

| Schedule of Work                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |        |         |       |             |          |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|-------|-------------|----------|
| <b>Name Of Work:</b> Renovation of controlled environment plant growth facility at Biotechnology unit ICAR, CRIJAF, Barrackpore. |                                                                                                                                                                                                                                                                                                                                                                      |        |         |       |             |          |
| Sl.No.                                                                                                                           | Description of Items                                                                                                                                                                                                                                                                                                                                                 | Qty    | Rate    | Unit  | Amount      | Remarks  |
|                                                                                                                                  | <b>ELECTRICAL COMPONENT</b>                                                                                                                                                                                                                                                                                                                                          |        |         |       |             |          |
| <b>1</b>                                                                                                                         | <b>SH-IDSr-2025 )</b>                                                                                                                                                                                                                                                                                                                                                |        |         |       |             |          |
| 1.1                                                                                                                              | Wiring for light point/ fan point/ exhaust fan point/ callbell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required. |        |         |       |             | DSR 2025 |
| 1.1.1                                                                                                                            | Group B                                                                                                                                                                                                                                                                                                                                                              | 20.00  | 1362.00 | Pts   | ₹ 27,240.00 | 1.10.3   |
| 1.2                                                                                                                              | Wiring for light/ power plug with 2X4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable for loop earthing as required.                                                                                            | 150.00 | 373.00  | Metre | ₹ 55,950.00 | 1.12     |
| 1.3                                                                                                                              | Wiring for light/ power plug with 4X4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 2 Nos. 4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable for loop earthing as required.                                                                                           | 70.00  | 587.00  | Metre | ₹ 41,090.00 | 1.13     |
| 1.4                                                                                                                              | Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.                                                                                                                                                          |        |         |       |             |          |
| 1.4.1                                                                                                                            | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                                           | 20.00  | 267.00  | Mtrs  | ₹ 5,340.00  | 1.14.1   |
| 1.4.2                                                                                                                            | 4 X 6 sq. mm + 2 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                                               | 30.00  | 813.00  | Mtrs  | ₹ 24,390.00 | 1.14.9   |
| 1.4.3                                                                                                                            | 4 X 16 sq.mm + 2 X 6 sq. mm earth wire (for connection from controller 1&2 to vdb)                                                                                                                                                                                                                                                                                   | 30.00  | 1454.00 | Mtrs  | ₹ 43,620.00 | 1.14.11  |
| 1.5                                                                                                                              | Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.                                                                                                                                                                                                                          |        |         |       |             |          |
| 1.5.1                                                                                                                            | 1 or 2 Module (75mmX75mm)                                                                                                                                                                                                                                                                                                                                            | 16.00  | 354.00  | Each  | ₹ 5,664.00  | 1.27.1   |
| 1.6                                                                                                                              | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess,including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).                                                            | 6.00   | 757.00  | Each  | ₹ 4,542.00  | 1.56     |
| 1.7                                                                                                                              | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.                                                                                                                          | 20.00  | 659.00  | Nos   | ₹ 13,180.00 | 1.32     |
| 1.8                                                                                                                              | Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.                                | 8.00   | 1806.00 | Each  | ₹ 14,448.00 | 2.18     |
| 1.9                                                                                                                              | Supplying and fixing following way, single pole and neutral, sheet steel, with MCB distribution board, 240 V, on surface/ recess, complete tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)                                                         |        |         |       |             | 2.3      |
| 1.9.1                                                                                                                            | 12 way , Double door                                                                                                                                                                                                                                                                                                                                                 | 1.00   | 2871.00 | Each  | ₹ 2,871.00  | 2.3.3    |
| 1.10                                                                                                                             | Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)                                          |        |         |       |             | 2.4      |
| 1.10.1                                                                                                                           | 8 way (4 + 24), Double door                                                                                                                                                                                                                                                                                                                                          | 2.00   | 6337.00 | Each  | ₹ 12,674.00 | 2.4.3    |
