating ,compaction,transportation and dressing complete including cost of sand as per directions of Engineer in charge.	101.88	Cum	
19	Removing existing alumiium work i/c wooden board,glass glazing,fittings etc. all with all height including disposal of wooden board/ply only outside campus and stacking of serviceable material as per direction of Engineer in charge.	345.59	Sqm	
20	Dismantling stone masonry for opening of window of size 6'.X5' and fixing lintel of jodhpur white sand stone with rock face in elevation and repair jambs of wall including T&P as per direction EIC	12.00	Nos	
21	Removing iron window and handed over to NLU and to be place at location as per direction of engineer in charge i/c patch repair jambs,lintel sills of window in CM (1:3)	3.00	Nos	
22	Demolishing cement concrete manually/ by mechanical means including disposal of material outside campus i/c all lead and lift as per direction of Engineer-in-charge. 1: 3: 6 or richer mix.	52.07	Cum	

23	Providing & Laying C.C. 1:5:10 (Stone aggregate 40mm nominal size) upto haunches of S.W. pipes including 150 mm thick bed concrete (Width W= Dia of pipe in Cm+ 30Cm.) concrete width to be reduced from width W at center of pipe to '0' at top of pipe. (Excluding cost of pipe)150mm dia S.W. pipe	18.58	Rmtr	
24	Providing and fixing Powder coating aluminum work (both fixed and openable with minimum thickness of powder coating 50 micron) for doors ,windows, ventilators and partition with extruded built up standard tubular / appropriate Z sections and other sections of approved make i.e <b>Jindal /Hindalco</b> fixed with rawl plugs and screws or with fixing clips ,or with expansion hold fasteners including necessary filling up of gap. At junctions , at top ,bottom and sides with required PVC/neoprene felt etc. Aluminium section shall be smooth ,rust free, straight ,mitered and jointed mechanically wherever required including cleat angle Aluminium snap beading for glazing /paneling , C.P. brass/ stainless steel screws Al. Tower bolt & Al. handle & Al. Aldrop etc.,all complete as per architectural drawings and the directions of Engineer- in – charge .(Glazing and paneling to be paid for separately).	500.00	Kg	
25	Providing and fixing glazing in aluminium door, window ,ventilator shutters and partitions etc. with PVS / 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 black glass panes of 5.0 mm thickness ( weight not less than 10.0 kg/sqm) as per direction EIC	67.00	Sqm	
26	Providing and fixing Granite stone slab mirror polished and machine edge cut in walls, pillars, steps, Shelves, Sills Counters, Floors etc. laid on 12mm (Av.) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) jointing with white cement mortar 1:2 (1white cement : 2 marble dust) with pigment to match the shade of the marble slab including grinding, rubbing and polishing complete Rajasthan Black.Above 3601 Cm <sup>2</sup> Slabs i/c providing edge moulding wherever required and machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Full Edge moulding	14.86	Sqm	
27	Kota stone slab flooring 25 mm thick over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)For area of each slab from 2001 to 5000 Sq.Cm	74.32	Sqm	
28	Providing & laying machine moulded polished chequered precast cement concrete tiles of approved make 20mm to 22mm thick with marble chips of size upto 6mm, in floors, jointed with neat cement slurry mixed wit pigment to match the shade of tiles in 20 mm thick bed of C.M. 1:4 :shade and pattern as per direction EIC	49.05	Sqm	
29	Making of hole in R.C.C. slab/wall/beams and masonry wall (width up to 450 mm) complete as per direction of EIC ,diameter above 150mm	8.00	Each	
30	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes (IS 15778 : 2007 code) having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c	103.00	Rmtr	

