

No. DSCL/E-Buses/46/2021-22 6374

Dated: 30/03/2022

To

M/s A.N.S. Constructions Ltd.
F-2-B-1, Extn. Mohan Cooperative,
Industrial Estate, Mathura Road,
New Delhi. PIN 110044.

Subject: Letter of Award for "Construction of City Bus Depot with Charging Station for E-Buses at Dharamshala".

Dharamshala Smart City Limited (DSCL) is pleased to inform that your bid for the Notice Inviting Tender No. DSCL/E-Buses/5984, dated 12/03/2022 for the work "Construction of City Bus Depot with Charging Station for E-Buses at Dharamshala" is accepted at a total cost of ₹11,90,60,167.29 (Rupees Eleven Crore, Ninety Lakh, Sixty Thousand, One Hundred Sixty Seven and Paise Twenty Nine Only) inclusive of all taxes i.e. octroi, royalty, income tax, GST or any other taxes applicable.

The work for above is hereby awarded to you as per the below mentioned terms and conditions:

1. The Letter of Award along with the RFP for the project "Construction of City Bus Depot with Charging Station for E-Buses at Dharamshala". would constitute a provisional agreement until a formal contract agreement duly is executed.
2. The time limit for completion of this work will be 18 months (Eighteen Months), which shall commence from the 15th day of the date of issuing of this Letter of Award (LOA).
3. No substitution shall be done in BOQ Item Nos. 18, 37, 78, 90, 112.20, 137, 138, 140, 148, 149, 150, 170, 186.10, 201, 202, 203 and 208. The execution of these items shall be ensured by the Site Engineer and contractor at the site.
4. The FDR amounting to ₹95,585.00 for unbalanced bid will be submitted within 15 days of issue of this Letter of Award. The same shall be returned to the contractor after successful execution of BOQ Item Nos. 18, 37, 78, 90, 112.20, 137, 138, 140, 148, 149, 150, 150, 170, 186.10, 201, 202, 203 and 208. Failing of submission of the FDR for unbalanced bid, will lead to deduction of said amount from the first R/A bill of the contractor and the same shall be returned to the contractor after successful execution of BOQ Item Nos. as mentioned above.



Step Forward
to a Smart
Neighbourhood


DHARAMSHALA SMART CITY LIMITED,
OLD HIMUDA BUILDING, CHILGARHI, DHARAMSHALA, DISTRICT KANGRA,
HIMACHAL PRADESH-176215.
Ph: 01892-226677, 226075
Email – dscl@dharamshala@gmail.com

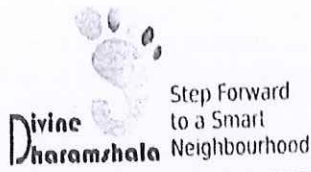
5. The Contractor shall effect and maintain at its own cost from the contract date till the issuance of the completion certificate the insurance of work, plant and material for any loss or damage accruing on account of Force Majeure, Malicious Act, Accidental Damage, Explosion, Fire, Terrorism etc. The Insurance will cover Authority and Contractor against all losses.
6. The contractor will have to make his own arrangement for plants, equipment's machineries to be used in the execution of this work well in time after award of the contract.
7. The Contractor shall install/Hire within 10 Km periphery from the Project work site and make the operational within 45 days from the date of commencement of work. In case of hired plants, the arrangement/ MoU between the parties with valid calibration certificate shall be produced.
8. The contractor will make arrangements of Site Laboratory at the site and shall install suitable testing equipments as required for the project.
9. The Contractor shall insure the Quality Assurance, Monitoring and Supervision as per the Request for Proposal for the work.
10. The Contractor shall also obtain Insurance against its liability for any loss, damage, death or bodily injury or damage to any property or to any property which may arise out of the contractor performance. The Insurance will cover Authority and Contractor against all losses.
11. Detailed working drawings of the component are to be submitted for each part of the work and approval obtained before the commencement of the work.
12. The Project Organization Chart with names and designation of staff deployed on site shall be submitted within 15 days of commencement of work and same shall be pre-approved by the DSCL.
13. All cutting/additions and deletions which remains to be authenticated by you, as well as by the undersigned, may again be authenticated before signing the agreement.
14. The work shall be carried out strictly as per the specifications and terms and conditions mentioned in the RFP. This Letter of Award and the Contract Agreement shall be binding upon you.
15. The latest fair wages of labor schedule as per the latest notification of the Government of Himachal Pradesh shall be applicable to this tender.
16. The Income Tax with Surcharge, Labor Cess, GST, Royalty and other statutory deductions as applicable shall be deducted from the bills.
17. The advance payment recovery and retentions shall be applicable as per the terms of the RFP.

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18. The labor welfare activities including safety, security and basic amenities shall be provided as per the latest orders/notifications of Government of Himachal Pradesh.
19. The storage facilities for the material and equipment required during the implementation of the project shall be arranged by you at your own risk and cost.
20. The Defects Liability Period is **12 months**, after the date of issuance of Completion Certificate for the project, and the validity of the Performance Bank Guarantee shall be maintained until the issue of completion certificate.
21. No escalation of cost due to any reason on equipment or material or labor will be paid on the quoted rates.
22. The Construction Programme/Schedule duly signed by the authorized signatory will have to be submitted within 30 days of issuance of this Letter of Award (LOA).
23. All the terms and conditions of the tender which are not in conflict will remain the same as mentioned in the RFP.
24. The Performance Bank Guarantee amounting to **₹59,53,009.00 (Rupees Fifty Nine Lakh, Fifty Three Thousand And Nine Only)** has to be submitted within 15 days of issue of this award letter as per the terms and conditions laid in the RFP document. The performance bank guarantee shall be maintained till the completion of the work.
25. This Letter of Award is issued subject to verification of the genuineness of the Performance Bank Guarantee.

You are requested to attend the office within 15 days from the receipt of this letter to sign the Contract Agreement. Further contact General Manager (Technical), and start work within 15 days, signing of the Contract Agreement failure of which shall tantamount to forfeiture the Performance Bank Guarantee (PBG).


Managing Director-cum-CEO,
Dharamshala Smart City Limited.




DHARAMSHALA SMART CITY LIMITED,
OLD HIMUDA BUILDING, CHILGARHI, DHARAMSHALA, DISTRICT KANGRA,
HIMACHAL PRADESH-176215.
Ph: 01892-226677, 226075
Email – dscldharamshala@gmail.com

No. DSCL/E-Buses/46/2021-22 6375 - 83

Dated: 30/03/2022

Copy forwarded to the following:

1. The Secretary (UD) to the Government of Himachal Pradesh, Shimla-2.
2. The Director, Urban Development Department, GoHP, Shimla-2.
3. The Commissioner, Dharamshala Municipal Corporation, Dharamshala.
4. The General Manager (Tech.), DSCL, Dharamshala.
5. The Chief Finance Officer, DSCL, Dharamshala.
6. The General Manager (Personnel), DSCL, Dharamshala.
7. The Assistant General Manager (P&D), DSCL, Dharamshala.
8. The Team Leader, PMC, Dharamshala.
9. Guard File.


