



भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA  
TRICHY AIRPORT



No: AAI/SR/TRY/PROJ/MISC. CIVIL WORKS/WO/2023-24/1109

Date: 16-11-2023

To

**M/s. ALU Structure,**  
No 23 B Alapkkam Main Road  
Madhuravoyal, Chennai - 600 095.  
Mobile: +91 94431 44170  
Landline: 91 - 044 - 23783477  
Email: alustructure121@yahoo.com.

Name of Work: Miscellaneous Civil Works for NITB at Trichy Airport.

(Tender ID: 2023\_AAI\_170727\_1).

Ref : Your e-tender (Financial Bid) opened through CPP portal on 07-11-2023.

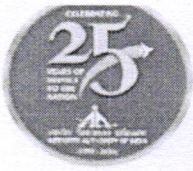
Dear Sir(s),

1. Your Percentage rated e-tender for the work mentioned above is hereby accepted on behalf of chairman, Airports Authority of India, at the rate of (-)10.81 % (Minus Ten Decimal Eight One Percentage only) quoted by you on CPWD DSR 2021 Rates & Additional Miscellaneous items as mentioned in your Price BOQ. Estimated cost is Rs.4,08,00,000/- (Rupees Four Crores Eight Lakhs Only) Excluding GST.
2. Joint General Manager (Engg-Str/Civil) Project, Airports Authority of India, Trichy International Airport, Trichy – 620007 shall be the Engineer-In-Charge of the work. You are requested to attend the office of Joint General Manager (Engg-Str/Civil) - Project by 06-12-2023 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100/- (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.
3. Please deposit Rs.40,80,000/- (Rupees Forty Lakhs Eighty Thousand Only) towards security deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per condition of Clause 1 A of Contract on Page No.36 of Tender document.
4. You are requested to comply with the provisions of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) central rules 1971, Child labour (Prohibition & Regulation) Act 1986, Construction workers (Regulation of Employment and Conditions of Service) Act 1996, Building and other Construction Workers Welfare cess Act 1996 as specified in GCC clause 19 at page-102 of contract document and rules of Central and State Governments.
5. You are requested to comply with all provisions of the Employees Provident Fund and miscellaneous provisions Act 1952 and Employees state Insurance Act 1948, amended from time to time and rule framed there under wherever applicable

Trichy Airport, Trichy – 620007 (TN)

Web: [www.aai.aero/aai/main.jsp](http://www.aai.aero/aai/main.jsp) email: [rsreenivasan@aai.aero](mailto:rsreenivasan@aai.aero)





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AIRPORTS AUTHORITY OF INDIA  
TRICHY AIRPORT



6. You are also directed to contact Joint General Manager (Engg- Str./Civil)- Project, Airports Authority of India, Trichy International Airport, Trichy- 620 007 immediately who will arrange to handover the site to you.
7. Please note that the time allowed for carrying out the work shall be 6 (Six) Months [including 01 month considered for rains] and same shall be reckoned from the 7<sup>th</sup> day from the date of issue of this letter.
8. Any further correspondence in connection with contract should normally be addressed to the Engineer-In-Charge.
9. Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.

Yours faithfully,

*RS-16/11/2023*

(R.Sreenivasan)

Jt.GM (Engg-Str/Civil) - Project,  
For and Behalf of Chairman,  
Airports Authority of India.

Encl:

1. Percentage BoQ/Price Schedule.
2. List of Additional Miscellaneous Items.

Trichy Airport, Trichy – 620007 (TN)

Web: [www.aai.aero/aai/main.jsp](http://www.aai.aero/aai/main.jsp) email: [rsreenivasan@aai.aero](mailto:rsreenivasan@aai.aero)



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**Percentage BoQ**

Tender Inviting Authority: Assistant General Manager (Engg-Civil), AAI, Trichy International Airport, Trichy - 620 007.

Name of Work: Miscellaneous Civil Works for NITB at Trichy Airport

Tender Ref No: AAI/TRY/PROJ/NITB/MISC/2023-24, Tender ID: 2023\_AAI\_170727\_1

|                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                 |              |          |                |                          |                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|----------------|--------------------------|-----------------------------------|
| Name of the Bidder/ Bidding Firm / Company :                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                 | ALUSTRUCTURE |          |                |                          |                                   |
| <p align="center"><b>PRICE SCHEDULE</b></p> <p align="center"><u>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )</u></p> |                                                                                                                                                                                 |              |          |                |                          |                                   |
| NUMBER #                                                                                                                                                                                                                                                                                                                             | TEXT #                                                                                                                                                                          | NUMBER #     | TEXT #   | NUMBER         | NUMBER #                 | TEXT #                            |
| Sl. No.                                                                                                                                                                                                                                                                                                                              | Item Description                                                                                                                                                                | Quantity     | Units    | Estimated Rate | TOTAL AMOUNT Without GST | TOTAL AMOUNT without GST In Words |
| 1                                                                                                                                                                                                                                                                                                                                    | 2                                                                                                                                                                               | 3            | 4        | 5              | 6                        | 7                                 |
| 1                                                                                                                                                                                                                                                                                                                                    | Miscellaneous Civil Works for NITB at Trichy Airport                                                                                                                            |              |          |                |                          |                                   |
| 1.01                                                                                                                                                                                                                                                                                                                                 | Rates applicable for Delhi Schedule of Rates 2021 items (Sub Head-I) + Rates applicable for Additional Miscellaneous Items from 01 to 150 (Sub Head-II) of the Tender Document. | 1.000        | Units    | 100.00         | 100.00                   | INR One Hundred Only              |
| Total in Figures                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                 |              |          |                | 100.00                   | INR One Hundred Only              |
| Quoted Rate in Figures                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                 |              | Less (-) | 10.81%         | 89.19                    | INR Eighty Nine Only              |
| Quoted Rate in Words                                                                                                                                                                                                                                                                                                                 | INR Eighty Nine Only                                                                                                                                                            |              |          |                |                          |                                   |



**Name of work: Miscellaneous Civil Works for NITB at Trichy Airport.**

**SCHEDULE – A**

| S.No | DESCRIPTION OF ITEM                                                                                                                                                                                                         | UNIT                 | RATE<br>RS.                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------|
|      | <b>SUB Head: I</b>                                                                                                                                                                                                          |                      |                               |
|      | Schedule DSR 2021 Items                                                                                                                                                                                                     | DSR<br>2021<br>Units | DSR 2021<br>Schedule<br>rates |
|      | <b>SUB Head: II Additional Miscellaneous Items</b>                                                                                                                                                                          |                      |                               |
| S.No | DESCRIPTION OF ITEM                                                                                                                                                                                                         | UNIT                 | RATE<br>RS.                   |
| 1    | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5.0 in superstructure above plinth level up to floor V level in all shapes and sizes in :<br>a) Cement mortar 1:6 (1 cement : 6 M-sand)  | Cum                  | 11890.98                      |
| 2    | Half brick masonry with common burnt clay F.P.S. (non-modular) bricks of class designation 5.0 in superstructure above plinth level up to floor V level.<br>a )Cement mortar 1:4 (1 cement :4 M-sand)                       | Sqm                  | 1462.43                       |
| 3.a  | Providing and fixing Acrylic sheet of clear white or any other colour in shape as approved by EIC including laser cutting, assembly and fixing with necessary paste all complete as per direction of EIC.<br>a) 2mm thick   | Sqm                  | 2803.36                       |
| 3.b  | Providing and fixing Acrylic sheet of clear white or any other colour in shape as approved by EIC including laser cutting, assembly and fixing with necessary paste all complete as per direction of EIC.<br>b) 3mm thick   | Sqm                  | 3614.64                       |
| 3.c  | Providing and fixing Acrylic sheet of clear white or any other colour in shape as approved by EIC including laser cutting, assembly and fixing with necessary paste all complete as per direction of EIC.<br>c) 5mm thick   | Sqm                  | 5956.12                       |
| 3.d  | Providing and fixing Acrylic sheet of clear white or any other colour in shape as approved by EIC including laser cutting, assembly and fixing with necessary paste all complete as per direction of EIC.<br>d) 8 mm thick. | Sqm                  | 8433.42                       |
| 3.e  | Providing and fixing Acrylic sheet of clear white or any other colour in shape as approved by EIC including laser cutting, assembly and fixing with necessary paste all complete as per direction of EIC.<br>f) 12mm thick. | Sqm                  | 12105.93                      |