	fixing the pipe with clamps at 1 metre spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Internal work Exposed/concelled on wall)20mm nominal size Make:- Finolex/Ashirwad/Astral/Supreme			
31	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish :20mm thick.	414.71	Sqm	
32	Half brick masonry in foundation & plinth/superstructure using bricks of designation 75 Cement mortar 1 : 3 (1 cement : 3 coarse sand) Brick should be used of fully burnt sand base brick.(1 <sup>st</sup> Class)	73.61	Sqm	
33	Providing and fixing 1 <sup>st</sup> quality MAT & GLOSSY finished ceramic tile confirming to IS : 13755 and IS : 15622 colour such as white, grey, ivory, fume red brown, light green, light blue and other light shades in floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (including the cost of cement mortar bed 1:4).Size 300mm x 450mm/300X300 Shade and colour as per direction of Engineer in charge. Make:- Johnson/Somany/Kajaria/ Asian/Orient Bell	73.21	Sqm	
34	Credit to work i.e aluminium work (aluminium sections,gates,glazing,beeding) from dismantled material Aluminium work	600	Kg.	
35	Credit to work glazing work (glass 4/5MM) from dismantled material (Glazing work)	90	Sqm	
36	Removing existing wooden/aluminium work station (28 nos) of 4 to 5 feet height including stacking of serviceable item i.e aluminium and disposal of wooden material outside campus as per direction of EIC.	01	Each	
37	Providing and fixing <b>Single piece Type European camode</b> ,colour and <b>sample to be approved by competent authority of university including cost of flush tank,and all accessories</b> .Make:- Jaquar	02		
38	Providing & fixing PVC SWR pipe 110 mm of class A having pressure 4.0 Kg/cm <sup>2</sup> .Make:- Finolex/Kissan/Ashirvad including all fittings req i.e Tee,bend,shoe ,socket,clips ,all accessories etc.	30.0	Mtr	
39	Providing and fixing <b>table top wash basin of size 20"x16"x9"</b> ,color and <b>sample to be approved by competent authority of university including cost of pvc connection pipes,coupling etc</b> .Make:- Jaquar	02	Each	
40	Providing & fixing steel sink of size 36"x18"x9" with sink coupling,waste pipe etc.Make:- NIRALI	02	Each	
41	Providing and fixing C.P. brass angle valve (Round head)for basin mixer and geyser points of approved quality conforming to IS:8931 (15mm nominal bore)Make:- Jaquar	10	Each	
42	Providing and fixing C.P. brass long body bib cock (Round head) of approved quality conforming to IS:8931 : (15 mm nominal bore) .Make:- Jaquar	04	Each	
43	Providing and fixing SWAN NECK bib cock of approved quality conforming to IS:8931 : (15 mm nominal bore) Make:- Jaquar	02	Each	

44	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes (IS 15778 : 2007 code) having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1 metre spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (external work )40mm nominal size including excavation work needed . Make:- Finolex/Ashirwad/Astral/Supreme	30.0	Mtr	
45	Providing and fixing 304 grade wire mesh in aluminium door, window ,ventilator shutters and partitions etc. with PVS / 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.)	67.00	sqm	
46	Providing and fixing aluminium grill of size 50x50x6 mm in aluminium door, window ,ventilator shutters and partitions etc. complete as per the architectural drawings and the directions of engineer-in-charge.	67.00	sqm	
47	Wiring of 3/5pin 6amp.Light plug point with1.5sq.mm nominal size FRPVC insulated unsheathed flexible copper conductor1.1kVgrade and1.5 sq.mm nominal size FRPVC insulated unsheathed flexible copper earth conductor 1.1kVgrade(IS:694) in recessed ISI marked MMS ( IS:9537 P-III ) PVC conduit & it's ISI marked (IS:3419 1988) accessories,Hot Dipped Galvanized Modular boxof1.2mm thick with earth terminal,10A modular Modular face plate with grid plate, screws,makingconnections,testing etc. as required.			
	On board	15	P.Point	
48	S&F following sizes(dia.)of ISI marked virgin material MMS(IS:9537P III )PVC conduit along with ISI marked (IS:3419-1988) accessoriesas required in recess including cutting the wall, covering conduit and making good the same as required.			
i	20 mm	40	Mtr	
ii	25 mm	60	Mtr	
49	Supplying and fixing of power plug point Modular accessories on hot dipped galvanized modular box of 20 SWG on surface or in recessed with suitable size of grid plate with cover plate including cost of modular 16 amp. Switch and socket outlet , making connection , testing , etc. as required.	25	P.Point	
50	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor as per PWD specification for electrical Works with ISI marked(IS:694)and as per IS8130:2013 of 1.1kVgrade.Wire should be made from 99.90% purity copper, class5 stranding inacc. to IS:8130/IEC60228 for lower wattloss,oxygen freefo less chances of oxidization, insulation PVC typeA/C/D , flame retardant as per IS 10810-53, better amperage rating as per IS:3961part5, inexisting surface or recessed PVC/ MS conduit/casing capping making connectionswith Copper Lugs of suitable size,Ferrules,testingetc.as required.			
i	3 x 1.5 Sqmm	300	Mtr	
ii	2 x 2.5 sqmm + 1 x 1.5 sqmm	150	Mtr	
iii	2 x 4.0 sq. mm. + 1x1.5sqmm	100	Mtr	
iv	4 x 6.0 sq. mm. + 1 x 2.5 sq. mm.	40	Mtr	
51	Providing & Fixing of 240/415 V AC MCB with positive isolation of 10 kA breaking capacity (B/ C/D tripping characteristic as per type of load and site requirement) 4 KV impulse withstand voltage,			