| 1.11                                                                                                                             | Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, Ics=100% Icu and Operational Voltage 690V etc. as required.                                                                              |        |         |       |             | 2.2      |
| 1.11.1                                                                                                                           | 125 A,36KA,FPMCCB                                                                                                                                                                                                                                                                                                                                                    | 1.00   | 8644.00 | Each  | ₹ 8,644.00  | 2.2.14   |
| 1.12                                                                                                                             | Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.                                                                                                                                          | 2.00   | 7658.00 | Each  | ₹ 15,316.00 | 5.2      |
| 1.13                                                                                                                             | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.                                                                                                                                                                        | 12.00  | 755.00  | Metre | ₹ 9,060.00  | 5.11     |
| 1.14                                                                                                                             | Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.                                                                                                                                                                                                                                                               | 20.00  | 287.00  | Metre | ₹ 5,740.00  | 5.15     |

| Sl.No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Qty   | Rate     | Unit | Amount       | Remarks |
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| 1.15   | <b>LED Batten light (System lumen efficacy <math>\geq 105 &lt; 120</math> lm/Watt)</b><br>Supplying, Installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency $> 85\%$ , Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range $-5^{\circ}\text{C}$ to $40^{\circ}\text{C}$ , internal surge protection of 2.5 KV with Short & Open circuit protection, THD $< 10\%$ , P.F. $\geq 0.95$ , IP20, CRI $> 80$ , Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) $< 3$ , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105 < 120$ lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in- Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above $90^{\circ}\text{C}$ ). Powder Coated CRCA Sheet Body (Thickness $> 0.50$ mm) |       |          |      |              |         |
| 1.15.1 | 18- 22 watt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20.00 | 629.00   | Each | ₹ 12,580.00  | 8.9.5   |
| 1.16   | <b>WINDOW AC UNITS</b><br>Supplying , Installation, Testing and Commissioning of Window type Air conditioners complete with copper power cable upto 3 Mtr, wireless Remote, suitable for working between 180- 260V with low & high voltage cutoff and 50 hz ,1 phase AC supply capable of performing, cooling, dehumidification, air circulation, R-32/R-410A /R-407B Green Refrigerant with Scroll / rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB), antifreeze thermostat on the coil as a safety feature, complete with fixing including T&P & labour etc as required complete in all respect as specified of following capacity. Sound level of up to 50dB inside the room is acceptable. The unit shall be in confirmation with IS 1391 Part-I 2023 and CPWD Specification. The system shall be able to deliver 100% of the rated capacity upto 42 OC. The system shall be able to operate up to 50 OC (out door ambient temperature).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |          |      |              |         |
|        | Inverter Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |          |      |              |         |
| 1.16.1 | 1.5 TR with Inverter 5 Star BEE rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.00  | 40074.00 | Each | ₹ 320,592.00 | 32.1.4  |
| 1.17   | <b>DIESEL GENERATOR SET</b><br>Supplying, Installation, Testing & Commissioning of 'Silent Type Diesel Generating set as per CPCB IV + or better norms along with having Prime Power Rating of KVA as below, 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 phase system & for 0.85 Load Factor, including testing at factory and site with fuel, load for test and other necessary arrangements Complete as per CPWD specifications, should have QR code which should contain drawing, test report OEM manual, Geo Tag of manufacturing location, rating plate as per relevant IS Code etc. and consisting of the followings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |          |      |              |         |
|        | (A) Diesel Engine:<br>Turbocharged Diesel engine 4 stroke water cooled, multi cylinder, dynamically balanced fly wheel, electric start of suitable BHP at 1500 RPM suitable for above output of alternator at 40 OC, 50% RH & at 1000 Meter MSL , capable of taking 10% over loading for one hour mafter 12 hours of continuous operation. The engine will be with Electronic governor, Dry type Air filter with service indicator, first filling of engine fuel (after commissioning) lubricating Oil, Coolant and other consumables complete with all the required accessories, the Electronic governor shall be as per ISO 8528.The engine shall comply to the latest CPCB norms (CPCB IV + or better) and Conforming to BS 5514, BS 649, IS 10000, IS 10002, IS 13018 and as per CPWD specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |          |      |              |         |

| Sl.No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Qty | Rate | Unit | Amount | Remarks |
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|        | <p>(B) Engine mounted Instrument Panel fitted with and having digital dis Plate for following:</p> <p>(i) Start-stop switch with key</p> <p>(ii) Water temperature indication</p> <p>(iii) Lubrication oil pressure indication</p> <p>(iv) Lubrication oil temperature indication</p> <p>(v) Battery charging indication and Voltage indication</p> <p>(vi) RPM indication</p> <p>(vii) Over speed indication</p> <p>(viii) Low lubrication Oil trip indication</p> <p>(ix) Engine Running Hours indication</p>                                                                                                                     |     |      |      |        |         |
|        | <p>(C) Alternator:</p> <p>Synchronous alternator rated of appropriate KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 OC, 50% RH &amp; at 1000</p> <p>Meter MSL. The alternator shall be having Screen Protected Drip Proof (SPDP) enclosure IP23, brushless, continuous duty, dynamically balanced</p> <p>rotor, capable of taking 10% over loading for one hour after 12 hours of continuous operation, self cooled, self-excited and self-regulated through AVR</p> <p>conforming to IS13364(Part 2)/IS: 4722/BS 2613 suitable for tropical conditions and with class H insulation.</p> |     |      |      |        |         |
|        | <p>(D) Base Frame &amp; Foundation:</p> <p>Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer.</p>                                                                                                                                                                                                                                                                                                                   |     |      |      |        |         |
|        | <p>(E) FUEL TANK:</p> <p>Daily service fuel tank of suitable liters capacity as per CPWD Specifications, fabricated out of 3 mm thick m.M.S. sheet complete with all standard accessories and</p> <p>fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. Complete with valves, level indications &amp; accessories as required as per specifications</p>                                                                                                                                                                                                                                       |     |      |      |        |         |
|        | <p>(F) Exhaust System:</p> <p>Dry exhaust manifold with hospital type exhaust silencer and catalytic convertor.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |      |        |         |