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|
| 4  | Tightening of barbed wire or G.I. wire fencing including fixing of broken hooks complete.                                                                                                                                                                                                                                                                                                                                                                       | Per Meter | 11.74   |
| 5  | Providing and laying vitrified anti-skid floor tiles in different sizes of minimum thickness 8 mm with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 M-sand / M sand), including grouting the joints with white cement and matching pigments etc., complete<br>a) Size of Tile 600x600 mm                                                     | Sqm       | 1722.01 |
| 6  | Supply of Skilled Plumber for the day to day maintenance activities to ensure continuous serviceability of water supply lines and sewer lines/drain lines of all toilets in NITB, OTB, Cargo and other ancillary buildings in operational area with all necessary tools & plants as per the direction of Engineer-In-Charge. (Percentage above / below quoted by contractor will not be applicable on this Item )                                               | Day       | 1202.85 |
| 7  | Supply of Skilled Carpenter for attending complaints at Airport premises including necessary Tools & Machineries etc., complete in all respects as per the direction of Engineer-In-Charge. (Percentage above / below quoted by contractor will not be applicable on this Item )                                                                                                                                                                                | Day       | 1228.66 |
| 8  | Provision of Services for day to day maintenance of Garden at Airport premises (Operational area) including complete in all respects as per the direction of Engineer-In-Charge. (Percentage above / below quoted by contractor will not be applicable on this Item )                                                                                                                                                                                           | Day       | 936.56  |
| 9  | <del>Provision of Data processing services to Engineering directorate for assisting Engineers / Managers in preparation of payment bills, maintenance of office records &amp; files etc. preparations of progress report, all types of computer / clerical works etc. and other related works / duties as directed by E.I.C (This item rate will be fixed, above or below percentage quoted by the agency will not be applicable on this item)</del>            | Day       | 1185.26 |
| 10 | <del>Provision of Supervisory services to Engineering directorate (Minimum Dipoloma in Civil Engineering) for assisting Engineers / Managers in supervision of construction works, Maintenance work, preparation of drawings etc., and other related works / duties as well as to maintain office records etc., as directed by E. I. C (This item rate will be fixed, above or below percentage quoted by the agency will not be applicable on this item)</del> | Day       | 1246.85 |
| 11 | <del>Provision of Office Support services to Engineering directorate like maintaining the office etc., by engaging appropriate personal and delivering the services as per the direction of E.I.C. (This item rate will be fixed, above or below percentage quoted by the agency will not be applicable on this item)</del>                                                                                                                                     | Day       | 1152.41 |



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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| 12.a | Provision of services of unskilled workers for temporary nature of works / works unsucetable to measure as and when required including necessary T & P. (Ex. Deploying manpower to ATC (operations) for handling Hand held grass cutting machine, maintenance of operational area boundary wall by clearing creepers, vegetation, drain maintenance Works like shifting of store / office, verification of annual stock, filling water in desert coller, shifting of materials, to prevent enroachment on AAI land survey work etc., as directed by E-I-C.(This item rate will be fixed, above or below percentage quoted by the agency will not be applicable on this item) (Rate of item will be analysed with prevailing approved minimum wages at the time of exectuion)    | Day      | 1017.50 |
|      | (Percentage above / below quoted by contractor will not be applicable on Item No.12.a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |
| 12.b | Provision of services of semi-skilled workers for temporary nature of works / works unsucetable to measure as and when required including necessary T & P. (Ex. Deploying manpower to ATC (operations) for handling Hand held grass cutting machine, maintenance of operational area boundary wall by clearing creepers, vegetation, drain maintenance Works like shifting of store / office, verification of annual stock, filling water in desert coller, shifting of materials, to prevent enroachment on AAI land survey work etc., as directed by E-I-C.(This item rate will be fixed, above or below percentage quoted by the agency will not be applicable on this item) (Rate of item will be analysed with prevailing approved minimum wages at the time of execution) | Day      | 1028.06 |
|      | (Percentage above / below quoted by contractor will not be applicable on Item No.12.b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |
| 13   | Providing and operating the Tractor Dozer for dozing, levelling etc., at the Airport premises including transportation to and from the site, fuel charges, operator charges and any other incidental expenses on this account etc. as directed by the Engineer-in-charge.<br>(The payment will be based on the number of hours worked at the site)                                                                                                                                                                                                                                                                                                                                                                                                                              | per hour | 1266.66 |
| 14   | Providing and operating the Crane of capacity of 12 tonne. for lifting and shifting of heavy materials etc., at the Airport premises including transportation to and from the site of operation fuel charges, Operator charges and any other incidental expenses on this account all etc. as directed by the Engineer-in-charge.<br>(The payment will be based on the number of hours worked at the site.)                                                                                                                                                                                                                                                                                                                                                                      | Per Hour | 2547.71 |



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| 15 | Providing and operating Earth moving machine (J.C.B or equivalent). for levelling, cutting and cleaning of vegetation etc., at the Airport premises including transportation to and from the site of operation fuel charges, Operator charges and any other incidental expenses on this account all etc. as directed by the Engineer-in-charge. (The payment will be based on the number of hours worked at the site.)                                                                                                                                                                                                                                                                                                                                                                                                                            | per hour  | 1626.51  |
| 16 | Providing and operating the Tipper of capacity 10 cum(Minimum) for transporting the Earth debris etc., at the Airport premises excluding loading including transportation to and from the site of operation fuel charges and any other incidental expenses on this account all etc. as directed by the Engineer-in-charge. (The payment will be based on the number of days worked at the site). (1day= 8 hours )                                                                                                                                                                                                                                                                                                                                                                                                                                 | per day   | 10363.58 |
| 17 | Providing and operating the Carriage vehicle of capacity 3.00Cum for transporting the Earth debris etc., at the Airport premises excluding loading and unloading including transportation to and from the site of operation fuel charges and any other incidental expenses on this account all etc. as directed by the Engineer-in-charge. (The payment will be based on the number of hours worked at the site).                                                                                                                                                                                                                                                                                                                                                                                                                                 | per day   | 4375.73  |
| 18 | Supply of transport vehicle of type Xylo / Scorpio / Bolero / Tavera / Safari or equivalent with AC on monthly basis, Diesel driven including wages of driver and fuel to deploy at operational area of Airport between 09:00 AM to 09:00 PM (12 Hours per day) and also non-operational area for the inspection of works and visiting material testing laboratory / market survey etc., The Engineer-In-Charge will be controlling officer for the movement of vehicles for limiting to 1500 Km / Month. The vehicle should be deployed on all days except Sunday. Model should be 2018 or after. However, vehicle shall be provided at any time in any day as per operational requirements, if any arises.<br>a) Rate for 1500 km per month.<br>Note: Non supply of vehicle due to any reason, penalty of Rs.1,500/- per day shall be deducted. | Per month | 78532.88 |
|    | b) Extra over the Item No.18.A, rate for every additional Km (i.e. above 1500 Km).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Per km    | 20.73    |
| 19 | Demolishing of Brick / Concrete work with Demolishing machine along with operator and one helper (BOSCH or equivalent) without damaging the adjacent structures as per direction of Engineer-in-Charge.(Payment shall be made based on the nos of Hours work at the site).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Per hour  | 610.83   |
| 20 | Hiring of Welding machine 200Amp along with Skilled welder and one helper for welding on Mild Steel sections and Stain steel sections etc complete all as per direction of Engineer in charge.(Payment shall be made based on the nos of Hours work at the site).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | per hour  | 617.89   |