	ISI marked IS 8828(1996) / conforming to IEC 60898-1 2002, IEC 60947- 2, low watt losses, trip free mechanism , energy limiting of class 3 as per IEC, minimum phase termination capacity of 35sq.mm. , conductor line load reversibility , IP 20 contact protection and fitted in existing distribution board/sheets, minimum electrical operation 20,000 upto 20 A rating and 10,000 upto 63 A, 5000 for 80 A & above rating including making connections, testing etc. as required.			
i	<b>Single pole MCB (With B/C curve tripping Characteristics) 6 A to 32 A rating</b>	24	EACH	
	<b>Four pole MCB (With B/C curve tripping Characteristics)</b>			
ii	50/63 A rating	2	EACH	
52	Providing & Fixing of Recessed/surface mounting heavy duty horizontal type DoubleDoor (Metal / Glazed) Distribution board made out from Galvanized steel /CRCAsheet not less than 1.2mm thick conforming to IS-8623-1&3 / IEC 61439-1&3, powder painted complete with reversible door (for double door DB only) 100amp. insulated copper busbar/shorting link , copper neutral link, copper earth link , color coded interconnecting wire set of suitable rating and in bar, masking sheet, making internal DB terminations with copper lugs, Ferrules, detachable gland plate, including making connections, testing etc. as required.			
	<b>Metal door (Three phase) IK-09 and IP-43</b>			
	4 Way	2	EACH	
53	Providing & Laying P.V.C. / XLPE insulated & P.V.C. sheathed Armoured Aluminium cable conforming to IS:1554 P-I / IS :7098 P - I of 1.1 KV with H4- Grade electrolytic aluminium conductor conforming to IS 8130 of purity >99.6 %, round / flat strip armouring of cables, Inner / outer sheath conforming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray(with cable tie) including testing etc. as required of following size. OEM must have it's own in house NABL accredited Laboratory for testing procedure as per IS:10810. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR			
	35.0 Sq. mm 3.5 core	30	R.mtr	
54	Supply, Drawing and Testing of 4 pair, 23 AWG Solid Bare Copper wire insulated with PVC, UTP (Unshielded Twisted Pair), Category 6, Class E, 100 Ohm Impedance, Indoor Cable as per latest amendments of ANSI/TIA/EIA-568 , The copper conductors should be balanced twisted in pairs, separated by a cross-member fluted pair divider & protected by PVC Jacket. Certified performance in a 4-connector configuration upto 100 Mtrs channel requirements & transmission frequencies up to 250 Mhz. in existing MS/PVC Conduits/casing capping including making connections to Information outlets and Patch Panels with jack & ferruling at both ends for identification with necessary tools for punching, stripping, crimping and testing etc as required complete in all respect. All as per pre approved by Engineer in charge.	150	R.mtr	
55	Providing & Fixing of modular type switch/bell push duty ISI marked (IS :3854) with CM/L no. printed and made out of unbreakable and fire retardant virgin UV Stabilized Polycarbonate			