Managing Director-cum-CEO,
Dharamshala Smart City Limited.

Enclosure: Schedule of Quantities

To,
Sri Alok Singh
Private h.o.
31/3
31/22
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BILL OF QUANTITIES

NAME OF WORK:-CONSTRUCTION OF CITY BUS DEPOT WITH CARPARKING STATION FOR E-BUSES AT DHRAMSHALA

Name of Firm:- ANS Constructions Pvt. Ltd

Sr.No	Description of Work	Qty	Units	Rate	Amount
1.00	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm. measured at a height of 1 metre above ground and removal of rubbish upto a any distance outside the periphery of the area cleared:	1200.00	Sqm	15.00	₹ 18,000.00
2.00	Demolishing cement mortar stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of un-serviceable material upto any leads and lifts as per direction of Engineer-in-charge	1091.97	Cum	1695.00	₹ 18,50,889.15
3.00	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of un-serviceable material upto any leads and lifts as per direction of Engineer-in-charge.	49.57	Cum	1450.00	₹ 71,876.50
4.00	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of un-serviceable material upto all leads and lifts as per direction of Engineer -in- charge.	313.99	Cum	2450.00	₹ 7,69,275.50
5.00	Demolishing cement concrete manually/ by mechanical means including disposal of material upto any leads leads and lifts as per direction of Engineer - in - charge.	51.16	Cum	1690.00	₹ 86,460.40
6.00	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking upto any leads and lifts as per direction of Engineer-in-charge :-Of area 3 sq. metres and below	14.00	each	299.00	₹ 4,185.00
7.00	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 upto any leads and lifts as per direction of Engineer-in-charge	56077.50	Kg	6.00	₹ 3,36,465.00
8.00	Dismantling G.I roofing including ridges, hips, valleys and gutters etc., and stacking the material upto all leads and lift as per direction of Engineer In charge.	1347.10	Sqm	140.00	₹ 1,89,594.00
9.00	Disposal of building rubbish / malba / similar un-serviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge,including upto any leads and lifts as per direction of Engineer-in-charge	414.72	Cum	440.00	₹ 1,82,476.80
10.00	Excavation in soil in Hilly Area by mechanical means including cutting and trimming of side slopes and disposing of excavated earth up to any leads and lifts and as per Technical Specification Clause 1603.1	2026.50	Cum	118.00	₹ 2,39,127.00
11.00	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 up to any leads and lifts and as directed by Engineer-in charge :-All kind of soil/Ordinary rock etc.	10896.75	Cum	170.00	₹ 18,52,447.50
12.00	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil up to any leads and lifts:-All kind of soil for RWH MH, Fire Tank & Pump Room	215.88	Cum	165.00	₹ 35,620.20

Sr.No.	Description of Work	Qty	Units	Rate	Amount
13.00	Construction of granular sub-base by providing close graded material spreading in uniform layers with motor roller on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401 MORTH 5th revision specification	675.00	Cum	2765.00	₹ 18,66,375.00
14.00	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, up to any leads and lifts	10034.73	Cum	118.00	₹ 11,84,098.14
15.00	Disposal of excavated surplus earth lead up to 10 km and lift up to any level, as directed by Engineer-in-charge.	456.87	Cum	88.00	₹ 40,204.56
16.00	Random rubble masonry/polygonal rubble masonry of Cement Mortar 1:4(1 cement:4 sand) (uncoursed / levelling up with cement concrete 1:6:12 (1 cement : 6 sand : 12 graded stone aggregate 20mm nominal size) at plinth level in	568.42	Cum	5020.00	₹ 28,53,468.40
17.00	Boulder filling dry hand packed tightly as in behind Retaining Structure & plinth filling Complete all as per drawing & technical specification and as directed by Engineer-in-charge.	525.82	Cum	1150.00	₹ 6,04,693.00
18.00	mm dia PVC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	317.00	nos	147.00	₹ 46,599.00
19.00	Providing and laying of filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MoRT&H specifications to a thickness of not less than 600 mm with smaller size and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification.	202.80	Cum	1330.00	₹ 2,69,724.00
20.00	Back filling behind retaining wall/abutment/wing wall and return wall etc. complete all as per drawing and Technical Specification of Morth 5 revision	169.00	Cum	740.00	₹ 1,25,060.00
21.00	Providing and laying cement concrete 1:3:6(1cement : 3 sand : 6 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in: Foundation and plinth	738.69	Cum	4940.00	₹ 36,49,128.60
22.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm. so as to give a fair finish including centring, shuttering, strutting and propping etc. with wooden battens and ballies, height of propping and centring below supporting floor to ceiling not exceeding 4 Mtr. and removal of the same for institu-reinforced concrete & plain concrete work in:				
22.10	Foundation, footings basis of columns etc. and mass concrete.				
22.20	Vertical surfaces such as walls (any thickness) partitions and the like including attached pillars buttresses, plinth and string courses and the like.	1171.43	Sqm	210.00	₹ 2,46,000.30
22.30	Columns, pillars, posts and struts:-Circular or curved /Square in plan.	3334.65	Sqm	260.00	₹ 8,67,009.00
22.40	Beams, cantilever, girders and lintels:-Sides and Soffits of beams, beam haunchings, cantilever girders, brassumers and lintels not exceeding 1 Metre in depth:-in all heights from floor.	1268.06	Sqm	340.00	₹ 4,31,140.40
		2028.75	Sqm	340.00	₹ 6,89,775.00