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| 21 | Hiring of gas cutter or electrical plant along with One fabricator with one helper and to and from transporting at site etc., for cutting Structural steel member (MS) complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                         | Per hour | 710.01  |
| 22 | Dismantling of Brick / Concrete work/Random Rubble Masonry with Tractor mount air Compressor Breaker Machine along with Operator and one helper without damaging the adjacent structures including stacking of serviceable material and disposal of unserviceable material as per direction of Engineer-in-Charge. (Payment shall be made based on the nos of Hours work at the site).                                                                                                                                                                                              | Per hour | 1978.25 |
| 23 | Fixing of available aluminum section for doors, windows, ventilators and partitions with extruded section / appropriate Z sections and other sections, fixed with rawl plugs and screws or with fixing clips or with expansion hold fastners including necessary filling up to gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc., Aluminum snap be Adding for glazing / panelling, CP brass / stainless steel screws all complete as per the direction of Engineer-in-charge.(Glazing / panelling to be paid separately).<br>a) For fixed portion. | Kg       | 117.52  |
| 24 | Providing and fixing 9 mm thick prelaminated 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 both sides                                                                                                                                            | Sqm      | 681.65  |
| 25 | Providing and fixing urinal partition made of 12mm thick solid compact laminate HPL board in single colour and single board of make Merino/T line/Greenlam or equivalent with necessary SS clamp and screws also complete as per the direction of Engineer in charge.<br>a) Size of Urinal partition - 1195mm x 450mm                                                                                                                                                                                                                                                               | Each     | 4843.16 |
| 26 | Providing and fixing powder coated telescopic drawer channels 600 mm long with necessary screws etc. complete as per directions of Engineer-in- charge.                                                                                                                                                                                                                                                                                                                                                                                                                             | Per set  | 1107.32 |
| 27 | Providing and fixing horizontal venetian blinds 25mm wide as per required design and complete in all respect as per the satisfaction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm      | 1876.27 |
| 28 | Supplying and fixing vertical venetian blinds 100 mm wide including all fittings etc., required complete in all respects as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                | Sqm      | 1256.76 |



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |         |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|
| 29 | Fixing available stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (Materials shall be supplied by AAI). | Kg   | 227.59  |
| 30 | Rubbing and polishing on S.S.railing (Pies of all dia) pipe with hand operated type machine complete in all respect as per satisfaction / direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                         | Mtr  | 245.50  |
| 31 | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (Material shall be supplied by AAI).                                                                                                                                                                                                                                                                                                             | Kg   | 43.52   |
| 32 | Providing and fixing PVC nahani trap of size 100 x 75 mm including necessary jointing etc. complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                                                                                    | Each | 143.04  |
| 33 | Providing and fixing PVC Flush tank handle of approved make complete in all respects as per direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                       | Each | 126.21  |
| 34 | Providing and fixing PVC Flush tank float valve / PVC siphon of approved make complete in all respects as per direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                     | Each | 212.57  |
| 35 | Providing and fixing Basin mixer of make Jaquar (code -FUS-CHR-29023B) or equivalent complete in all respects as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 5332.57 |
| 36 | Providing and fixing Brass nickel coated inner sets spindel for taps / pillar taps, stop cocks by removing the old and replacing it with new one (jaquar or equivalent) as and when required complete in all respects as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                  | Each | 648.47  |
| 37 | Providing and fixing CP brass Health faucet with connection hose of make Jaquar (ALD-CHR-573) or equivalent all complete as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                                                                               | Each | 1599.93 |
| 38 | Providing and fixing CP brass Health faucet only of jaquar make or equivalent all complete as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                             | Each | 965.62  |
| 39 | Providing and fixing C.P Swan neck pillar cock of approved make Code no: FLR-CHR-5357N (jaquar or equivalent) complete in all respects as per the direction of Engineer-in-charge.<br>a) 15mm nominal bore.                                                                                                                                                                                                                                                                                                                                                        | Each | 2380.61 |
| 40 | Providing and fixing flush plate (Shell type) of make Hindware or equivalent for concealed cistern of EWC Model no 92502, with necessary screws, fittings etc. as approved by Engineer in charge                                                                                                                                                                                                                                                                                                                                                                   | Each | 1331.30 |



|    |                                                                                                                                                                                                                                                                                                                                                                |      |          |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|
| 41 | Providing and fixing Urinal spreader of make of Viking or equivalent size approved quality complete in all respects as per the direction of Engineer-in-charge.                                                                                                                                                                                                | Each | 587.09   |
| 42 | Providing and fixing Angle Cock with wall flange of make Jaquar (Code No.FUS-29053) or equivalent including thread, solvent etc., complete in all respect as per the direction of Engineer-in-charge.                                                                                                                                                          | Each | 1578.94  |
| 43 | Providing and fixing Bib Cock with wall flange of Code No.FUS-CHR-29037 of approved make jaquar or equivalent including thread, solvent etc., complete in all respect as per the direction of Engineer-in-charge.                                                                                                                                              | Each | 2115.65  |
| 44 | Providing and fixing Wall Mixer with provision for Overhead shower with 115mm long bend pipe on upper side, connecting legs & wall flanges of Code No.FUS-CHR-29273UPR of approved make Hindware or equivalent including thread, solvent etc., complete in all respect as per the direction of Engineer-in-charge.                                             | Each | 6817.32  |
| 45 | Providing and fixing Pillar Cock Single Lever Tall Boy with 150mm extension body fixed spout with popup waste system with 600mm long braided hoses of Code No. FUS-CHR-29021N of approved make jaquar or equivalent including thread, solvent etc., complete in all respect as per the direction of Engineer-in-charge.                                        | Each | 3002.71  |
| 46 | Providing and fixing Over Head Shower 100mm dia, round shape single flow (ABS body chrome plated with Grey face plate) with Rubit Cleaning System of Code No. OHS-CHR 1989 with connecting Shower Arm of Code No.477 of approved make jaquar or equivalent including thread, solvent etc., complete in all respect as per the direction of Engineer-in-charge. | Each | 2310.82  |
| 47 | Providing and fixing Shower Arm of Code No. ARS 477 of approved make jaquar or equivalent including thread, solvent etc., complete in all respect as per the direction of Engineer-in-charge.                                                                                                                                                                  | Each | 798.25   |
| 48 | Providing and fixing wall-hung quiet closet (EWC) make of Jaquar (Code No, soft close seat cover ARS-WHT 39951 (soft close seat cover WHT-1012UF)) or equivalent including nuts, bolts and gasket etc., complete in all respect as per the direction of Engineer-in-charge.                                                                                    | Each | 18007.73 |
| 49 | Providing and fixing soft close seat cover for EWC ARS-WHT 39951 (soft close seat cover WHT-1012UF)) or equivalent including nuts, bolts and gasket etc., complete in all respect as per the direction of Engineer-in-charge.                                                                                                                                  | Each | 4628.75  |
| 50 | Providing and fixing table top Wash Basin of size 630*425*160mm of Code No. (JDS-WHT-0542 (25901)) of approved make jaquar or equivalent including waste coupling, nuts, bolts and gasket etc., complete in all respect as per the direction of Engineer-in-charge.                                                                                            | Each | 6861.42  |