	withbrass terminals and captive screws & silver alloy contact tip withIP-20rating,minimum width of switch toggle(PUSHPART)should not less then20mm, including allas perpre approved by Engineer incharge,makingconnections,testingetc.as required.			
i	32 Amp. 2 Module switch With Indicator	14	EACH	
ii	13 A flat pin English socket	12	EACH	
iii	RJ-45, Cat 6 computer jack with shutter	4	EACH	
56	Providing & Fixing of Wall mounting / Pedestal type Heavy duty Air Circulator , Double ball bearing and with metal sturdymesh guard Aluminium alloy one piece blade and conforming to IS:2997, including fixing with anchor bolts, making connection testing etc.as required.All as per pre approved by Engineer in charge.			
	400 mm Sweep oscillaing type	10	EACH	
57	Providing & Fixing of energy efficient direct fit (Retrofit) Polycarbonate/ Glass housing SMDMidPower LED tube rod (with integral driver & alumn. heat sink ), on existing fixture. system lumen efficacy $\geq 100$ lm/Watt output, internal surge protection of 2.5 KV ,THD < 20% ,p.f. $\geq 0.95$ ,CRI >80 , life time of minimum 35000 Burning Hours with , 70% of intial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , maximum power consumption should not more than the specified rating and Fixture shall be of BIS standard and trade mark certificate ( T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79 & LM80)certificate / Report from OEM shall be submitted. All as per pre approved by Engineer in charge.			
	1200mm , Min. Lumens output 2000 lm LED Tube rod with Polycarbonate Housing	14	EACH	
58	P & F of 36 Watt IP 20 LED 2'x2' fixture, Recessed / surface type, having efficacy of not less than 100 lumen / watt, made out from CRCA housing and with high purity / transmissivity duffuser for uniform light distribution high efficiency driver electronics and in compliance to IEC standard (integral with light fixture), life time of more than 50000 burning hours, CCT 6000K (minimum), CRI>80 driver maintaining PF>0.9	32	EACH	
59	SITC of Interconnecting refrigerant copper pipe for split/Ductable/ Casseette AC of DHE Grade C12200- ASTM B68, B75, chemical composition of copper %- 99.0 Min and Phosphorus %- 0.015 to 0.040 . For Annealed copper tube :- Tensile strength = 210 Mpa wih elongation % = 40 Min . Ink Mark Brand Printing on Hard Tubes should be present. Piping between each set of indoor & outdoor units of different sizes as per OEM requirement & specifications including class 'O' Nitrile rubber sleeves, chase cutting, supports, making good the same with sand cement plaster etc. as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .	18	KG	
60	Providing & Fixing of IS : 4985 - 2000 Class -4 (10 Kgf / Sqcm) UPVC drain water piping with fittings (IS:7834 & 10Kgf/sqcm)			

	like elbow, socket, Tee, solvent cement jointing, support with MS hanger on ceiling or recessed in wall with chasing & plastering with 6 mm thick closed cell elastomeric nitrile rubber insulation including leakage testing etc. as required of following Nominal sizes. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .			
	20 mm	60	mtr	
61	Making hole in stone masonry/ RCC wall/ RCC slab with core cutter for accomodating refrigerant pipe/ drain pipe/ MS pipe/ cables etc of following dia			
	50 mm to 100 mm Dia	16	Each	

## ANNEXURE”C”

### FINANCIAL BID

S.no	Item	Qty	unit	Price per unit		Total Amount	
				Rate in figures	Rate in words	Rate in figures	Rate in words
1	Removing existing false ceiling of any type including disposal of unserviceable material and stacking of serviceable material with all lead and lift outside campus as directed by Engineer-in-charge.	304.71	Sqm				
2	Providing and fixing detechnable Grid false ceiling comprising main runner size 38x24x0.30 mm ,cross runners 28x24x0.30 mm and wall angle size 24x24x0.4 mm unilock G.I. Power coated exposed “T” grid system suspended by means of G.I. wire 4 mm dia.with adjustable suspension system from the existiting ceiling by means of MS Rawl plugs 12.5 mm diax35 mmwith 6 mm dia bolts screw at 1220 mm c/c with 600x600x12 mm thick Detachable fine fishered mineral fibre ceiling tiles <b>(Approvedmake Armstrong/HuntorDuglos/Diamond/Anutone/GridSquare/USGBoral)</b> including cutting /making opening for services(i.e for light fixtures,Air Conditioner ducts etc.) in all respect as per directions of Engineer in charge.	304.71	Sqm				
3	Removing of existing installed electric items i.e. tublight,fan,bulb,etc and handed over to NLU	50.00	Each				
4	Dismantling Kota stone slab/tiles flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material with all lead.and lift as per	382.75	Sqm				

	direction EIC						
5	P & F 1 <sup>st</sup> qualityVitrified Porcelain Polished tiles on floor, skirting and steps etc.in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colour and shade, laid with 20 mm thick CM 1 : 4 ,tiles fixing with 3 mm spacers including grouting the joints with matching pigment with chemicals etc complete.size 600 mm X 600 mm as per directions of Engineer in charge. MAKE OF TILE:- <b>Johnson/Somany/Kajaria/Orient Bell</b>	418.98	Sqm				
6	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in : Cement mortar 1 : 6 (1 cement : 6 coarse sand) Brick should be used of fully burnt sand base brick.(1 <sup>st</sup> Class)	37.28	Cum				
7	Supply and fixing Jodhpur sand stone Machine cut Dash, Coping,sill,lintel fixed in cement sand mortar 1:4.15 cm (6") thick	5.81	Sqm				
8	Supply and fixing Jodhpur sand stone Machine cut Dash, Coping,sill,lintel fixed in cement sand mortar 1:4.9 cm (3.5") thick	16.72	Sqm				
9	Providing and applying white cement based putty over plastered surface to prepare the surface even and smooth complete New Plastered Surface (three or more coats)Make :-JK/Birla/Asian	414.71	Sqm				
10	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade including all scaffolding: Two or more coats on new work Make:- Berger/Asian /Nerolac/Birla	414.71	Sqm				
11	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade including	267.55	Sqm				