|        | <p>(G) Starting System:</p> <p>12V/24V DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable numbers of batteries m(180 AH capacity lead acid SMF type) as required as per specifications. The battery shall be housed inside the acoustic enclosure of DG Set.</p>                                                                                                                                                                                                                                                                                      |     |      |      |        |         |
|        | <p>(H) Acoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine &amp; alternator, extraction, discharging hot air in to the atmosphere and the temperature rise inside the enclosure, noise level outside enclosure. The acoustic enclosure should be suitable for cable connection/connection through bus-trunking. Such arrangements on acoustic enclosure should be water proof &amp; dust-proof conforming to IP-65 protection. The enclosure shall be as per CPCB IV + or better norms etc. and as per CPWD specifications.</p>                                                    |     |      |      |        |         |

| Sl.No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Qty    | Rate      | Unit  | Amount                | Remarks |
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|        | <b>(D) AMF Panel:</b><br>Free standing floor mounted IP 42 automatic mains failure control panel including auto by-pass, suitable for KVA as below for silent type DG set complete with relays, timers, set of CTs for metering & protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, Kilo Volt Ampere Relative Hour (KVARH), KVA (Phase & Total), KW & provision for overload, short circuit, restricted earth fault, under frequency, power (aluminum) and control (copper ) cabling of suitable size upto 15 meter between AMF panel, LT Panel and DG Set including connection interconnection etc. as required, all complete and inter locking and communication/ Ethernet /RS485/SNMP port open protocol for BMS integration including suitable software, the panel shall be of DG Set OEM make etc. as per approved by Engineering in charge and including the following:<br>1.Suitable numbers and appropriate capacity 4 pole motorised electrically operated draw out with cradle type 3 position ACB/ MCCB with electronic release for O/C & E/F and shunt trip.<br>2. Auto/Manual/Test/Off selector switch<br>3. Protection for under and over voltage phase reversal (2 nos Over voltage relay, 2 Nos. reverse power relay and 2 Nos. under voltage relay).<br>4. 3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering Energy analyser unit to indicate current, Voltage( L-N & L-L), kW, kVA (Phase & Total), Frequency, KWH, PF.<br>6. LED Indicating lamps for load on mains and load on set.<br>7. Fuse/ MCB for instruments.<br>8. Battery charger, complete with transformer/ rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment.<br>9. Main supply failure monitor.<br>10. Supply failure timer.<br>11. Restoration timer<br>12. Control unit with three impulse automatic engine start/stop and failure to start lockout.<br>13. Impulse counter with locking and reset facility.<br>14. ON/OFF/Control circuit switch with indicator<br>15. Audio/Video annunciation for<br>(i) High water temperature<br>(ii) Low lubricating oil pressure<br>(iii) Engine over speed<br>(iv) Engine fails to start<br>(v) Full load/maximum load warning<br>16. Protection for over/under Frequency, Loss of AC sensing, Over Current, Unbalancing load with suitable number of relays and accessories<br>17. Maintenance notification based on Engine Run Hour & due date.<br>18. Load Management through PLC to achieve auto opening and closing of incomer breakers, bus coupler switching of essential panel , interlocking providing signal to AMF Panel for load status and AMF shall give command to DG Set to auto start / auto stop depending upon 62.5KVA |        |           |       |                       |         |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.00   | 597453.00 | Each  | ₹ 597,453.00          | 29.1.5  |
| 1.18   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |           |       |                       | 2.10    |
| 1.18.1 | Single pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 58.00  | 285.00    | Each  | ₹ 16,530.00           | 2.10.1  |
| 1.18.2 | Double pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.00   | 696.00    | Each  | ₹ 696.00              | 2.10.3  |
| 1.18.3 | Triple pole and neutral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.00   | 1301.00   | Each  | ₹ 2,602.00            | 2.10.5  |
| 1.18.3 | Triple pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.00   | 1070.00   | Each  | ₹ 2,140.00            | 2.10.4  |
| 1.20   | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |           |       |                       |         |
| 1.20.1 | 6 pin 15/16 A socket outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8.00   | 219.00    | Each  | ₹ 1,752.00            | 1.24.5  |
| 1.21   | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |           |       |                       |         |
| 1.21.1 | Upto 35 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 70.00  | 47.00     | Meter | ₹ 3,290.00            | 10.5.1  |
| 1.21.2 | Above 35 sq. mm and upto 95 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150.00 | 72.00     | Meter | ₹ 10,800.00           | 10.5.2  |
|        | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |           |       |                       |         |
| 1.21.1 | Upto 35 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.00  | 36.00     | Meter | ₹ 360.00              | 10.5.1  |
| 1.21.2 | Above 35 sq. mm and upto 95 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20.00  | 58.00     | Meter | ₹ 1,160.00            | 10.5.2  |
|        | <b>Total SH-I(DSR 2025 )</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |           |       | <b>₹ 1,259,724.00</b> |         |

| Sl.No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Qty   | Rate      | Unit | Amount       | Remarks |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|------|--------------|---------|
| 2      | <b>SH-II(NSR Item)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |           |      |              |         |
| 2.1    | Supplying, installation, Testing & Commissioning of LED plant grow lights suspended from ceiling/mounting structure of wattage not less than 70 watts(+/- 5%), ePAR coverage :(400-750 nm) to support complete growth cycle of plants, with high intensity LED 's of 3.4 Micro mole/Joule, Metal housing, IP 54 or better rated along with suspension kits, suitable for operation on 240V, 50Hz AC including connection with loop boxes etc complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12.00 | 7797.00   | Each | ₹ 93,564.00  | MR      |
| 2.2    | Supplying and fixing following modular switch/ socket/Starter on the existing modular plate & switch box including connections but excluding modular plate etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |           |      |              |         |
| 2.2.1  | 16 Amp AC starter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8.00  | 651.00    | Each | ₹ 5,208.00   | MR      |
| 2.3    | Supplying, installation, Testing & Commissioning of Air Curtain, minimum 4 feet width including on/off Switch, magnetic sensors, Blowers : 4nos, Motors : 2nos, suitable for operation of 220V/50HZ including connection complete as required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.00  | 24621.00  | Each | ₹ 49,242.00  | MR      |
| 2.4    | <p>Fabrication &amp; Supplying of Indoor type cubical LT panel, IP 42, suitable for 415V, 3 phase, 4 wire, 50Hz AC supply system of suitable size fabricated in compartmentalized design from CRCA sheet steel of 2 mm thick for frame work and cover, 3 mm thick for gland plates, with phosphatised power coated paint ( 7 tank process for powder coating) having busbar of suitable size with heat shrink sleeved, DMC/SMC bus bar supports, Fabrication shall be done in transportable sections, entire panel shall have a common GI earth bar of size 25 mm x 5 mm earth bar 2Nos, and control wiring with 2.5 sq. mm FRLS PVC insulated copper conductor, cable gland plates i/c supply &amp; fixing of following switch gears therein.</p> <p><b>Incomer:</b><br/> 63 amps, 4 pole 18/16 KA, thermal magnetic release MCCB-1no, Ics=100 %Icu--1no<br/> Digital Multi function meter -1no<br/> CT 60/5 A- 3 nos</p> <p><b>BUSBAR:</b> 100 A 4 strip Copper Busbar with current density not exceeding 160 A /Sqcm</p> <p><b>Out Going:</b><br/> 1. Digital Thermostat Temperature and Humidity Regulating Device suitable for operation with AC 220V, 50 Hz complete with sensor including connection with existing cooling machine for control of operation of cooling machine and dehumidifier including connection etc.<br/> 2. Always 2nos machine will run and 2 nos AC machine will as stand by. The Operation of AC machines will be done through automatic change over switch or Timer Circuit<br/> 3 .Automatic time switch of following configuration to be mounted in panel board for automatic switching On &amp; OFF of electrical equipment( window AC unit) (Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication complete (2 output per phase and suitable for single phase supply)<br/> 4. Suitable Size single phase power contractor-4 nos(for Operation of 4 nos acs 2nos ACs control from one contractor)</p> | 2.00  | 89113.00  | Each | ₹ 178,226.00 | MR      |