Sr.No	Descriptor of Work	Qty	Unit	Rate	Amount
22.50	Flat surfaces such as soffits of suspended floors, roofs, landings and the like: Floors etc. upto 200mm. in thickness.	1950.50	Sqm	340.00	₹ 6,63,170.00
22.60	Stair cases with sloping or stepped soffits excluding landing.				
22.70	Vertical and horizontal fins individually or forming box louvers band, fascia and eaves boards	16.73	Sqm	340.00	₹ 5,688.20
22.80	Edges of slabs and breaks in floors and walls:-Under 20 cm wide	72.93	Sqm	638.00	₹ 46,529.34
23.00	Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centring, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge.::All Works up to Plinth Level:- (Note :- Minimum cement contents @ 340 kg/cum)	1614.80	Rmt	167.00	₹ 2,69,671.60
		1232.59	Cum	6750.00	₹ 83,19,982.50
24.00	Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centring, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge.::All Works Above Plinth Level (Note :- Minimum cement contents @ 340 kg/cum)	1232.33	Cum	7100.00	₹ 87,49,543.00
25.00	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, fascia and eaves boards above plinth level up to floor five level, excluding the cost of centring, shuttering, finishing and reinforcement with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	2.43	Cum	6850.00	₹ 16,645.50
26.00	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of specified grade excluding the cost of centring and shuttering incling all leads and lifts and as per direction of Engineer-in-charge and technical specification.	32.89	Cum	5220.00	₹ 1,71,685.80
27.00	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17.33	Cum	7200.00	₹ 1,24,776.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
28.00	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). (Note :- Minimum cement contents @ 340 kg/cum) Cement concrete prepared with batch mixing machine	675.00	Cum	6780.00	₹ 45,76,500.00
29.00	Providing Tor steel reinforcement of Grade Fe-500 for R.C.C. work including bending, binding and placing in position complete up to any level :	372446.14	Kg	91.75	₹ 3,41,71,933.35
30.00	Providing and laying autoclaved aerated cement blocks masonry with 150mm/200/230mm/300 mm thick AAC blocks in super structure above plinth level up to any floor level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	265.41	Cum	6000.00	₹ 15,92,460.00
31.00	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to any floor level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work	70.41	Cum	7700.00	₹ 5,42,157.00
32.00	Brick work using common burnt clay building bricks with Cement Mortar 1:4 (1 cement:4 sand) First Class Bricks:- in foundation and plinth	10.30	Cum	7400.00	₹ 76,220.00
33.00	Providing and Fixing factory made UPVC door frame, made of UPVC extruded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (±0.2 mm), including providing & fixing 3 no's of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fasteners, all complete as per manufacturer's specification and direction of Engineer-in-charge.	345.30	Rmt	460.00	₹ 1,58,838.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
34.00	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with M5 tube of size 40 mm x 20 mm x 1 mm, joints of styles & rails to be mitred cut & joint with the help of PVC solvent cement, self-driven self-tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self-driven self-tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.	93.84	Sqm	3350.00	₹ 3,14,364.00
35.00	Providing and fixing factory made uPVC white colour casement /casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 \pm 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made	9.00	Sqm	8440.00	₹ 75,960.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
36.00	Providing and fixing factory made upVC white colour fixed glazed windows/ventilators comprising of upVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to upVC profile), upVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For upVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.	53.70	Sq.m	5488.00	₹ 2,94,705.60
37.00	Providing and fixing factory made upVC white colour sliding glazed window above 1.50 m in height dimension comprising of upVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to upVC profile), appropriate dimension of upVC extruded glazing beads and upVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately) Note: For upVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.	154.08	Sq.m	5292.00	₹ 8,15,391.36
38.00	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh powder coated) for upVC casement window made of zinc alloyed (white	10.00	each	172.00	₹ 1,720.00
39.00	Providing and fixing zinc alloyed (white powder coated) touch lock for upVC sliding window with necessary screws etc. complete.	76.00	each	152.00	₹ 11,552.00
40.00	Providing and fixing steel roller for upVC sliding window with necessary screws etc. complete.	228.00	each	88.00	₹ 20,124.00
41.00	Providing and fixing steel (white powder coated) crescent lock for Upvc sliding window/door with necessary screws etc. complete.	76.00	each	152.00	₹ 11,552.00
42.00	Providing and fixing glazing in UPVC door, window, ventilator shutters and partitions etc. Including all accessories required for installation glass complete as per the architectural drawings and the directions of engineer-in-charge. -With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ Sqm)	177.06	Sq.m	5096.00	₹ 9,02,287.76

Sr.No	Description of Work	Qty	Units	Rate	Amount
43.00	Providing fixing bright Stainless Steel tower bolts of size 250X10mm (barrel type) with screws etc. complete.	60.00	Each	279.00	₹ 16,740.00
44.00	Providing fixing 125 mm long Stainless Steel D-handle for doors/windows with screws etc. complete.	60.00	Each	123.00	₹ 7,380.00
45.00	Providing fixing 250X14 mm Stainless Steel Aldrop for doors with screws etc. complete all as per manufacturer specification and direction of Engineer-in-charge.	60.00	Each	495.00	₹ 29,700.00
46.00	15mm Cement plaster with Cement Mortar 1:6 (1Cement:6 Sand) in single coat on the rough side of brick/concrete/stone walls for interior/ exterior plastering upto any floor level including arrises, internal rounded angles, chamfers and/or rounded angles not exceeding 80mm in girth and finished even and smooth.	10139.89	Sqm	220.00	₹ 22,30,775.80
47.00	6mm Cement plaster to ceiling:-In Cement mortar 1:3(1 Cement:3 Sand) complete all as drawing and technical specification and as directed by Engineer-in-charge.	1898.17	Sqm	160.00	₹ 3,03,707.20
48.00	Applying Birta white wall care putty over plaster surface after thoroughly brushing the surface free from mortar drops, dust, loose materials and other foreign matters sand papered smooth to give final matter finish to the surface complete all as per technical specification and direction of Engineer-in-charge.	12008.00	Sqm	55.00	₹ 6,60,440.00
49.00	Applying priming with cement primer coat on new concrete / masonry / asbestos cement / plastered surfaces after and including preparing the surface by thoroughly cleaning oil,grease,dirt and other foreign matter and sand papering as required with:-Readymixed Cement primer	12008.00	Sqm	91.00	₹ 10,92,728.00
50.00	Wall painting (two coats) with acrylic emulsion paint of approved brand and manufacture for interior grade on undecorated concrete/stone/plastered wall surfaces to give an even shade including t horoughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth including applying of putty a required for metting the surface	12008.00	Sqm	64.00	₹ 7,68,512.00
51.00	Providing and laying in position bitumen hot sealing compound for expansion joints etc.-:Using grade 'A' sealing compound.	729.00	Per cm depth/ cm width/ mtr. length	₹ 12.00	₹ 8,748.00
52.00	Painting lines,dashes,arrows, letters etc. on roads, air fields and like in two coats with road marking paint, brushing, including cleaning the surface of all dirt, dust and other foreign matter	201.73	Sqm	₹ 300.00	₹ 60,519.00
53.00	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
53.10	Granite of any colour and shade:-Area of slab upto 0.50 sqm	22.45	Sqm	3763.00	₹ 84,479.35
53.20	Granite of any colour and shade:-Area of slab Over 0.50 sqm	96.56	Sqm	3455.00	₹ 3,33,614.80