	all scaffolding: Old work (One or more coats ) with scraping of surface and given even finish to surface by putty Make:- Berger/Asian /Nerolac/Birla						
12	Earth work in excavation by manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, with all lead and lift disposed earth to outside campus : All kinds of soil	33.96	Cum				
13	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering – All work up to plinth level. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	10.67	Cum				
14	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering – All work up to plinth level. M15 grade Nominal Mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	58.64	Cum				
15	P&F rigid PVC Pipe (IS:4985 mark) class II/ (4 Kg. /Cm2.) approved quality /make including joining the pipe with solvent cement rubber ring and lubricant.160 mm dia i/c required assesories i.e clip,bend,shoe,socket door bend etc all Make:- Finolex/Ashirwas/Supreme/Astral	176.78	Rmtr				
16	Anti-termite treatment of existing floor and wall using Imidacloprid 30.5% EC non repellent, odorless, low dose, environmentally safe Termiticide with rapid action non corrosive stain free, by injecting the emulsion as per specification and plugging with cement mortar 1:2 ( 1 cement : 2 coarse sand) in the whole floor area. The	304.71	Sqm				

	pesticide emulsion of imidacloprid 30.5% EC mixed with water in the ration of 1:474 will be pumped by a motorized spray pump specified manner. The net floor and wall area treated will be measured for payment.						
17	Construction of chamber in all type of soil with 230 mm thick brick masonry in CM 1:6 m,10 cm thick C.C. 1:5:10 in foundation, 20mm thick insider plaster in Cm 1:6, finished with floating neat cement, 50mm thick M-15 grade C.C. flooring , earthwork etc. complete as per design including disposal of surplus earth outside campus.	6.00	Each				
18	Supplying and Filling in plinth with balu sand under floors including watering ramming consolidating ,compaction,transportation and dressing complete including cost of sand as per directions of Engineer in charge.	101.88	Cum				
19	Removing existing alumiium work i/c wooden board,glass glazing,fittings etc. all with all height including disposal of wooden board/ply only outside campus and stacking of serviceable material as per direction of Engineer in charge.	345.59	Sqm				
20	Dismantling stone masonry for opening of window of size 6'.X5' and fixing lintel of jodhpur white sand stone with rock face in elevation and repair jambs of wall including T&P as per direction EIC	12.00	Nos				
21	Removing iron window and handed over to NLU and to be place at location as per direction of engineer in charge i/c patch repair jambs,lintel sills of window in CM (1:3)	3.00	Nos				
22	Demolishing cement concrete manually/ by mechanical means including disposal of material outside campus i/c all lead and lift as per direction of Engineer-in-	52.07	Cum				

	charge. 1: 3: 6 or richer mix.						
23	Providing & Laying C.C. 1:5:10 (Stone aggregate 40mm nominal size) upto haunches of S.W. pipes including 150 mm thick bed concrete (Width W= Dia of pipe in Cm+ 30Cm.) concrete width to be reduced from width W at center of pipe to '0' at top of pipe. (Excluding cost of pipe)150mm dia S.W. pipe	18.58	Rmtr				
24	Providing and fixing Powder coating aluminum work (both fixed and openable with minimum thickness of powder coating 50 micron) for doors ,windows, ventilators and partition with extruded built up standard tubular / appropriate Z sections and other sections of approved make i.e <b>Jindal /Hindalco</b> fixed with rawl plugs and screws or with fixing clips ,or with expansion hold fasteners including necessary filling up of gap. At junctions , at top ,bottom and sides with required PVC/neoprene felt etc. Aluminium section shall be smooth ,rust free, straight ,mitered and jointed mechanically wherever required including cleat angle Aluminium snap beading for glazing /paneling , C.P. brass/ stainless steel screws Al. Tower bolt & Al. handle & Al. Aldrop etc.,all complete as per architectural drawings and the directions of Engineer- in - charge .(Glazing and paneling to be paid for separately).	500.00	Kg				
25	Providing and fixing glazing in aluminium door, window ,ventilator shutters and partitions etc. with PVS / 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 black glass panes of 5.0 mm thickness ( weight not less than 10.0 kg/sqm) as per	67.00	Sqm				