| 2.5    | <p>Fabrication &amp; Supplying of double door outdoor type feeder pillar, IP 54, suitable for 415V, 3 phase, 4 wire, 50Hz AC supply system of suitable size fabricated in compartmentalized design from CRCA sheet steel of 2 mm thick for frame work and cover, 3 mm thick for gland plates, with phosphatised power coated paint (7 tank process for powder coating) having busbar of suitable size with heat shrink sleeved, DMC/SMC bus bar supports, bottom base channel of MS section not less than 75 mm x 40 mm x 5 mm thick, Fabrication shall be done in transportable sections, entire feeder pillar shall have a common GI earth bar of size 25 mm x 5 mm earth bar 2Nos, solid connectins from main bus bar to switch gears with suitable size Alu. bus bars and control wiring with 2.5 sq. mm FRLS PVC insulated copper conductor S/C cable, cable gland plates i/c supply &amp; fixing of following switch gears therein.</p> <p><b>INCOMING</b><br/> 400A 36kA 4 Pole MCCB, Ics=100% Icu rating Thermal Magnetic having O/L, S/C,E/F protection, including extended rotary operated mechanism and spreader link, suitable capacity Digital Multifunction meter &amp; 400/5ACTs etc. LED type RYB phase indicating lamps with 6A SP 10 kA MCB, ON, OFF, trip indicating lamps</p> <p><b>BUSBAR:</b> 500 Amps, 4 strip ALuminium Busbar with 100% neutral and current density not exceeding 130 A /Sqcm</p> <p><b>OUTGOING</b><br/> 1. 125 A 36 KA Four pole MCCB-4nos.( Icu=100% Ics at 415 V, 50 Hz with thermal-magnetic based O/L, S/C including extended rotary operated mechanism,-4 nos<br/> 2. 250 A,36 KA Four pole MCCB-1no..( Icu=100% Ics at 415 V, 50HZ with thermal-magnetic based O/L, S/C including extended rotary operated mechanism,-2 nos</p>                                                                                                                                                                                                                                     | 1.00  | 338628.00 | Each | ₹ 338,628.00 | MR      |

| Sl.No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                           | Qty    | Rate      | Unit  | Amount         | Remarks |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------|----------------|---------|
| 2.6    | Supplying and fixing of following ways surface/ recess mounting,MCCB incomer vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and MCCB incomer ) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) |        |           |       |                |         |
| 2.6.1  | 8 way (4 + 24), Double door                                                                                                                                                                                                                                                                                                                                                                                                    | 1.00   | 16139.00  | Each  | ₹ 16,139.00    | MR      |
| 2.7    | Supplying of following sizes of Aluminium conductor XLPE insulated PVC sheathed galvanized wire/strip armoured power cable of 1.1KV grade and conforming to IS7098 (Part1)1988 amended up to date, at site of work etc as required                                                                                                                                                                                             |        |           |       |                | MR      |
| 2.7.1  | 3.5x95 sqmm(from AMF to VTPN DB)                                                                                                                                                                                                                                                                                                                                                                                               | 100.00 | 1305.00   | Metre | ₹ 130,500.00   | MR      |
| 2.7.2  | 3.5x70 sqmm(From feeder pillar to AMF panel)                                                                                                                                                                                                                                                                                                                                                                                   | 70.00  | 1033.00   | Metre | ₹ 72,310.00    | MR      |
| 2.7.3  | 3.5x35 sqmm(From VTPN DB to Tissue culture lab)                                                                                                                                                                                                                                                                                                                                                                                | 80.00  | 575.00    | Metre | ₹ 46,000.00    | MR      |
| 2.8    | Supplying, installation, Testing & Commissioning of heavy duty dehumidifier that can maintain level 30%RH to 80% RH, air flow not less than 950 metre cube/hr,moisture extraction rate of minimum 110Litre /day, noise level not more than 60 dB including connection,refrigereant R-32/R-410A /R-407B/R410 or similar, ambient temperature for operation 5-38 degree celcius or better etc. as required.                      | 1.00   | 194475.00 | Each  | ₹ 194,475.00   | MR      |
| 2.9    | Supplying, installation, Testing & Commissioning of CO2 type Fire Extinguisher ISI marked conforming to IS: 15683. of following Capacity Complete with delivery hose horn, wheel type release valve, locking arrangement, operation manual and bracket etc as required.                                                                                                                                                        |        |           |       |                | MR      |
| 2.9.1  | 4.5 Kg                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.00   | 7076.00   | Each  | ₹ 28,304.00    | MR      |
| 2.10   | Supplying, installation, Testing & Commissioning of Powder Fire Extinguisher (Stored Pressure type) of following Capacity duly ISI marked conforming to IS: 15683:2018, with IS 4308, ISI marked ABC powder complete with squeeze grip release valve, discharge pipe, locking arrangement, pressure gauge, operation manual and bracket etc. as required.                                                                      |        |           |       |                | MR      |
| 2.10.1 | 4 Kg                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.00   | 2145.00   | Each  | ₹ 8,580.00     | MR      |
| 2.11   | Supplying and fixing 415 volts, minimum 10kA ,"C" curve , miniature circuit breaker suitable for inductive load of following rating and poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.                                                                                                                                                                                    |        |           |       |                |         |
| 2.11.1 | 63 A TP(Outgoings of VTPN DB for controller 1 and 2)                                                                                                                                                                                                                                                                                                                                                                           | 2.00   | 2050.00   | Each  | ₹ 4,100.00     | MR      |
| 2.12   | Supplying and fixing of cable loop box for cable entry and exit of min size 130 X 130 X 77 mm suitable for cable size upto 4 sqmm rated IP 66 with metric knockouts , Din channel and 6A C curve MCB for protection etc complete as required.                                                                                                                                                                                  | 12.00  | 1028.00   | Each  | ₹ 12,336.00    | MR      |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                |        |           |       |                |         |
|        | <b>Total SH-II(NSR Item)</b>                                                                                                                                                                                                                                                                                                                                                                                                   |        |           |       | ₹ 1,177,612.00 |         |