Sr.No	Description of Work	Qty	Units	Rate	Amount
54.00	Providing and laying antiskid ceramic floor tiles of 8-10mm.thick laid on a bed of 12mm. thick cement mortar 1:3 (1cement: 3 sand) finished with flush pointing in white cement. colour and size as per direction of Engineer-in-charge	42.90	Sqm	1254.00	₹ 53,796.60
55.00	Providing and fixing digital HD Ceramic wall tiles of 6 mm thick with 12 mm thick cement mortar 1:3 (1 cement :3 sand) and jointed with cement slurry. colour and size as per direction of Engineer-in-charge	315.12	Sqm	1330.00	₹ 4,19,109.60
56.00	Providing and laying vitrified floor tiles in 600x600mm sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ Sqm including grouting the joints with white cement and matching pigments etc., complete all as per drawing and technical specification.	389.09	Sqm	1330.00	₹ 5,17,489.70
57.00	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	306.98	Cum	7800.00	₹ 23,94,444.00
58.00	Painting lines,dashes,arrows, letters etc. on roads, air fields and like in two coats with road marking paint, brushing, including cleaning the surface of all dirt, dust and other foreign matter	200.00	Sqm	₹ 300.00	₹ 60,000.00
59.00	Steel work welded in built-up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of red lead paint:-in beams joists channels ,angles , tee ,flats with connection plates or angle cleats as in main and cross beams,hip and jack rafters, purlins connected to common rafters and the like.	1391.00	Qtl.	10000.00	₹ 1,39,10,000.00
60.00	Steel work welded in built-up sections, trusses and framed work, including cutting,hoisting,fixing in position and applying a priming coat of red lead paint:-In grating, Framed guards, bars,ledgers railings, brackets & similar works.	38.00	Qtl.	11600.00	₹ 4,40,800.00
61.00	Painting two coats (excluding priming coat)on new steel and other metal surface under coat with ready mixed paint brushing to give an even shade including cleaning the foreign matter :-With ready mixed paint other than white	139.00	Sqm	83.00	₹ 11,537.00
62.00	Providing and fixing 0.60mm thick prepainted steel sheet in roofing with hot dipped metallic zinc coated sheet with top coat of regular modified polyester (RNP) organic coating of 20 microns over 5 microns primer coating to back coat of polyester of 5 microns over 5 microns primer coating i/c fixing with SDS (Self drilling screw) complete with all accessories as required as per the direction of Engineer-in-charge.	3373.00	Sqm	910.00	₹ 30,69,430.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
63.00	Providing and fixing ridges or hips 60 cm overall with 0.60mm thick prepainted steel sheets in roofing with hot dipped metallic zinc coated sheets with top coat of regular modified polyester organic coating of 20 microns over 5 microns primer coating + back coat of polyester of 5 microns over 5 microns primer coating i/c fixing with SDS (Self drilling screw) complete with all accessories as required as per the direction of Engineer in Charge.	144.00	Rmt.	500.00	₹ 72,000.00
64.00	Providing and fixing M.S. BP Sheet 1.66mm to 2.0mm thick in eaves board /faca /soffits/ ceiling including cutting, fixing and welding to steel roof members and applying a coat of red lead primer complete as per the instruction of Engineer-in-charge (Base members of steel work shall be measured & paid separately)	36.00	Sqm	1515.00	₹ 54,540.00
65.00	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595X595 mm and 0.5 mm thick with 8 mm drop, made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.	216.27	Sqm	1260.00	₹ 2,72,500.20
66.00	Providing and mixing Integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc.. at the time of transporting of concrete into the drum of the ready-mix truck, using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.	322.90	Kg	380.00	₹ 1,22,702.00
67.00	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :	350.20	Rmt.	265.00	₹ 92,803.00
68.00	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 Sqm on plan including disposal of excavated earth up to any leads and lifts and as per directions of Engineer in In charge:	200.00	Sqm	₹ 175.00	₹ 35,000.00
69.00	Uprooting rank vegetation and weeds by digging the area to a depth of 60 cm, removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.	200.00	Sqm	74.00	₹ 14,800.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
70.00	Supplying and stacking of good earth at site including royalty and carriage up to 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	60.00	cum	882.00	₹ 52,920.00
71.00	Supplying and stacking at site dump manure from approved source, including carriage up to 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) : Screened through sieve of 1.5. designation 4.75 mm	30.00	Sqm	₹ 1,000.00	₹ 30,000.00
72.00	Rough dressing the trenched ground including breaking clods.				