	direction EIC						
26	Providing and fixing Granite stone slab mirror polished and machine edge cut in walls, pillars, steps, Shelves, Sills Counters, Floors etc. laid on 12mm (Av.) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) jointing with white cement mortar 1:2 (1white cement : 2 marble dust) with pigment to match the shade of the marble slab including grinding, rubbing and polishing complete Rajasthan Black.Above 3601 Cm2 Slabs i/c providing edge moulding wherever required and machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Full Edge moulding	14.86	Sqm				
27	Kota stone slab flooring 25 mm thick over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)For area of each slab from 2001 to 5000 Sq.Cm	74.32	Sqm				
28	Providing & laying machine moulded polished chequered precast cement concrete tiles of approved make 20mm to 22mm thick with marble chips of size upto 6mm, in floors, jointed with neat cement slurry mixed with pigment to match the shade of tiles in 20 mm thick bed of C.M. 1:4 :shade and pattern as per direction EIC	49.05	Sqm				
29	Making of hole in R.C.C. slab/wall/beams and masonry wall (width up to 450 mm) complete as per direction of EIC ,diameter above 150mm	8.00	Each				
30	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes (IS 15778 : 2007 code) having thermal stability for hot & cold water supply including all CPVC plain & brass	103.00	Rmtr				



	threaded fittings i/c fixing the pipe with clamps at 1 metre spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Internal work Exposed/concelled on wall)20mm nominal size Make:- Finolex/Ashirwad/Astral/Supreme					
31	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish :20mm thick.	414.71	Sqm			
32	Half brick masonry in foundation & plinth/superstructure using bricks of designation 75 Cement mortar 1 : 3 (1 cement : 3 coarse sand) Brick should be used of fully burnt sand base brick.(1 <sup>st</sup> Class)	73.61	Sqm			
33	Providing and fixing 1 <sup>st</sup> quality MAT & GLOSSY finished ceramic tile confirming to IS : 13755 and IS : 15622 colour such as white, grey, ivory, fume red brown, light green, light blue and other light shades in floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (including the cost of cement mortar bed 1:4).Size 300mm x 450mm/300X300 Shade and colour as per direction of Engineer in charge. Make:- Johnson/Somany/Kajaria/ Asian/Orient Bell	73.21	Sqm			
34	Credit to work i.e aluminium work (aluminium sections,gates,glazing,beeding ) from dismantled material Aluminium work	600	Kg.			
35	Credit to work glazing work (glass 4/5MM) from dismantled material (Glazing work)	90	Sqm			
36	Removing existing wooden/aluminium work station (28 nos) of 4 to 5 feet	01	Each			

	height including stacking of serviceable item i.e aluminium and disposal of wooden material outside campus as per direction of EIC.						
37	Providing and fixing <b>Single piece Type European camode</b> ,colour and <b>sample to be approved by competent authority of university including cost of flush tank,and all accessories</b> .Make:- Jaquar	02					
38	Providing & fixing PVC SWR pipe 110 mm of class A having pressure 4.0 Kg/cm2.Make:- Finolex/Kissan/Ashirvad including all fittings req i.e Tee,bend,shoe ,socket,clips ,all accessories etc.	30.0	Mtr				
39	Providing and fixing <b>table top wash basin of size 20"x16"x9"</b> ,color and <b>sample to be approved by competent authority of university including cost of pvc connection pipes,coupling etc</b> .Make:- Jaquar	02	Each				
40	Providing & fixing steel sink of size 36"x18"x9" with sink coupling,waste pipe etc.Make:- NIRALI	02	Each				
41	Providing and fixing C.P. brass angle valve (Round head)for basin mixer and geyser points of approved quality conforming to IS:8931 (15mm nominal bore)Make:- Jaquar	10	Each				
42	Providing and fixing C.P. brass long body bib cock (Round head) of approved quality conforming to IS:8931 : (15 mm nominal bore) .Make:- Jaquar	04	Each				
43	Providing and fixing SWAN NECK bib cock of approved quality conforming to IS:8931 : (15 mm nominal bore) Make:- Jaquar	02	Each				
44	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes (IS 15778 : 2007 code) having thermal stability for hot & cold water supply including all CPVC plain & brass	30.0	Mtr				