|        | <b>Total SH-I+SH-II</b>                                                                                                                                                                                                                                                                                                                                                                                                        |        |           |       | ₹ 2,437,336.00 |         |
|        | <b>Add cost index as on 20/07/2026 vide letter no 34(1)/SDG(Kol)/Cost Index/2026/915 dtd 19/05/2026 for Barasat/Barrackpore =115 on base 100 for DSR-25 items (on Rs. 1259724.00)</b>                                                                                                                                                                                                                                          |        |           |       | ₹ 188,958.60   |         |
|        | <b>Grand Total FOR ELECTRICAL COMPONENT</b>                                                                                                                                                                                                                                                                                                                                                                                    |        |           |       | ₹ 2,626,295.00 |         |

|          | CIVIL COMPONENT                                                                                                                                                                                                                                                                            |     |         |     |             |          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-----|-------------|----------|
| <b>1</b> | <b>EARTH WORK</b>                                                                                                                                                                                                                                                                          |     |         |     |             | <b>2</b> |
| 1.1      | Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge. |     |         |     |             | 2.6      |
| 1.1.1    | All kinds of soil                                                                                                                                                                                                                                                                          | 65  | 177.50  | cum | ₹ 11,537.50 | 2.6.1    |
| 1.2      | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lif.                                                        | 10  | 196.00  | cum | ₹ 1,960.00  | 2.25     |
| 1.3      | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.                                                                                                                                                                  | 9.5 | 2123.75 | cum | ₹ 20,175.63 | 2.27     |
|          | <b>Sub-Total</b>                                                                                                                                                                                                                                                                           |     |         |     | ₹ 33,673.13 |          |
| <b>2</b> | <b>CEMENT CONCRETE (CAST IN SITU)</b>                                                                                                                                                                                                                                                      |     |         |     |             | <b>4</b> |
| 2.1      | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :                                                                                                                                         |     |         |     |             | 4.1      |
| 2.1.1    | 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)                                                                                                                                        | 3.2 | 7878.50 | cum | ₹ 25,211.20 | 4.1.3    |
| 2.1.2    | 1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)                                                                                                                                      | 7   | 6518.60 | cum | ₹ 45,630.20 | 4.1.10   |
| 2.2      | Centering and shuttering including strutting, propping etc. and removal of form work for:                                                                                                                                                                                                  |     |         |     |             | 4.3      |
| 2.2.1    | Foundations, footings, bases for columns                                                                                                                                                                                                                                                   | 4   | 392.15  | sqm | ₹ 1,568.60  | 4.3.1    |

| Sl.No.   | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Qty  | Rate     | Unit  | Amount       | Remarks   |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------|--------------|-----------|
| 2.3      | Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.                                                                                                  | 16   | 749.30   | sqm   | ₹ 11,988.80  | 4.17      |
|          | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |       | ₹ 84,398.80  |           |
| <b>3</b> | <b>REINFORCED CEMENT CONCRETE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |       |              | <b>5</b>  |
| 3.1      | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :                                                                                                                                                                                                                                                                                                                             |      |          |       |              | 5.1       |
| 3.1.1    | 1:1.5:3(1 cement: 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)                                                                                                                                                                                                                                                                                                                                                                | 12   | 9045.75  | cum   | ₹ 108,549.00 | 5.1.2     |
| 3.2      | Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement:                                                                                                                                                                                                   |      |          |       |              | 5.2       |
| 3.2.1    | 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)                                                                                                                                                                                                                                                                                                                                                               | 2    | 10852.95 | cum   | ₹ 21,705.90  | 5.2.2     |
| 3.3      | Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).                        | 2.4  | 11505.50 | cum   | ₹ 27,613.20  | 5.3       |
| 3.4      | Centering and shuttering including strutting, propping etc. and removal of form for                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |       |              | 5.9       |
| 3.4.1    | Foundations, footings, bases of columns, etc. for mass concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 55   | 392.15   | sqm   | ₹ 21,568.25  | 5.9.1     |
| 3.4.2    | Lintels, beams, plinth beams, girders, bressumers and cantilevers                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20   | 736.40   | sqm   | ₹ 14,728.00  | 5.9.5     |
| 3.4.3    | Columns, Pillars, Piers, Abutments, Posts and Struts                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6    | 961.30   | sqm   | ₹ 5,767.80   | 5.9.6     |
| 3.5      | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.                                                                                                                                                                                                                                                                                                                                                                       |      |          |       |              | 5.22      |
| 3.5.1    | Thermo-Mechanically Treated bars of grade Fe-500D or more.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1800 | 107.85   | kg    | ₹ 194,130.00 | 5.22.6    |