73.00	Fine dressing of the ground.	200.00	Sqm	₹ 50.00	₹ 10,000.00
74.00	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	200.00	Sqm	₹ 50.00	₹ 10,000.00
75.00	Spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge (cost of sludge, dump manure and/or good earth to be paid separately).	90.00	cum	₹ 200.00	₹ 18,000.00
76.00	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and than rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge.	200.00	Sqm	₹ 1,000.00	₹ 2,00,000.00
77.00	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)				
77.10	Holes 90 cm dia, and 90 cm deep				
77.20	Holes 60 cm dia, and 60 cm deep	105.00	Each	₹ 350.00	₹ 36,750.00
78.00	Providing and fixing M.S. flat iron tree guard 60 cm dia and 2 m high, above ground consisting 4 no's 25 x 6 mm, 2.25 m long and 8 no's 25 x 3 mm 2 m long verticals M.S. flats, riveted to 3 no's 25 x 6 mm M.S. flat iron rings in two halves, fixing together at site with required six numbers of 8 mm dia and 30 mm long bolts, including painting of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD/ any other approved name. The tree guard shall be suitably fixed to the ground by embedding four legs of tree guard in pits of suitable dia and to a depth of 25 cm, refilling the pits with soil and ramming, complete in all respect as per satisfaction and direction of Officer-in-charge.	120.00	Each	₹ 150.00	₹ 18,000.00
79.00	Providing and Displaying Ficus Retusa topiary well developed with fresh & healthy 5 to 6 big ball specific size and shape 180 to 210cm ht in 40 cm Cement Pot as per direction of the officer-in-charge	30.00	Each	₹ 5,000.00	₹ 1,80,000.00
80.00	Providing and Displaying Topiary of Ficus Bush King well developed with fresh & healthy foliage from Top to Bottom with single pillar 60 to 75 cm spread, 210 to 225 cm ht., in 35 cm Cement Tray/Cement Pot as per direction of the officer-in-charge.	30.00	Each	₹ 3,400.00	₹ 1,02,000.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
81.00	Providing and displaying of Araucaria cookie having ht. 1.80 m to 1.95 m, straight, well developed, fresh and healthy with lush green leaves from bottom to top in 30 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	30.00	Each	1170.00	₹ 35,100.00
82.00	Providing and Displaying Bougainvillea named variety, Sobhra, Thilma, Marry palmar, Cherry Blossom etc. well developed with fresh & healthy bushy in full bloom 75 to 90 cm ht. In 40 cm Cement Pot as per direction of the officer-in-charge.	30.00	Each	₹ 2,000.00	₹ 60,000.00
83.00	Providing and stacking of Acacia auriculiformis of ht 150-165 cm in bag size of 25 cm as per direction of the officer-in-charge.	35.00	Each	₹ 500.00	₹ 17,500.00
84.00	Providing and stacking of Bauhinia blakeana (Kachnar) of height 120-150 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	35.00	Each	₹ 900.00	₹ 31,500.00
85.00	Providing and stacking of Burea frondosa (Flame of Forest) of height 60-75 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	35.00	Each	₹ 600.00	₹ 21,000.00
86.00	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to any level, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, any lead :-Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	400.00	Rmt.	570.00	₹ 2,28,000.00
87.00	Providing and fixing high pressure PVC Spigot and Socket, waste and ventilating pipe ISI Marked including fixing with approved adhesive complete.				
87.10	PVC Pipe 150 mm dia				
87.20	PVC Pipe 110 mm dia	300.00	Rmt.	450.00	₹ 1,35,000.00
87.30	PVC Pipe 75 mm dia	70.00	Rmt.	230.00	₹ 16,100.00
88.00	Providing and fixing PVC Plain bend ISI Marked including fixing with approved adhesive complete :-	85.00	Rmt.	130.00	₹ 11,050.00
88.10	PVC Plain bend 110 mm dia				
88.20	PVC Plain bend 75 mm dia	33.00	Each	137.00	₹ 4,521.00
89.00	Providing and fixing PVC door bend with oval access door, insertion rubber washer 3 mm thick bolts and nuts ISI marked complete including fixing with approved adhesive complete :-	33.00	Each	88.00	₹ 2,904.00
89.10	PVC Door bend 110 mm dia				
89.20	PVC Door bend 75 mm dia	15.00	Each	162.00	₹ 2,430.00
90.00	Providing and fixing PVC floor trap ISI Marked of self cleaning design including fixing with approved adhesive, cost of cutting and making good the walls and floor etc. complete	15.00	Each	103.00	₹ 1,545.00
91.00	Providing and fixing PVC Single Equal Branch with oval access door, ISI Marked insertion rubber washer 3 mm thick bolts and nuts complete including fixing with approved adhesive etc. complete	55.00	Each	118.00	₹ 6,490.00
91.10	110 mm dia				
91.20	75 mm dia	30.00	Each	175.00	₹ 5,280.00
92.00	Providing and fixing PVC Collar ISI Marked including fixing with approved adhesive complete :-	30.00	Each	142.00	₹ 4,260.00
92.10	150 mm dia				
92.20	110 mm dia	30.00	Each	82.00	₹ 2,460.00
		30.00	Each	71.00	₹ 2,130.00