	threaded fittings i/c fixing the pipe with clamps at 1 metre spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (external work )40mm nominal size including excavation work needed . Make:- Finolex/Ashirwad/Astral/Supreme						
45	Providing and fixing 304 grade wire mesh in aluminium door, window ,ventilator shutters and partitions etc. with PVS / 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.)	67.00	sqm				
46	Providing and fixing aluminium grill of size 50x50x6 mm in aluminium door, window ,ventilator shutters and partitions etc. complete as per the architectural drawings and the directions of engineer-in-charge.	67.00	sqm				
47	Wiring of 3/5pin 6amp.Light plug point with1.5sq.mm nominal size FRPVC insulated unsheathed flexible copper conductor1.1kVgrade and1.5 sq.mm nominal size FRPVC insulated unsheathed flexible copperearth conductor 1.1kVgrade(IS:694) in recessed ISI marked MMS ( IS:9537 P-III ) PVC conduit & it's ISI marked (IS:3419 1988) accessories,Hot Dipped Galvanized Modular boxof1.2mm thick with earth terminal,10A modular Modular face plate with grid plate, screws,makingconnections, testing etc. as required.						
	On board	15	P.Poin				

			t				
48	S&F following sizes(dia.)of ISI marked virgin material MMS(IS:9537P III )PVC conduit along with ISI marked (IS:3419-1988) accessories as required in recess including cutting the wall, covering conduit and making good the same as required.						
i	20 mm	40	Mtr				
ii	25 mm	60	Mtr				
49	Supplying and fixing of power plug point Modular accessories on hot dipped galvanized modular box of 20 SWG on surface or in recessed with suitable size of grid plate with cover plate including cost of modular 16 amp. Switch and socket outlet , making connection , testing , etc. as required.	25	P.Poin t				
50	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor as per PWD specification for electrical Works with ISI marked(IS:694)and as per IS8130:2013 of 1.1kV grade. Wire should be made from 99.90% purity copper, class5 stranding inacc. to IS:8130/IEC60228 for lower wattloss,oxygen free fo less chances of oxidization, insulation PVC typeA/C/D , flame retardant as per IS 10810-53, better amperage rating as per IS:3961part5, inexisting surface or recessed PVC/ MS conduit/casing capping making connections with Copper Lugs of suitable size, Ferrules, testin getc.as required.						
i	3 x 1.5 Sqmm	300	Mtr				
ii	2 x 2.5 sqmm + 1 x 1.5	150	Mtr				

	sqmm						
iii	2 x 4.0 sq. mm. + 1x1.5sqmm	100	Mtr				
iv	4 x 6.0 sq. mm. + 1 x 2.5 sq. mm.	40	Mtr				
51	Providing & Fixing of 240/415 V AC MCB with positive isolation of 10 kA breaking capacity (B/ C/D tripping characteristic as per type of load and site requirement) 4 KV impulse withstand voltage, ISI marked IS 8828(1996) / conforming to IEC 60898- 1 2002, IEC 60947- 2, low watt losses, trip free mechanisum , energy limiting of class 3 as per IEC, minimum phase termination capacity of 35sq.mm. , conductor line load reversibility , IP 20 contact protection and fitted in existing distribution board/sheets, minimum electrical operation 20,000 upto 20 A rating and 10,000 upto 63 A, 5000 for 80 A & above rating including making connections, testing etc. as required.						
i	<b>Single pole MCB (With B/C curve tripping Characteristics)</b> 6 A to 32 A rating	24	EACH				
	<b>Four pole MCB (With B/C curve tripping Characteristics)</b>						
ii	50/63 A rating	2	EACH				
52	Providing & Fixing of Recessed/surface mounting heavy duty horizontal type DoubleDoor (Metal / Glazed) Distribution board made out from Galvanized steel /CRCAsheet not less then1.2mm thick conforming to IS-8623- 1&3 / IEC 61439- 1&3,powder painted complete with reversible door (for double door DB only)100amp. insulated						

	copper busbar/shorting link , copper neutral link, copper earth link , color coded interconnecting wire set of suitable rating and in bar, masking sheet, making internal DB terminations with copper lug s, Ferrules, detachable gland plate, including making connections, testing etc. as required.						
	<b>Metal door (Three phase) IK-09 and IP-43</b>						
	4 Way	2	EACH				
53	Providing & Laying P.V.C. / XLPE insulated & P.V.C. sheathed Armoured Aluminium cable confirming to IS:1554 P-I / IS :7098 P - I of 1.1 KV with H4- Grade electrolytic aluminium conductor confirming to IS 8130 of purity >99.6 %, round / flat strip armouring of cables, Inner / outer sheath confirming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray(with cable tie) including testing etc. as required of following size. OEM must have it's own in house NABL accredited Laboratory for testing procedure as per IS:10810. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR						
	35.0 Sq. mm 3.5 core	30	R.mtr				
54	Supply, Drawing and Testing of 4 pair, 23 AWG Solid Bare Copper wire insulated with PVC, UTP (Unshielded Twisted Pair), Category 6, Class E, 100 Ohm Impedance, Indoor Cable as per latest ammendments of ANSI/TIA/EIA-568 , The copper conductors should	150	R.mtr				