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| 51 | Providing and fixing white vitreous china battery based infrared sensor operated urinal of Hindware Flow No 60021 or equivalent having pre & post flushing with water (250ml & 500ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.                                                                                                                                                               | Each | 11129.74 |
| 52 | Supplying and fixing of Urinal sensor of make Hindware (Code 506574) or equivalent for Urinal Flow Model no 60021 including necessary freight charges etc., complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                | Each | 7287.68  |
| 53 | Providing and fixing white vitreous china wash basin made of Hindware Zen cat.no 10049 or equivalent including making all connections but excluding the cost of fittings<br>a) Flat back wash basin of size 560x450 mm                                                                                                                                                                                                                                                                                                          | Each | 3575.32  |
| 54 | Providing and fixing white vitreous china concealed type water closet HW325 92502 Hindware or equivalent (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :<br>W.C. pan with ISI marked white solid plastic seat and lid                                          | Each | 22561.79 |
| 55 | Providing and fixing white vitreous china concealed type 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :                                                                                                                                                                                                   | Each | 11807.88 |
| 56 | Providing and fixing white vitreous china concealed type water closet 92502 Hindware or equivalent (European type W.C. pan) with seat and lid, conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :                                                                                                                                                                                                                                     | Each | 13984.03 |
| 57 | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures of Hindware (Code 20004) or equivalent complete, including cutting and making good the walls and floors wherever required:<br>a) White Vitreous china Orissa pattern I.W.C. pan of size 580x440 mm with integral type foot rests | Each | 8187.46  |
| 58 | Providing and fixing Cp Brass Waste Coupling of dia 32mm full thread with 130mm height made of Jaquar or equivalent, ALD-CHR-705L130 HSN 74182010 for wash basin and sink. Waste coupling 32 mm dia and 130 mm length                                                                                                                                                                                                                                                                                                           | Each | 667.36   |



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| 59 | Providing and fixing towel rail made of Jaquar or equivalent, ACN-CHR-1111NM HSR 83025000 complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.<br>a) 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.                                                        | Each    | 1786.84 |
| 60 | Providing and fixing C.P Brass coat hook made of Jaquar or equivalent, AKP-CHR-35791P HSN74182010 complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.                                                                                                                                                                                     | Each    | 1030.92 |
| 61 | Providing and fixing SS connection hose with brass unions :<br>a) 45 cm length 15 mm nominal bore ALD-CHR-805B                                                                                                                                                                                                                                                                                                               | Each    | 331.06  |
| 62 | Providing and fixing C.P. brass 2 way bib cock made of Jaquar of catalogue no FUS-CHR-29041 or equivalent, conforming to IS:8931: a)15 mm nominal bore                                                                                                                                                                                                                                                                       | Each    | 2569.99 |
| 63 | Providing and fixing Toilet paper Roll Holder with Flap of Code No.AKP-CHR-35753PS of approved make Jaquar or equivalent including Bolts, Nuts, Screws etc., complete in all respect as per the direction of Engineer-in-charge.                                                                                                                                                                                             | Each    | 1871.68 |
| 64 | Providing and fixing CP bottle trap for wash basin 32mm dia made of Jaquar catalogue no ALD-CHR- 769L 300X190 or equivalent complete in all respects as per direction of Engineer-in-charge.                                                                                                                                                                                                                                 | Each    | 1945.40 |
| 65 | Hiring of generator of capacity (10kV) to provide power supply for any kind of fabrication work including of diesel at various locations inside operational area all complete as per the direction of Engineer-In-Charge                                                                                                                                                                                                     | Per day | 5757.54 |
| 66 | Providing and fixing Polyvinyl Chloride (PVC) pipes of working pressure of 6kg/Cm <sup>2</sup> , having thermal stability for hot & cold water supply including all PVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work B)50 mm nominal outer dia Pipes | Metre   | 265.96  |
| 67 | Providing and fixing Polyvinyl Chloride (PVC) pipes, having thermal stability for hot & cold water supply including all PVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work C) 63mm nominal bore                                                        | Metre   | 318.84  |
| 68 | Providing and fixing of lever operated ball valve of make ZOLOTO or equivalent make of approved quality as directed by Engineer in charge.<br>a) 25 mm nominal bore.                                                                                                                                                                                                                                                         | Each    | 760.85  |



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| 69 | Providing and fixing of lever operated 80mm ZOLOTO brass ball valve with bolt & nut, washers etc., complete as per the direction of Engineer-in-charge.                                                                                                                                            | Each  | 9339.16  |
| 70 | Providing and fixing of lever operated 100mm ZOLOTO brass ball valve with bolt & nut, washers etc., complete as per the direction of Engineer-in-charge.                                                                                                                                           | Each  | 20351.17 |
| 71 | Providing and fixing sun control (Normal) Polyester film (Gareware/3M or equivalent) on glass after thorough cleaning of existing surface. The rate includes removal of existing sun control film wherever required.<br>a) Non - Reflective type.                                                  | Sqm   | 1143.00  |
| 72 | Providing and fixing sun control (High) Polyester film (Gareware/3M or equivalent) on glass after thorough cleaning of existing surface. The rate includes removal of existing sun control film wherever required.<br>a) Reflective type.                                                          | Sqm   | 1397.00  |
| 73 | Providing and fixing Vinyl Sticker over 3 mm thick foam sheet etc. including cutting and pasting complete in all respects as per the direction of Engineer-in-charge. (Rate for vinyl sticker & 3mm foam sheet only)                                                                               | Sqm   | 1672.68  |
| 74 | Providing and fixing frosted (Make 3M or equivalent) film on glass after thorough cleaning of existing surface, complete in all respects as per the direction of Engineer-In-Charge.                                                                                                               | Sqm   | 2354.14  |
| 75 | Providing and fixing Vinyl sticker (Yellow) of make 3M on floor after thorough cleaning of existing surface complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                   | RM    | 151.08   |
| 76 | Providing and fixing directional strip tactile flooring of stainless steel SS316 Anti-Skid linear grooves with plain bevel edge strips of dimension 280mm x 35mm x 4.5mm (4 nos per sq.ft) including necessary fittings and accessories all complete as per the direction of Engineer - In-Charge. | Sqm   | 13071.46 |
| 77 | Providing and fixing warning stud tactile flooring of stainless steel SS316 Anti-Skid concentric circles with plain bevel edge stud of 35mm dia reduced to 25mm x 4.5mm (36 nos per sq.ft) including necessary fittings and accessories all complete as per the direction of Engineer - In-Charge. | Sqm   | 22505.46 |
| 78 | Supply of primer of make ShaliPrime (polyurethane based primer) or equivalent for application in repairing of pot holes and cracks on runway, apron and taxi track etc., all complete as per the approval of the Engineer in charge.                                                               | Litre | 1062.27  |