Sr.No	Description of Work	Qty		Rate	Amount
			Units		
92.30	75 mm dia				
93.00	Providing and fixing PVC Clamps ISI Marked of approved design with steel screw and rawal plug etc. Complete :-	30.00	Each	52.00	₹ 1,560.00
93.10	110 mm dia				
93.20	75 mm dia	30.00	Each	57.00	₹ 1,710.00
94.00	Providing and fixing square-mouth PVC gully trap complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 X300 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:	30.00	Each	51.00	₹ 1,530.00
		5.00	Each	2254.00	₹ 11,270.00
95.00	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge inside size 90x80 cm and 45 cm deep including SFRCC cover with frame (Medium duty) 500mm dia internal dimensions, :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	15.00	Each	10000.00	₹ 1,50,000.00
96.00	Providing and fixing white vitreous china flat back small stall urinal of size 26.5 x 31.5 x 44 cm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :-Range of three half small urinals with 10 litre P.V.C. automatic flushing cistern	12.00	Each	12100.00	₹ 1,45,200.00
97.00	Providing and fixing white vitreous china extended wall mounting water closet of size 790x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc. complete.	11.00	Each	14000.00	₹ 1,54,000.00
98.00	Providing and fixing Health faucet ABS with rubber cleaning system, flexible tube up to 1.25 mtr. long PVC Flexible tube & ABS wall hook to extended wall mounted type W.C. of quality and make as approved by Engineer - in - charge.	11.00	Each	637.00	₹ 7,007.00
99.00	Providing and fixing Oval Shape wash basin on R.C.C Slab, including 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, and making good the walls wherever require:-White Vitreous China oval shape Wash basin size 540x410 mm with 15 mm C.P. brass pillar taps	12.00	Each	5145.00	₹ 61,740.00
100.00	Providing and fixing P.V.C. Flexible pipe waste pipe for sink or wash basin including:-P.V.C. waste fittings complete:- 32 mm dia	12.00	Each	88.00	₹ 1,056.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
101.00	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:-32 mm nominal outer dia Pipes	150.00	Rmt.	368.00	₹ 55,200.00
102.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including 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:-25 mm nominal outer dia Pipes	110.00	Rmt.	286.00	₹ 31,460.00
103.00	Providing and fixing 20 mm Nominal Outer dia pipe Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost Charge:- Concealed work, including cutting chases and making good the walls etc.	132.00	Rmt.	338.00	₹ 44,616.00
104.00	Providing and fixing unplasticised PVC connection pipe with brass unions : 45 cm Long	34.00	Each	103.00	₹ 3,502.00
105.00	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	11.00	Each	691.00	₹ 7,601.00
106.00	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931	47.00	Each	890.00	₹ 41,830.00
107.00	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.	5000.00	per litre	9.00	₹ 45,000.00
108.00	Providing and fixing 600x450 mm bevelled 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.	12.00	Each	1078.00	₹ 12,936.00
109.00	Providing and fixing C.P. Brass Towel rail complete with C.P. Brass brackets fixed to wooden plugs with C.P. Brass screws :600x20mm	16.00	Each	1380.00	₹ 22,080.00
110.00	Providing and fixing 600mm x 120 mm glass shelf with C.P. Brass bracket and guard rail complete, fixed to wooden plugs with C.P. Brass screws.	12.00	Each	1250.00	₹ 15,000.00
111.00	Providing and fixing chromium plated brass soap dish with C.P. Brass brackets fixed to wooden cleats with C.P. Brass screws :-	12.00	Each	1240.00	₹ 14,880.00
112.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)	5.00	Each	862.00	₹ 4,310.00
112.10	32 mm nominal bore	5.00	Each	603.00	₹ 3,015.00
112.20	25 mm nominal bore	5.00	Each	603.00	₹ 3,015.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
113.00	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :	2.00	Each	1470.00	₹ 2,940.00
114.00	Providing and fixing URINAL PARTITION of size 1195x550mm with 12mm thick laminated panel including all stainless steel accessories required for fitting this panel and complete all as per drawing and technical specification and as directed by Engineer-in-charge.	3.00	Each	3135.00	₹ 9,408.00
115.00	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC HRFR/LS/PVC insulated single core copper conductor cable as required. Group-C	244.00	Point	1455.00	₹ 3,57,460.00
116.00	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required. S.P. 5/ 6 Amps one way Modular switch.	60.00	Each	93.00	₹ 5,580.00
117.00	Supplying and fixing following rating Modular switch / socket in the existing switch box / cover plate including connections etc. as required 5 pin, 5/ 6 Amps Modular socket outlet.	60.00	Each	123.00	₹ 7,380.00
118.00	Supplying and fixing G.I. Modular box of (140mm x78mmx50mm) size with modular plate and cover in recess including providing and fixing 6 pin 15/16 amps modular socket outlet and 15/16 amps, modular switch, connections etc. as required.	70.00	Each	466.00	₹ 32,620.00
119.00	Supplying & fixing of G.I. modular boxes of following sizes along with modular base and cover plate for modular switches in recess as required:- 4 modules(140mmx78mmx50mm)	16.00	Each	564.00	₹ 9,024.00
120.00	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required. S.P. 5/ 6 Amps one way Modular switch.	16.00	Each	123.00	₹ 1,968.00
121.00	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required. 5 pin, 5/ 6 Amps Modular socket outlet.	16.00	Each	172.00	₹ 2,752.00
122.00	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required. S.P. 15/ 16 Amps one way Modular switch.	16.00	Each	221.00	₹ 3,536.00
123.00	Supplying and fixing following rating Modular switch /socket in the existing switch box / cover plate including connections etc. as required. 6 pin, 15/16 Amps Modular socket outlet.	16.00	Each	270.00	₹ 4,320.00
124.00	Wiring for light plug with 2x1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.1.5 Sq.mm. HRFR/LS/PVC insulated single core copper conductor cable for earthing as required.	250.00	Meter	270.00	₹ 67,500.00
125.00	Wiring for power plug with 2x4 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 1 No.4 Sq.mm. HRFR/LS/PVC insulated single core copper conductor cable for earthing as required.	180.00	Meter	353.00	₹ 63,540.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
126.00	Writing for power plug with 4x4 Sq. mm. PVC insulated heat resistant flame retardant (HRRFR) and low smoke single core (flexible) copper conductor cable in surface/recessed PVC conduit along with 2 No.4 Sq.mm. HRRFRLS/PVC insulated single core copper conductor cable for earthing as required.	350.00	Meter	529.00	₹ 1,85,150.00
127.00	Supplying and fixing ceiling rose on the existing junction box / wooden block including connections etc. as required.	62.00	Each	44.00	₹ 2,728.00
128.00	Providing and fixing High Bay LED Down Light with 200 Watt, complete with all accessories, connections, testing and commissioning etc. as required. As per direction of Engineer in Charge.	2.00	Each	17150.00	₹ 34,300.00
129.00	Providing and fixing High Bay LED Down Light with 100 Watt, complete with all accessories, connections, testing and commissioning etc. as required. As per direction of Engineer in Charge.	29.00	Each	15288.00	₹ 4,43,352.00
130.00	Providing and fixing LED Down Light with 42 Watt, complete with all accessories, connections, testing and commissioning etc. as required. As per direction of Engineer in Charge.	21.00	Each	4116.00	₹ 86,436.00
131.00	Providing and fixing LED tubelight with 40 Watt, complete with all accessories, connections, testing and commissioning etc. as required. As per direction of Engineer in Charge.	33.00	Each	3430.00	₹ 1,13,190.00