| 3.6      | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.                                                                                                                                                                                                                                                                                                                                                                      |      |          |       |              | 5.22A     |
| 3.6.1    | Thermo-Mechanically Treated bars of grade Fe-500D or more.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 585  | 107.85   | kg    | ₹ 63,092.25  | 5.22A.6   |
|          | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |       | ₹ 457,154.40 |           |
| <b>4</b> | <b>MASONRY WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |       |              | <b>6</b>  |
| 4.1      | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |       |              | 6.1       |
| 4.1.1    | Cement mortar 1:6(1 cement :6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3    | 7132.25  | cum   | ₹ 21,396.75  | 6.1.2     |
| 4.2      | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :                                                                                                                                                                                                                                                                                                                                         |      |          |       |              | 6.4       |
| 4.2.1    | Cement mortar 1:6(1 cement : 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6    | 9105.95  | cum   | ₹ 54,635.70  | 6.4.2     |
|          | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |       | ₹ 76,032.45  |           |
| <b>5</b> | <b>CLADDING WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |       |              | <b>8</b>  |
| 5.1      | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3(1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. | 15   | 1267.95  | sqm   | ₹ 19,019.25  | 8.31      |
|          | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |       | ₹ 19,019.25  |           |
| <b>6</b> | <b>STEEL WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |       |              | <b>10</b> |
| 6.1      | Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.                                                                                                                                                          | 3.15 | 11439.60 | sqm   | ₹ 36,034.74  | 10.3      |
| 6.2      | Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.                                                                                                                                                                                                                                          |      |          |       |              | 10.16     |
| 6.2.1    | Hot finished welded type tubes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1300 | 194.40   | kg    | ₹ 252,720.00 | 10.16.1   |
|          | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |       | ₹ 288,754.74 |           |
| <b>7</b> | <b>FLOORING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |       |              | <b>11</b> |
| 7.1      | Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.                                                                | 100  | 1330.00  | sqm   | ₹ 133,000.00 | 11.39     |
|          | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |       | ₹ 133,000.00 |           |
| <b>8</b> | <b>ROOFING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |       |              | <b>12</b> |
| 8.1      | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.                                                                                                                                                                                                                                                                           |      |          |       |              | 12.41     |
| 8.1.1    | 110 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7    | 377.40   | metre | ₹ 2,641.80   | 12.41.2   |
| 8.2      | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS :5382, leaving 10 mm gap for thermal expansion.                                                                                                                                                                                                                                                 |      |          |       |              | 12.42     |

| Sl.No.    | Description of Items                                                                                                                                                                                                                                                                                                                                                                                              | Qty  | Rate    | Unit  | Amount      | Remarks   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|-------|-------------|-----------|
| 8.2.1     | Bend 87.5°                                                                                                                                                                                                                                                                                                                                                                                                        |      |         |       |             | 12.42.5   |
| 8.2.1.1   | 110 mm bend                                                                                                                                                                                                                                                                                                                                                                                                       | 2    | 150.35  | each  | ₹ 300.70    | 12.42.5.2 |
|           | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |         |       | ₹ 2,942.50  |           |
| <b>9</b>  | <b>FINISHING</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |         |       |             | <b>13</b> |
| 9.1       | 12 mm cement plaster of mix:                                                                                                                                                                                                                                                                                                                                                                                      |      |         |       |             | 13.4      |
| 9.1.1     | 1:6 (1 cement: 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                     | 30   | 343.65  | sqm   | ₹ 10,309.50 | 13.4.2    |
| 9.2       | 15 mm cement plaster on rough side of single or half brick wall of mix:                                                                                                                                                                                                                                                                                                                                           |      |         |       |             | 13.5      |
| 9.2.1     | 1:6(1 cement: 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                      | 30   | 395.35  | sqm   | ₹ 11,860.50 | 13.5.2    |
| 2.2       | 6 mm cement plaster of mix:                                                                                                                                                                                                                                                                                                                                                                                       |      |         |       |             | 13.16     |
| 2.2.1     | 1:3(1 cement :3 fine sand)                                                                                                                                                                                                                                                                                                                                                                                        | 20   | 300.45  | sqm   | ₹ 6,009.00  | 13.16.1   |
| 9.3       | Finishing walls with ready mixed Premium acrylic emulsion paint (Company Depot Tinted) having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade with silicon additives.                                                                                                                                              |      |         |       |             | 13.48A    |
| 9.3.1     | New work (Two or more coats applied @ 1.43 litre/ 10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.                                                                                                                                                                                                                                                                          | 90   | 181.25  | sqm   | ₹ 16,312.50 | 13.48A.1  |