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| 79 | Providing and applying of Polymerized elastomeric concrete of make STP (Shalipatch EC 20) or equivalent in pot holes/crack in concrete surface with application of one coat primer to the pot holes/crack in concrete surface after cleaning the surface without any foreign objects. By mixing the patch material with mixing machine fitted with paddle until getting homogeneous and pouring into the prepared surface and levelling with trowel to attain smooth finish all complete as per the direction of the Engineer-in-charge.                                                       | Kg   | 1056.47 |
| 80 | Supplying of Polysulphide polymer based sealant, UV resistant, flexible, tear resistant, rubbery, self-levelling, pourable, non-staining sealant, of make STP (Shaliseal PS PG) or equivalent with its respective primer for construction joints/expansion joints etc. all complete as per the direction of Engineer in charge.                                                                                                                                                                                                                                                                | Kg   | 769.28  |
| 81 | Supply of polymerized elastomeric concrete of make STP(Shalipatch EC 20) or equivalent with excellent adhesion to substrate for crack filling ranging between 5 - 50 mm wide in concrete / flexible roads, and surface correction in concrete road / pavement with self levelling, easily trowel-able into cracks and spall and to prevent percolation of water and other chemicals thus protecting it from wearing off, material of make Shali Patch or equivalent to repair the pot holes and cracks on runway, apron and taxi track all complete as per the approval of Engineer in charge. | Kg   | 791.47  |
| 82 | Providing and laying of Modified polymeric bitumen membrane water proofing sheet of 2mm thick below waste water line as per direction and approved by Engineer in charge                                                                                                                                                                                                                                                                                                                                                                                                                       | Sqm  | 247.85  |
| 83 | Providing and fixing 8mm thick mirror of make saint gobian or equivalent with hard board of 6mm back of the mirror including the Labour charges, Screws, etc., complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                                            | Sqm  | 2357.16 |
| 84 | Providing and fixing SS Studs of size 25mm x 50mm all complete as per direction of EIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each | 223.72  |
| 85 | Dismantling, Removing and Refixing of toughened glass partition along with removal of toughen glass doors, floor springs etc., after debolting the SS bolts and nuts, SS hold fastner etc., without damaging the dismantled glass materials all as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                    | Sqm  | 2535.62 |
| 86 | Dismantling and Removing of toughened glass partition along with removal of toughen glass doors, floor springs etc., after debolting the SS bolts and nuts, SS hold fastner etc., without damaging the dismantled glass materials all as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                              | Sqm  | 1491.92 |
| 87 | Providing and fixing 12 mm thick frameless toughened glass door shutter, glass partition of approved brand and manufacture including making necessary holes etc. for fixing required spider fittings or any other fitting, all complete as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                            | Sqm  | 2962.79 |



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| 88   | Providing and fixing double action hydraulic floor spring of make Dorma (model No. XL-C 1007) or equivalent Floor Spring 90 Degree with double spring mechanism and door weight up to 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness | Each  | 12819.42 |
| 89   | Providing and Fixing corner floor lock EPC both side key - 60mm of make Dorma or equivalent for fixing in Toughened glass door, all complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                                   | Each  | 3545.49  |
| 90   | Providing and Fixing "Glass to Glass" Double connector SS 304 of make Dorma or equivalent for fixing in Toughened glass, (XL-C-4008A side connector)all complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                               | Each  | 1050.36  |
| 91   | Providing and Fixing wall/floor to glass single connector SS 304 of of make Dorma or equivalent for fixing in Toughened glass(XL-C-4006A central connector), all complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                      | Each  | 891.29   |
| 92   | Providing and Fixing Pull Handle D - Type, Centre to Centre (CTC) : 300 mm, dia 22 mm, SS 304 of make Dorma or equivalent, all complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                                        | Each  | 2398.76  |
| 93   | Supplying of Silicon sealant of make Dowsil (GP-Clear) or equivalent of Capacity of 260ml for filling of Glazing partitions, ACP partitions and cutting joints wherever required as directed by the Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                    | Each  | 144.42   |
| 94   | Supplying of Silicon sealant of make Dowsil (GP-Clear) or equivalent of Capacity of 280ml for filling of Glazing partitions, ACP partitions and cutting joints wherever required as directed by the Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                    | Each  | 268.36   |
| 95.a | Cleaning of choked / blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully trap, EWC, IWC, wash basin, kitchen sink, bottle traps, house drain, storm water drain etc., of any diameter and sizes including removal of malba as directed by Engineer-in-charge.a) Rain water pipe / soil waste and vent pipes.                                                                                                                                                                                                                | Metre | 24.02    |
| 95.b | Cleaning of choked / blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully trap, EWC, IWC, wash basin, kitchen sink, bottle traps, house drain, storm water drain etc., of any diameter and sizes including removal of malba as directed by Engineer-in-charge.<br>b) Manhole including connected sewerage pipes up to the next manhole either manually or using sewer rod                                                                                                                                                    | Each  | 1037.95  |



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| 95.c | Cleaning of choked / blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully trap, EWC, IWC, urinal, wash basin, kitchen sink, bottle traps, house drain, storm water drain etc., of any diameter and sizes including removal of malba as directed by Engineer-in-charge.<br>c) EWC / IWC including connected traps and soil waste pipe up to the nearest opening point in the soil waste pipe. | Each     | 213.16  |
| 95.d | Cleaning of choked / blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully trap, EWC, IWC, wash basin, kitchen sink, bottle traps, house drain, storm water drain etc., of any diameter and sizes including removal of malba as directed by Engineer-in-charge.<br>d) Wash basin / kitchen sink including connected traps.                                                                    | Each     | 53.29   |
| 95.e | Cleaning of choked / blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully trap, EWC, IWC, wash basin, kitchen sink, bottle traps, house drain, storm water drain etc., of any diameter and sizes including removal of malba as directed by Engineer-in-charge.<br>e) House drain (Open)                                                                                                      | Metre    | 12.32   |
| 95.f | Cleaning of choked / blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully trap, EWC, IWC, wash basin, kitchen sink, bottle traps, house drain, storm water drain etc., of any diameter and sizes including removal of malba as directed by Engineer-in-charge.<br>f) House drain (Covered)                                                                                                   | Metre    | 53.93   |
| 95.g | Cleaning of choked / blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully trap, EWC, IWC, wash basin, kitchen sink, bottle traps, house drain, storm water drain etc., of any diameter and sizes including removal of malba as directed by Engineer-in-charge.<br>g) Storm water drain (road side)                                                                                           | Metre    | 45.72   |
| 95.h | Cleaning of choked / blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully trap, EWC, IWC, wash basin, kitchen sink, bottle traps, house drain, storm water drain etc., of any diameter and sizes including removal of malba as directed by Engineer-in-charge.<br>h) Storm water drain (Runway side)                                                                                         | Metre    | 29.04   |
| 96   | Cleaning septic tank/manhole chamber/sewer line by engaging sewage disposal vehicle of capacity 5 cum to 6 cum including disposal of the malba and sludge to the government approved dumping yard etc. complete as per the direction of Engineer-in-charge.                                                                                                                                                                | Per trip | 3020.41 |
| 97   | Providing and fixing European type W.C. seat cover of approved make Jaquar (1012 UF) or equivalent with all necessary material.as per direction of Engineering -in-charge                                                                                                                                                                                                                                                  | Each     | 3618.47 |
| 98   | Providing and fixing European type W.C. seat cover of approved make Hindware(Enigma Slim) or equivalent with all necessary material.as per direction of Engineering -in-charge                                                                                                                                                                                                                                             | Each     | 4506.50 |