132.00	Providing and fixing False Ceiling LED Light panel 600 x 600 mm with 36 Watt, complete with all accessories, connections, testing and commissioning etc. as required. As per direction of Engineer in Charge.	36.00	Each	4508.00	₹ 1,62,288.00
133.00	Providing and fixing concealed LED Down Light with 24 Watt, complete with all accessories, connections, testing and commissioning etc. as required. As per direction of Engineer in Charge.	8.00	Each	1744.00	₹ 13,952.00
134.00	Providing and fixing concealed LED Down Light with 15 Watt, complete with all accessories, connections, testing and commissioning etc. as required. As per direction of Engineer in Charge.	29.00	Each	1563.00	₹ 45,327.00
135.00	Providing and fixing concealed LED Down Light with 10 Watt, complete with all accessories, connections, testing and commissioning etc. as required. As per direction of Engineer in Charge.	24.00	Each	1254.00	₹ 30,096.00
136.00	Providing, installation, testing and commissioning of ceiling fan with regulator, including wiring the down rods of standard length (up to 30 cm) with 16/0.20 mm twin twisted flexible, cotton braided, copper cable, including providing and fixing phenolic laminated sheet cover on the fan box and earthing etc. as required:- Ceiling Fan 1200 mm sweep, Category-A	25.00	Each	2519.00	₹ 62,975.00
137.00	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- Exhaust Fan, Heavy duty, 300 mm sweep	17.00	Each	2372.00	₹ 40,324.00
138.00	Providing and installation of exhaust fan of following sizes in the existing opening, including making the hole to suit the size of the above fan, making good the damages, connections, testing and commissioning etc. as required:- Exhaust Fan, Heavy duty, 600 mm sweep	8.00	Each	4400.00	₹ 35,200.00
139.00	Providing and installation of stationary storage type Electric water heater (Geyser) of various sizes by means of Expansion-bolts with nuts and washers, including embedding of expansion-bolts in the wall, providing and fixing of Non-return valve, Dead weight safety valve, 2 No C.P. connection rods 18" long, making good the damages, electrical connections, safety valve connections, testing and commissioning etc. as required:- 10 Liter capacity water heater (Cat-A)	6.00	Each	13400.00	₹ 80,400.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
140.00	Supplying and erection of hot dip galvanized Octagonal Pole height- 7 M suitable with Single arm band, including J-bolt & base plate complete with fixing of all materials. Pole should be PU painted (Polyurethane Paint) & Powder coated with suitable colour including carriage of materials with all lead and lifts. Materials as approved by "DSCI" & As per direction of "Engineer In Charge".	22.00	Each	8649.00	₹ 1,90,278.00
141.00	Supplying, Installation, Testing & Commissioning of LED light fixture of 60 watt for street lighting including accessories complete with all materials, as required. Materials as approved by "DSCI" & As per direction of Engineer in Charge".	44.00	Each	6370.00	₹ 2,80,280.00
142.00	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material upto any depth with all leads and lift as per direction of Engineer In Charge. All kinds of Soil/Rocks.	20.42	Cum	319.00	₹ 6,513.98
143.00	Reinforced Cement Concrete (RCC Grade M20) in Open Foundation complete as per Drawing and Technical Specifications including cost of formwork with carriage of materials upto all leads and lift as per direction of Engineer In Charge.	8.53	Cum	7820.00	₹ 66,704.60
144.00	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. 200 mm width X 50 mm depth X 1.6 mm thickness	100.00	Meter	475.00	₹ 47,500.00
145.00	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required:- 50 mm. dia	150.00	Meter	162.00	₹ 24,300.00
146.00	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required. 200 mm dia (OD-200 mm & ID-175 mm nominal)	75.00	Meter	539.00	₹ 40,425.00
147.00	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required. 120 mm dia (OD-17 mm & ID-103 mm nominal)	300.00	Meter	417.00	₹ 1,25,100.00
148.00	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size :- Armoured cable 630 sq. mm (3.5 core)	200.00	Meter	5039.00	₹ 10,07,800.00
149.00	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size :- Armoured cable 150 sq. mm (3.5 core)	100.00	R.Mtr.	1416.00	₹ 1,41,600.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
150.00	Providing, laying and fixing of one No. aluminium conductor, PVC Insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- Armoured cable 120 sq. mm (3.5 core)	180.00	R.Mtr.	1210.00	₹ 2,17,800.00
151.00	Providing, laying and fixing of one No. aluminium conductor, PVC Insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- Armoured cable 120 sq. mm (3.5 core)	125.00	R.Mtr.	544.00	₹ 68,000.00
152.00	Providing, laying and fixing of one No. aluminium conductor, PVC Insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- Armoured cable 25 sq. mm (4 core)	300.00	R.Mtr.	₹ 950.00	₹ 2,85,000.00
153.00	Supplying and drawing following size of PVC insulated, heat resistant, flame retardant (HRRF) and low smoke single core (flexible) copper conductor cable in existing surface / recessed, Steel/PVC conduit as required. PVC insulated HRRF 1S Copper conductor 2.5 Sq. mm.-: 4x2.5 Sq. mm.	132.00	Meter	328.00	₹ 43,296.00
154.00	Supplying and erection of following depth sheet metal cubical pedestal of suitable dimensions with plus-minus 5 cm variation, made from 1.6 mm thick M.S. sheet duly fabricated in a segregated manner for housing of switch fuse units, by welding each compartment on five sides & front side hinged, complete with locking arrangement, with sufficient No. vertical and horizontal intermediate switchgear housing compartments. The cubical pedestal shall have cable entry box at one or two sides, with epoxy powder coated approved paint and bonding to the existing earth etc. The same shall be erected in the 1:2:4 cement concrete plat-form of suitable dimensions 15 cm high from ground level and 45 cm thick. The cubical pedestal shall be 15 cm from the top of cement concrete plat-form:- 450 mm deep (nominal)	2.50	Sq. mtr. of face area	16170.00	₹ 40,425.00
155.00	Providing and fixing following rating and breaking capacity MCCB in the existing cubical panel board including drilling holes in the cubicle panel, making connections, etc. as required:- 800 Amp. -50 KA	1.00	Each	105350.00	₹ 1,05,350.00
156.00	Providing and fixing following rating and breaking capacity MCCB in the existing cubical panel board including drilling holes in the cubicle panel, making connections, etc. as required:- 315/400 Amp. -35 KA	3.00	Each	42630.00	₹ 1,27,890.00
157.00	Providing and fixing following rating and breaking capacity MCCB in the existing cubical panel board including drilling holes in the cubicle panel, making connections, etc. as required:- 250 Amp. -25 KA	1.00	Each	34300.00	₹ 34,300.00
158.00	Providing and fixing TP&N switch disconnector fuse unit cubical type, 415/500 volts with 3 No. HBC/HRC fuses, in sheet steel enclosure including drilling holes on the board, connections, earthing the body etc. as required:- 320 Amp. Category-A	3.00	Each	₹ 40,000.00	₹ 1,20,000.00
159.00	Supplying and fixing sheet metal bus-bar chamber suitable for 1000 Amp. 415 volts capacity with 4 No. copper strip bus-bars each of length 900mm & cross-sectional area (50.80mmx12.70mm), enclosure made from 1.6 mm thick M.S. sheet having overall dimensions (980mmx700mmx380mm) nominal with all accessories including connections, earthing the body etc. as required:	1.00	Each	63700.00	₹ 63,700.00
160.00	Supplying and fixing sheet metal bus-bar chamber suitable for 300 Amp. 415 volts capacity with 4 No. copper strip bus-bars each of length 600mm & cross-sectional area (31.75mmx6.35mm), enclosure made from 1.6 mm thick M.S. sheet having overall dimensions (680mmx500mmx200mm) nominal with all accessories including connections, earthing the body etc. as required:	1.00	Each	₹ 40,000.00	₹ 40,000.00