| 9.4       | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:                                                                                                                                                                                                                                                                                                  |      |         |       |             | 13.62     |
| 9.4.1     | Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture                                                                                                                                                                                                                                                                                          | 75   | 226.25  | sqm   | ₹ 16,968.75 | 13.62.1   |
| 9.5       | Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.                                                                                                                                         |      |         |       |             | 13.83     |
| 9.5.1     | Two coats                                                                                                                                                                                                                                                                                                                                                                                                         | 30   | 142.80  | sqm   | ₹ 4,284.00  | 13.83.2   |
| 9.6       | Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.                                                                                                                                                                                                                                                                                        |      |         |       |             | 13.85     |
| 9.6.1     | With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre                                                                                                                                                                                                                                                                                                                    | 30   | 73.95   | sqm   | ₹ 2,218.50  | 13.85.3   |
|           | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |         |       | ₹ 67,962.75 |           |
| <b>10</b> | <b>REPAIRS TO BUILDING</b>                                                                                                                                                                                                                                                                                                                                                                                        |      |         |       |             | <b>14</b> |
| 10.1      | Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                   | 50   | 3.45    | sqm   | ₹ 172.50    | 14.83     |
|           | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |         |       | ₹ 172.50    |           |
| <b>11</b> | <b>Dismantling and Demolishing</b>                                                                                                                                                                                                                                                                                                                                                                                |      |         |       |             | <b>15</b> |
| 11.1      | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in charge.                                                                                                                                                                                                                                                          |      |         |       |             | 15.2      |
| 11.1.1    | Nominal concrete 1:3:6 or richer mix (including equivalent design mix)                                                                                                                                                                                                                                                                                                                                            | 3    | 2434.25 | cum   | ₹ 7,302.75  | 15.2.1    |
| 11.2      | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.                                                                                                                                                                                                              |      |         |       |             | 15.7      |
| 11.2.1    | In cement mortar                                                                                                                                                                                                                                                                                                                                                                                                  | 6    | 2060.20 | cum   | ₹ 12,361.20 | 15.7.4    |
| 11.3      | Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.                                                                                                                                                                                                 | 350  | 5.65    | kg    | ₹ 1,977.50  | 15.18     |
| 11.4      | Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:                                                                                                                                                                                                                                                                                         |      |         |       |             | 15.28     |
| 11.4.1    | G.S. Sheet                                                                                                                                                                                                                                                                                                                                                                                                        | 49.5 | 164.95  | sqm   | ₹ 8,165.03  | 15.28.1   |
| 11.5      | Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.                                                                                                      | 15   | 263.95  | cum   | ₹ 3,959.25  | 15.6      |
|           | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |         |       | ₹ 33,765.73 |           |
| <b>12</b> | <b>SANITARY INSTALLATIONS</b>                                                                                                                                                                                                                                                                                                                                                                                     |      |         |       |             | <b>17</b> |
| 12.1      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:                                                                                                                                                                                    |      |         |       |             | 17.7      |
| 12.1.1    | White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap                                                                                                                                                                                                                                                                                                                 | 1    | 1879.20 | each  | ₹ 1,879.20  | 17.7.4    |
| 12.2      | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.                                                                                                                                                                                                        | 1    | 1607.95 | each  | ₹ 1,607.95  | 17.31     |
| 12.3      | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :                                                                                                                                                                                                                        |      |         |       |             | 17.6      |
| 12.3.1    | 100 mm inlet and 100 mm outlet                                                                                                                                                                                                                                                                                                                                                                                    |      |         |       |             | 17.60.1   |