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| 99  | Supplying and fixing of Urinal Battery box approved make Hindware or equivalent including necessary freight charges etc., complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                | Each  | 927.06  |
| 100 | Supplying and fixing of Solenoid valve for urinals of make Hindware or equivalent including necessary freight charges etc., complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                              | Each  | 5464.78 |
| 101 | Supplying of Silicon sealant of make Dowsil (789 Black) or equivalent Capacity of 280ml for filling of Glazing partitions, ACP partitions, Cutting joints and Water leakage arresting wherever required as directed by the Engineer-in-charge.                                                                                                                                                                                                                                                | Each  | 268.36  |
| 102 | Removal of rubber deposit/excess bitumen bleeding/Paint removal on runway surface using water jetting/water blasting cum vaccuming system, low impact method which involves water jetting technology with suitable operating pressure so that the total rubber should be removed and pavement surface texture and surface condition remains intact or as directed by the Engineer-In-Charge and cleaning, removing all dirt's waste materials etc as per the direction of Engineer-In-Charge. | Sqm   | 368.48  |
| 103 | Checking and servicing of 60Nos of Urinal sensors at NITB, OTB by engaging qualified technicians and replacing the necessary spares, wherever required, all complete as per the direction of Engineer-In-Charge. (Spares to be paid separately) (Rate for attending 60nos of urinal sensor as one job)                                                                                                                                                                                        | Visit | 7484.80 |
| 104 | Providing and fixing of Duracell or equivalent batteries (4Nos per battery box) in urinal sensors all complete as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                    | Each  | 25.33   |
| 105 | Providing and fixing of fill valve to fix inside Concealed flush tank with necessary fittings all complete as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                        | Each  | 1444.27 |
| 106 | Providing and fixing Pillar Cock of Code No.ALI-CHR-85001 of approved make jaquar or equivalent including thread, solvent etc., complete in all respect as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                           | Each  | 2636.76 |
| 107 | Providing & fixing of PVC lid for closing the PVC water tank with necessary fittings etc., as per the direction of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                                        | Each  | 1286.18 |
| 108 | Providing and fixing bright finished 200 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge.                                                                                                                                                                                                                                                                            | Each  | 4087.09 |
| 109 | Providing and fixing SS grill / Ventilator for size 200mm x 150mm in doors made of particle board and etc, including cutting, finishing with all necessary screws etc all complete as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                                | Each  | 2533.66 |



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| 110 | <p>Providing and fixing white vitreous china concealed type water closet Hindware: Essence Neo - 92559 Hindware or equivalent (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: complete in all respects as per the direction of Engineer-In-Charge.</p> <p>W.C. pan with ISI marked white solid plastic seat and lid</p>                   | Each | 30305.20 |
| 111 | <p>Providing and fixing white vitreous china concealed type water closet Hindware: Essence Neo - 92559 Hindware or equivalent (European type W.C. pan) with seat and lid, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : complete in all respects as per the direction of Engineer-In-Charge.</p> <p>W.C. pan with ISI marked white solid plastic seat and lid</p>                                                                                                                                                                  | Each | 20434.44 |
| 112 | <p>Providing and fixing CP brass Health faucet with connection hose of make Hindware Cat. No F160112CP or equivalent all complete as per the direction of Engineer-In-Charge.</p>                                                                                                                                                                                                                                                                                                                                                                                                                        | Each | 1307.17  |
| 113 | <p>Providing and fixing C.P. brass 2 way bib cock make of Hindware of catalogue no F280054CP or equivalent, conforming to IS:8931 : complete in all respects as per the direction of Engineer-In-Charge.</p> <p>a)15 mm nominal bore</p>                                                                                                                                                                                                                                                                                                                                                                 | Each | 2326.04  |
| 114 | <p>Providing and fixing Toilet paper Roll Holder with Flap of Code No.F880003CP of approved make Hindware or equivalent including Bolts, Nuts, Screws etc., complete in all respect as per the direction of Engineer-in-charge.</p>                                                                                                                                                                                                                                                                                                                                                                      | Each | 1125.16  |
| 115 | <p>Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white concealed flushing cistern, including flush pipe, with manually controlled device (flush plate) conforming to IS: 7231, with all fittings and fixtures of Hindware 20042 or equivalent complete, including cutting and making good the walls and floors wherever required: complete in all respects as per the direction of Engineer-In-Charge.</p> <p>a) White Vitreous china Orissa pattern I.W.C. pan of size 580x440 mm with integral type foot rests</p> | Each | 16682.27 |
| 116 | <p>Providing and fixing white vitreous china battery based infrared sensor operated urinal of Hindware Dyna Cat no 60010 or equivalent having pre &amp; post flushing with water (250ml &amp; 500ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.</p>                                                                                                                                                                                                                     | Each | 19746.54 |



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| 117 | Supplying and fixing of Urinal sensor of make Hindware Code: 500964 or equivalent for Urinal Dyna Model no 60010 including necessary freight charges etc., complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                     | Each | 5628.73 |
| 118 | Providing and fixing C.P. brass long body bib cock make of Hindware of catalogue no F280002CP or equivalent, conforming to IS: 8931: complete in all respects as per the direction of Engineer-In-Charge.<br>a)15 mm nominal bore                                                                                                                                                                   | Each | 1886.90 |
| 119 | Providing and fixing C.P. brass single lever concealed diverter of make Hindware of catalogue no F850090 & F360014ACP or equivalent, conforming to IS: 8931: complete in all respects as per the direction of Engineer-In-Charge.<br>a)15 mm nominal bore                                                                                                                                           | Each | 4716.87 |
| 120 | Providing and fixing C.P. brass overhead rose shower with shower arm of make Hindware of catalogue no F160142 or equivalent, conforming to IS: 8931: complete in all respects as per the direction of Engineer-In-Charge.<br>a)15 mm nominal bore                                                                                                                                                   | Each | 1974.72 |
| 121 | Providing and fixing C.P. brass bath spout of make Hindware of catalogue no F360009CP or equivalent, conforming to IS: 8931: complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                   | Each | 1974.72 |
| 122 | Providing and fixing C.P. brass Towel rail of make Hindware of catalogue no F450024 or equivalent, conforming to IS: 8931: complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                                     | Each | 1740.52 |
| 123 | Providing and fixing C.P. brass angle valve of make Hindware of catalogue no F850077 or equivalent, conforming to IS: 8931: complete in all respects as per the direction of Engineer-In-Charge.<br>a)15 mm nominal bore                                                                                                                                                                            | Each | 667.08  |
| 124 | Providing and fixing C.P. brass Sensor operated pillar cock of make Hindware of catalogue no F240001 or equivalent, conforming to IS:8931: complete in all respects as per the direction of Engineer-In-Charge.                                                                                                                                                                                     | Each | 7351.68 |
| 125 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in beams, lintels, columns and slabs to introduce steel bars for sunshades / balconies including fixing the steel bars in position using Injectable mortar from approved make all complete as per direction of Engineer-In-Charge.<br>(For Stud columns and beams)<br>10mm dia Rebar anchoring works | Each | 131.46  |