	<p>be balanced twisted in pairs, seperated by a cross-member fluted pair divider &amp; protected by PVC Jacket. Certified performance in a 4-connector configuration upto 100 Mtrs channel requirements &amp; transmission frequencies up to 250 Mhz. in existing MS/PVC Conduits/casing capping including making connections to Information outlets and Patch Panels with jack &amp; ferruling at both ends for identification with necessary tools for punching, stripping, crimping and testing etc as required complete in all respect. All as per pre approved by Engineer in charge.</p>						
55	<p>Providing &amp; Fixing of modular typeswitch/bell pushduly ISImarked(IS :3854) with CM/L no. printed andmade out of unbreakable and fire retardant vergin UV Stabilized Polycarbonate withbrass terminals and captive screws &amp; silver alloy contact tip withIP-20rating,minimum width of switch toggle(PUSHPART)should not less then20mm, including allas perpre approved by Engineer incharge,makingconnectio ns,testingetc.as required.</p>						
i	32 Amp. 2 Module switch With Indicator	14	EACH				
ii	13 A flat pin English socket	12	EACH				
iii	RJ-45, Cat 6 computer jack with shutter	4	EACH				
56	<p>Providing &amp; Fixing of Wall mounting / Pedestal type Heavy duty Air Circulator , Double ball bearing and with metal sturdymesh guard</p>						

	Aluminium alloy one piece blade and conforming to IS:2997, including fixing with anchor bolts, making connection testing etc.as required.All as per pre approved by Engineer in charge.						
	400 mm Sweep oscillating type	10	EACH				
57	Providing & Fixing of energy efficient direct fit (Retrofit) Polycarbonate/ Glass housing SMD Mid Power LED tube rod (with integral driver & alum. heat sink ), on existing fixture. system lumen efficacy $\geq 100$ lm/Watt output, internal surge protection of 2.5 KV , THD < 20% , p.f. $\geq 0.95$ , CRI > 80 , life time of minimum 35000 Burning Hours with , 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin) , maximum power consumption should not more than the specified rating and Fixture shall be of BIS standard and trade mark certificate ( T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79 & LM80) certificate / Report from OEM shall be submitted. All as per pre approved by Engineer in charge.						
	1200mm , Min. Lumens output 2000 lm LED Tube rod with Polycarbonate Housing	14	EACH				
58	P & F of 36 Watt IP 20 LED 2'x2' fixture, Recessed / surface type,	32	EACH				



	having efficacy of not less than 100 lumen / watt, made out from CRCA housing and with high purity / transmissivity diffuser for uniform light distribution high efficiency driver electronics and in compliance to IEC standard (integral with light fixture), life time of more than 50000 burning hours, CCT 6000K (minimum), CRI>80 driver maintaining PF>0.9						
59	SITC of Interconnecting refrigerant copper pipe for split/Ductable/ Casseette AC of DHE Grade C12200- ASTM B68, B75, chemical composition of copper %- 99.0 Min and Phosphorus %- 0.015 to 0.040 . For Annealed copper tube :- Tensile strength = 210 Mpa with elongation % = 40 Min . Ink Mark Brand Printing on Hard Tubes should be present. Piping between each set of indoor & outdoor units of different sizes as per OEM requirement & specifications including class 'O' Nitrile rubber sleeves, chase cutting, supports, making good the same with sand cement plaster etc. as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .	18	KG				
60	Providing & Fixing of IS : 4985 - 2000 Class -4 (10 Kg/ Sqcm) UPVC drain water piping with fittings (IS:7834 & 10Kg/sqcm) like elbow, socket, Tee, solvent cement jointing,						

	support with MS hanger on ceiling or recessed in wall with chasing & plastering with 6 mm thick closed cell elastomeric nitrile rubber insulation including leakage testing etc. as required of following Nominal sizes. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .						
	20 mm	60	mtr				
61	Making hole in stone masonry/ RCC wall/ RCC slab with core cutter for accomodating refrigerant pipe/ drain pipe/ MS pipe/ cables etc of following dia						
i	50 mm to 100 mm Dia	16	Each				
					<b>TOTAL</b>		
					<b>TAX</b>		
					<b>G.Total</b>		