| 12.3.1.1  | Sand cast iron S&S as per IS: 3989                                                                                                                                                                                                                                                                                                                                                                                | 1    | 1996.50 | each  | ₹ 1,996.50  | 17.60.1.1 |
| 12.4      | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.                                                                                                                                                                                                                                       |      |         |       |             | 17.73     |
| 12.4.1    | 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.                                                                                                                                                                                                                                                                                    | 1    | 708.95  | each  | ₹ 708.95    | 17.73.2   |
|           | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |         |       | ₹ 6,192.60  |           |
| <b>13</b> | <b>WATER SUPPLY</b>                                                                                                                                                                                                                                                                                                                                                                                               |      |         |       |             | <b>18</b> |
| 13.1      | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall |      |         |       |             | 18.7      |
| 13.1.1    | 20 mm nominal dia Pipes                                                                                                                                                                                                                                                                                                                                                                                           | 6    | 335.00  | metre | ₹ 2,010.00  | 18.7.2    |
| 13.2      | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work                                                   |      |         |       |             | 18.9      |
| 13.2.1    | 40 mm nominal dia Pipes                                                                                                                                                                                                                                                                                                                                                                                           | 20   | 563.05  | metre | ₹ 11,261.00 | 18.9.5    |

| Sl.No.    | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Qty | Rate    | Unit      | Amount         | Remarks   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-----------|----------------|-----------|
| 13.3      | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 500 | 11.00   | per litre | ₹ 5,500.00     | 18.48     |
| 13.4      | Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |         |           |                | 18.51     |
| 13.4.1    | 15 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   | 798.95  | each      | ₹ 798.95       | 18.51.1   |
| 13.5      | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |         |           |                | 18.52     |
| 13.5.1    | 15 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   | 670.45  | each      | ₹ 670.45       | 18.52.1   |
|           | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |         |           | ₹ 20,240.40    |           |
| <b>14</b> | <b>DRAINAGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |         |           |                | <b>19</b> |
| 14.1      | Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |         |           |                | 19.1      |
| 14.1.1    | 100 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5   | 443.60  | metre     | ₹ 2,218.00     | 19.1.1    |
| 14.2      | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |         |           |                | 19.4      |
| 14.2.1    | 100x100 mm size P type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |         |           |                | 19.4.1    |
| 14.2.1.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2   | 2707.65 | each      | ₹ 5,415.30     | 19.4.1.1  |
|           | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |         |           | ₹ 7,633.30     |           |
| <b>15</b> | <b>ALUMINIUM WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |         |           |                | <b>21</b> |
| 15.1      | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : |     |         |           |                | 21.1      |
| 15.1.1    | For fixed portion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |         |           |                | 21.1.1    |
| 15.1.1.1  | Powder coated aluminium (minimum thickness of powder coating 50 micron)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 350 | 530.90  | kg        | ₹ 185,815.00   | 21.1.1.2  |
| 15.1.2    | For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |         |           |                | 21.1.2    |
| 15.1.2.1  | Powder coated aluminium (minimum thickness of powder coating 50 micron)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20  | 634.45  | kg        | ₹ 12,689.00    | 21.1.2.2  |
| 15.2      | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |         |           |                | 21.3      |
| 15.2.1    | With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 80  | 1505.25 | sqm       | ₹ 120,420.00   | 21.3.2    |
| 15.3      | Providing and fixing 12 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.                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |         |           |                | 21.2      |
| 15.3.1    | Pre-laminated particle board with decorative lamination on both sides                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3   | 1115.40 | sqm       | ₹ 3,346.20     | 21.2.2    |
| 15.4      | Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/ structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |         |           |                | 21.19     |
| 15.4.1    | Upto 5 mm depth and 5 mm width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50  | 148.10  | metre     | ₹ 7,405.00     | 21.19.1   |
|           | <b>Sub-Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |         |           | ₹ 329,675.20   |           |
|           | <b>Grand Total Schedule Item</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |         |           | ₹ 1,560,622.00 | <b>A</b>  |
| 16        | Providing and Fixing multilayer Monticello 12 mm thick COXWELL brand or equivalent Polycarbonate sheet confirming to IS: 14443-1997 with 3 Cells & 4 Walls structure having 50 Micron UV Protection layer on both side of approved brand and make under Co-extrusion technology with Vertical Standing Seam on both side of Sheets. The Sheets shall be fixed to purlin with Aluminium Cleat as locked up with continuous Poly-carbonate Multiwall U-connector, Sheets shall be secured with snaps on connector to interlock the sheets & having Double Tooth locking with continuous Connector Mechanism &End cap to provide a water proof Joints all complete as per Direction of Engineer-in-Charge.                                                                                                     | 130 | 2845.05 | sqm       | ₹ 369,856.50   | M.R.      |
|           | <b>Total of Non-Schedule Items</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |         |           | ₹ 369,856.50   | <b>B</b>  |
|           | Modified Estimated Cost after using Correction facto on DSR-2023 on account of GST @ 0.973 as per O.M. Issued by DG , CPWD vide No.-158/SE/(TAS)/GST/2024/02- Dated: 08/08/2024 SH: I to SH:-VIII. i.e. @0.973 % on "A"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |         |           | ₹ 1,518,485.00 | <b>C</b>  |
|           | Add enhancement for Cost Index @ 22% On DSR-2023 Item( As approved Cost Index of Kolkata is 122 on DPAR-2023( Base-100) as on 01/04/2024 Vide letter No.- 34(1)/SDG (Kol)/Cost Index /2024/1316 ( H) Dated : 01/04/2025 on "C"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |         |           | ₹ 334,067.00   | <b>D</b>  |
|           | <b>Total for CIVIL Component (B+C+D)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |         |           | ₹ 2,222,409.00 | <b>E</b>  |
|           | <b>Grand Total (CIVIL + Electrical)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |         |           | ₹ 4,848,704.00 | <b>E</b>  |
|           | <b>Say (CIVIL + Electrical)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |         |           | ₹ 4,848,704.00 | <b>E</b>  |

Executive Engineer(E)  
BCED, CPWD  
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