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| 126 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in beams, lintels, columns and slabs to introduce steel bars for sunshades / balconies including fixing the steel bars in position using Injectable mortar from approved make all complete as per direction of Engineer-In-Charge.<br>(For Stud columns and beams)<br>12mm dia Rebar anchoring works | Each | 142.57 |
| 127 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in beams, lintels, columns and slabs to introduce steel bars for sunshades / balconies including fixing the steel bars in position using Injectable mortar from approved make all complete as per direction of Engineer-In-Charge. (For Stud columns and beams)<br>16mm dia Rebar anchoring works    | Each | 199.16 |
| 128 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in beams, lintels, columns and slabs to introduce steel bars for sunshades / balconies including fixing the steel bars in position using Injectable mortar from approved make all complete as per direction of Engineer-In-Charge. (For Stud columns and beams)<br>20mm dia Rebar anchoring works    | Each | 257.95 |
| 129 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in beams, lintels, columns and slabs to introduce steel bars for sunshades / balconies including fixing the steel bars in position using Injectable mortar from approved make all complete as per direction of Engineer-In-Charge. (For Stud columns and beams)<br>25mm dia Rebar anchoring works    | Each | 466.97 |
| 130 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in beams, lintels, columns and slabs to introduce steel bars for sunshades / balconies including fixing the steel bars in position using Injectable mortar from approved make all complete as per direction of Engineer-In-Charge. (For Stud columns and beams)32mm dia Rebar anchoring works        | Each | 777.72 |
| 131 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in RCC beams, lintels, columns and slabs to introduce to fix the Insert /base plates including fixing the fastner in position as approved make all complete as per direction of Engineer-In-Charge.(For cable tray supports)<br>M12 - Mechanical Anchor fastner                                      | Each | 291.50 |



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| 132 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in RCC beams, lintels, columns and slabs to introduce to fix the Insert /base plates including fixing the Threaded rod in position using Hilti/Fischers Injectable mortar anchor grout of approved make all complete as per direction of Engineer-In-Charge. (For fix of structural steel members in concrete)<br>M16 x320 Chemical Anchor Fastner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 1066.05 |
| 133 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in RCC beams, lintels, columns and slabs to introduce to fix the Insert /base plates including fixing the Threaded rod in position using Hilti/Fischers Injectable mortar anchor grout of approved make all complete as per direction of Engineer-In-Charge. (For fix of structural steel members in concrete)<br>M20 x400 Chemical Anchor Fastner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 1434.35 |
| 134 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine in RCC beams, lintels, columns and slabs to introduce to fix the Insert /base plates including fixing the Threaded rod in position using Hilti/Fischers Injectable mortar anchor grout of approved make all complete as per direction of Engineer-In-Charge. (For fix of structural steel members in concrete)<br>M20 x130 Chemical Anchor Fastner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 708.71  |
| 135 | Providing and fixing of glass fiber mesh of width 150mm, mesh size 5mmx5mm, weight 145gsm for Internal plaster works (Gypsum) at all the joints of concrete to AAC block and MS structure to AAC block surfaces including the cost of materials, labour, tool & plants as approved by Engineer-in charge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mtr  | 12.76   |
| 136 | Coal tar Epoxy coating for Sewage treatment plant: Providing and applying of two component, cold cure, high build, anti-corrosive and protective coating for concrete, Coal Tar Epoxy coating on floor/ wall/ ceiling of STP. The coal tar epoxy coating shall be applied on existing cementitious surface. The coating shall have excellent chemical resistance properties in atmosphere or in contact with chemical solutions such as effluents, sewage, salty water, organic/inorganic acids & alkalis. The coating shall be applied directly on specified surface after mixing of two components in 3:1 ratio as per manufacturer's guidelines. The existing surface shall be waterproofed, plastered and paid separately in relevant items of BoQ. The work shall be done by specialized agency as per approved specification and direction of Engineer-in-charge. The contractor shall give the 5 years guarantee against whole system of Coal tar epoxy coating. Dry film Thickness of coating = minimum 200 micron, Solid content percentage = 75 % minimum, theoretical coverage = minimum 04 sqm per Litre, Elongation as per ASTM D638= 30%, Adhesion pull off = 02 Mpa minimum | Sqm  | 324.15  |



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| 137 | <p>Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment up to 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of:</p> <p>(a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mm x 100mm x 3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment up to 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with raw plug.</p> <p>(b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.</p> <p>(c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti-static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip non-combustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology up to 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will with standard Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of</p> | Sqm | 4277.85 |
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|     | Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |          |
| 138 | Providing and laying of GP2 for insert plates gaps and holes grouting on the ratio of 100% groute materials using including side supporting and finishing complete as per direction of Engineer-in-Charge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cum | 58982.37 |
| 139 | Dismantling AAC block, including AAC wall cutting joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cum | 3454.53  |
| 140 | Providing and fixing Aluminum composite panel cladding around the columns including circular columns, dead walls, edges of roofs, under side of ceiling, facia as per technical data at all heights. Aluminum composite panel shall be of approved makes and shades (inclusive of 20% Quantity for stainless steel brush shade) made out of 4mm thick aluminum composite panel comprising of Aluminum Skin of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sqm | 5086.38  |
|     | Minimum 0.5mm of 5005 Alloy with KYNAR 500/Hylar 5000 PVDF based fluorocarbon resin and Lead free Coating of approved finish +3mm thick non-combustible mineral based polymer core compliance to A2, s1, d0 As per En13501-1, ASTM E119 and NBC Guidelines 2016 +0.5mm aluminum skin of 5005 Alloy with service coat bond with either Sandwich or co extrusion process. Overall weight of the panel shall not be less than 8 kg per sqm as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone non streaking sealant, backer rods etc. The Aluminum frame work behind ACP panel shall consists of rectangular tube 2mm thick 38 mm X 50 mm as main frame, shall be fixed to existing RCC/MS structure with 6 mm MS galvanized brackets @ 600 mm C/C bothways. Nylon separators to prevent bi-metallic contacts all complete required to be provided. The Contractor shall provide aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per Item description, as specified, as per the approved shop drawings and as directed by the Engineer-in- Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm up to two decimal places. Alumimum frame work behind ACP panel wall shall be paid separately under item no 107 and 6 mm MS galvanized brackets @ 600 mm C/C both ways will be included in this item). |     |          |
| 141 | Providing and fixing Bird protection net of make "Garware" thickness 1.5 mm and gap 20mm to the existing steel trusses of the high raised canopy all complete as per direction of Engineer in charge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sqm | 213.58   |



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| 142 | Providing and fixing in position single/double leaf including frames fire check doors with 120 minutes fire rating conforming to BS:476 part 22 & IS : 364 part II of approved make at all levels including all accessories like door closer, panic exit device (single/double leaf),ss ball bearings , vision panel etc., testing and complete in all respect with Prototype Test certificate for a test carried out earlier at CBRI Roorkee /NTH for fire rating of doors including manufactures test certificate as per technical specifications and direction of Engineer-In-Charge. (Note: The cost includes door frames, door shutter , vision panel ,all hardware's, accessories and cost of fire door with frame and all hardware required for laboratory testing and any incidental additional requirements for execution of this item as per technical specifications and complete satisfaction to Engineer- In –Charge, cost of all above shall be treated as included in the item and nothing extra will be paid on this account ) | Sqm  | 11802.96 |
| 143 | Providing and fixing stainless steel (grade 304) tower bolts of approved make with necessary screws etc. complete.<br>In stainless steel satin / polished finish<br>250 x10 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Each | 384.13   |
| 144 | Providing and fixing stainless steel finish cylindrical keyless (with an emergency opening option from outside) lock of godrej (Product code 9843) with bolt throw 12mm and backset 60 mm or equivalent as per approved make complete in all respect as per direction of Engineer In charge. (location: Disabled toilet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Each | 857.46   |
| 145 | Providing and fixing stainless steel finish cylindrical keyed (with three number of keys for each lock) lock of godrej (Product code 5329) with bolt throw 12mm and backset 60 mm or equivalent as per approved make complete in all respect as per direction of Engineer In charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Each | 1293.59  |
| 146 | Providing and fixing Stainless Steel (grade 304) floor door stoppers in stainless steel satin finish (Twin) of Dorma (TZ-5000)/Hafele make (article no.937.13.53033 or equivalent as per approved make) make with necessary ss screws etc. or approved equivalent make with necessary S.S screws etc. complete as per direction of Engineer in charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each | 100.64   |
| 147 | Providing and laying polythene sheet (white in colour) of thickness 400 micron conforming to IS: 2508, on the PCC with overlaps of not less than 300mm longitudinally and 300mm transversely over and including a base layer of 6mm thick fine sand/M-Sand complete as per specifications and as directed by Engineer-in-charge (Note- Only plan area shall be measured for payment)<br>(Note: This item shall be used under granite flooring on ground floor(without any RCC slab) Item no 77 & 78 and Item no 354)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sqm  | 59.41    |



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| 148 | <p>Providing and laying 25 mm thick factory cut mirror polished (pre-polished) superior granite stone tile in flooring of shade Imperial white or White pearl from Tamilnadu or Rajasthan in required design and patterns, in linear as well as curvilinear portions of the building, all complete as per the architectural drawings with tile of size 800mm x 800mm of approved shade, color and texture duly factory treated with water proof penetrating shield treatment on bottom surface and four sides of the granite stone tile with two or more coats. The treatment shall be carried out as per manufacturer's specification. The tiles shall be supplied to site in packed condition in wooden boxes and laid in approved design and pattern over duly cured and dried 15 mm (average) thick correction layer base of cement mortar 1:4 (1 cement: 4 coarse sand) followed by laying and fixing with white colour stone adhesive of category C2 TE (minimum) in compliance with ISO 13007-1 EN 12004/12002 with average 6mm thickness and jointed with 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including making provisions of expansion joints, rubbing and curing etc. complete at all levels.(As per approved samples available at AAI offices at Delhi )After completion of all activities flooring shall be cover with polyethylene sheet of minimum 200 micron and 10 mm thick plaster of Paris to avoid damage to flooring during other works. At final stage of building work POP &amp; Polythene sheet shall be removed and final cleaning and buffing if any shall be completed to the satisfaction of Engineer-In-Charge.Note:- (i)The process includes cost of granite stone tile including cutting&amp; wastage due to design and patterns in linear as well as curvilinear pattern as per architectural drawings, Pre- polishing, laying with mortar, drying, adhesive , fixing, treatment with Water Proof Penetrating Shield Treatment, grouting joints with epoxy grout ,spacers &amp; covering top surface after all treatment with POP &amp; Polythene sheet etc. and removal of same and thereafter cleaning buffing etc. complete.(ii) At site no cutting/grinding of granite tile is permitted. Edges of the slabs shall be true, square and free from chippings and the surface shall be true and plane otherwise tile shall be rejected and nothing extra shall be payable.</p> | Sqm | 4747.53 |
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| 149 | <p>Providing and laying 25 mm thick factory cut mirror polished (pre-polished) superior granite stone tile in flooring of shade chocolate mahogany or similar dark shade in required design and patterns, in linear as well as curvilinear portions of the building, all complete as per the architectural drawings with tile of size 800mm x 800mm of approved shade, color and texture The tiles shall be supplied to site in packed condition in wooden boxes and laid in approved design and pattern over duly cured and dried 15 mm (average) thick correction layer base of cement mortar 1:4 (1 cement: 4 coarse sand) followed by laying and fixing with white colour stone adhesive of category C2 TE (minimum) in compliance with ISO 13007-1 EN 12004/12002 with average 6mm thickness and jointed with 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including making provisions of expansion joints, rubbing and curing etc. complete at all levels.(As per approved samples available at AAI offices at Delhi )</p> <p>After completion of all activities flooring shall be cover with polyethylene sheet of minimum 200 micron and 10 mm thick plaster of Paris to avoid damage to flooring during other works. At final stage of building work POP &amp; Polythene sheet shall be removed and final cleaning and buffing if any shall be completed to the satisfaction of Engineer-In-Charge.</p> <p>Note: - (i) The process includes cost of granite stone tile including cutting&amp; wastage due to design and patterns in linear as well as curvilinear pattern as per architectural drawings, Pre-polishing, laying with mortar, drying, adhesive, fixing, grouting joints with epoxy grout, spacers &amp; covering top surface after all treatment with POP &amp; Polythene sheet etc. and removal of same and thereafter cleaning buffing etc. complete.</p> <p>(ii) At site no cutting/grinding of granite tile is permitted. Edges of the slabs shall be true, square and free from chippings and the surface shall be true and plane otherwise tile shall be rejected and nothing extra shall be payable.</p> | Sqm | 3819.10 |
| 150 | <p>Extra over and above of Item no 77 &amp; 78 for Leathered finishing of polished granite stone as per approved by Engineer in charge. Complete at all levels to complete satisfaction of Engineer-In-Charge.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sqm | 230.30  |

Note:

- All rates given in Schedule 'A' are inclusive of @ 14.05% considered towards GST.
- The payment of items shall be regulated as below:
  - Schedule of Rates as per DSR 2021 items and Additional Miscellaneous Items (Subhead I and Subhead II)  
Rate of Item as per Schedule = X
  - Rate to be considered for payment: =  $(X / 1.1405) \times (100 \pm \text{Quoted Percentage Rate})$
  - The applicable GST will be paid extra.

100  
Signature Not Verified

Digitally signed by K. NARASIMHA RAO  
Date: 2024.02.28 15:17:58 IST  
Location: eProcurement System for  
Central PSUs  
मा.वि.प्र. तिरुचि हवाई अड्डा, तिरुचि - 620 007.  
AAI, Tiruchy Airport, Tiruchy- 620 007.