S.N	Description of Work	Qty	Units	Rate	Amount
161.00	Providing and fixing following rating and breaking capacity MCCB in the existing cubical panel board including drilling holes in the cubicle panel, making connections, etc. as required.:- 125 Amp, -16 KA	2.00	Each	12887.00	₹ 25,774.00
162.00	Supplying and fixing following rating, four pole, 415 volts, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 100 Amps. Cat-A.	1.00	Each	1250.00	₹ 1,250.00
163.00	Supplying and fixing following rating, four pole, 415 volts, Isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 Amps. Cat-A.	10.00	Each	1103.00	₹ 11,030.00
164.00	Supplying and fixing of following way, single pole and neutral sheet steel MCB distribution board, 240 volts, on surface / recess, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, blanking plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.:- Double door-16 way	1.00	Each	₹ 5,000.00	₹ 5,000.00
165.00	Supplying and fixing of following way triple pole and neutral, sheet steel MCB distribution board, 415 volts, on surface / recess, with provision for 4-pole MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoing, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.:- Double door-4 way (8+12),horizontal type	1.00	Each	7149.00	₹ 7,149.00
166.00	Supplying and fixing of following way triple pole and neutral, sheet steel MCB distribution board, 415 volts, on surface / recess, with provision for 4-pole MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoing, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.:- Double door-6 way (8+18),horizontal type	1.00	Each	4949.00	₹ 4,949.00
167.00	Supplying and fixing of following way triple pole and neutral, sheet steel MCB distribution board, 415 volts, on surface / recess, with provision for 4-pole MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoing, complete with tinned copper bus-bar, wire-set, neutral link, earth bar, din-bar, detachable gland plate, cable, identification labels interconnections, phosphatized and powder painted, including earthing etc. as required.:- Double door-8 way (8+24),horizontal type	3.00	Each	9300.00	₹ 27,900.00
168.00	Supplying and fixing following rating, four pole (three phase & neutral) 415 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. :- 100 Amps. Cat-A.	1.00	Each	9638.00	₹ 9,638.00
169.00	Supplying and fixing following rating, four pole (three phase & neutral) 415 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. :- 63 Amps. Cat-A.	5.00	Each	8722.00	₹ 43,610.00
170.00	Supplying and erection of 6 amps. to 32 amps. ratings, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.:-Triple pole. Cat-A.	6.00	Each	446.00	₹ 2,676.00
171.00	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required.:-Double pole. Cat-A.	27.00	Each	691.00	₹ 18,657.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
172.00	Supplying and erection of 6 amps. to 32 amps. rating, 10 KA breaking capacity, 240 volts, 'C' curves, miniature circuit breaker of following poles in the existing MCB DB complete with connections etc. as required: Single pole. Cat-A.	82.00	Each	250.00	₹ 20,500.00
173.00	Supplying, Installation, Testing & Commissioning of GI earthing / grounding protection system for Electrical system in Building including all these following materials : { 1. GI earthing rod 40 X 2 Mtr, 2. chemical bag (15kg) in 2 nos, 3. Advance Maintenance free gel chemical (5 Ltr.), 4. GI wire 8 Sq mm, 5. Inspection Cover (300 X 300), 6. Installation & Commissioning charges, 7. Shipping Charges}, Labour Charges & Materials as approved by "DSCI" & As per direction of 'Engineer in Charge'..	9.00	Set	8820.00	₹ 79,380.00
174.00	Providing and fixing of 25mm x 5 mm GI strip on surface or in recess for earthing connections etc. as required.	150.00	Meter	147.00	₹ 22,050.00
175.00	Supplying and erection of three piece non linear resistor type lightning arrester suitable for 3 wire, 11 KV overhead lines with rated voltage 9 KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required. Materials as approved by "DSCI" & As per direction of 'Engineer in Charge'.	2.00	Set	₹ 1,00,000.00	₹ 2,00,000.00
176.00	Supply, installation, testing & commissioning of Single headed external yard hydrant comprising of 80mm dia. stand pipe IS:908, flange complete with 63mm dia. Stainless Steel landing valve conforming to IS:5290 (Type-A) with Stainless Steel cap & chain complete as per direction of Engineer in charge.	6.00	Each	7377.00	₹ 44,262.00
177.00	Providing & fixing Stainless Steel short Branch pipe complete with 63mm dia with 20mm (nominal internal diameter) nozzle and suitable for instantaneous connection conforming to IS:903 complete as per direction of Engineer in charge.	6.00	Each	2634.00	₹ 15,804.00
178.00	Providing & fixing (of size 0.700MX0.250MX0.600M) made of 2mm thick MS sheet with 6mm thick glazed glass Double door i/c necessary locking arrangement suitable to accommodate external hydrant. The cabinet shall be painted with red colour shade No. 536 of IS:5 complete as per direction of Engineers in charge.	6.00	Each	₹ 5,000.00	₹ 30,000.00
179.00	Providing & fixing 63mm dia. x15m long RRL hose pipe complete with 63mm dia Stainless Steel male and female couplings duly binded with GI wire, rivets etc. conforming to IS:636-1988 (Type A) complete as per direction of Engineer in charge.	12.00	Each	6150.00	₹ 73,800.00
180.00	Providing and fixing First-AID Hose Reel (20mm dia. x30m long) complete with drum, bracket, 20mm dia. Globe valve and stainless stell nozzle conforming to (IS:884) complete as per direction of Engineers in charge.	6.00	Each	9032.00	₹ 54,192.00
181.00	Providing and fixing 4 way Stainless Steel Fire Brigade inlet connection comprising of 63mm dia. male instantaneous inlet couplings complete with cap and chain as required for 100mm dia MS pipe connection conforming to IS 904 complete as per direction of Engineer in charge.	3.00	Each	11794.00	₹ 35,382.00
182.00	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required. 150 mm. Dia	200.00	Meter	4300.00	₹ 8,60,000.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
183.00	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :				
183.10	200 mm dia (wall thickness 6.3 mm)	15.00	Meter	5350.00	₹ 80,250.00
183.20	150 mm	30.00	Meter	3800.00	₹ 1,14,000.00
183.30	100 mm	15.00	Meter	2700.00	₹ 40,500.00
184.00	Providing & Fixing Gate valve conforming to IS 909 of the following sizes complete with companion flanges, bolts, nuts, washers and inserted rubber gaskets as required complete as per direction of Engineer in charge.				
184.10	150 mm dia	3.00	Each	₹ 35,000.00	₹ 1,05,000.00
184.20	100 mm dia	2.00	Each	₹ 25,000.00	₹ 50,000.00
185.00	Providing & fixing butterfly valve (PN2.5) conforming to IS 13095 of the following sizes complete with companion flanges, bolts, nuts, washers and inserted rubber gaskets as required complete as per direction of Engineer in charge.				
185.10	150 mm dia	2.00	Each	10163.00	₹ 20,326.00
185.20	100 mm dia	1.00	Each	9031.00	₹ 9,031.00
186.00	Providing & fixing dual plate non return valve, conforming to IS 5312 with bolts, nuts, washers & inserted rubber gasket etc. as required complete as per direction of Engineer in charge.				
186.10	150 mm dia	2.00	Each	10991.00	₹ 21,982.00
186.20	100 mm dia	1.00	Each	9310.00	₹ 9,310.00
187.00	Providing & Fixing Ball valve conforming to IS 554 of the following sizes complete with companion flanges, bolts, nuts, washers and inserted rubber gaskets as required complete as per direction of Engineer in charge.:- 32 mm dia	1.00	Each	2573.00	₹ 2,573.00
188.00	Providing & fixing pressure gauges of not less than 100mm dia dial of pressure range 0-21 kg/sq.cm. complete with shut off valve duly calibrated before installation. It shall be provided on discharge of pumps complete as per direction of Engineer in charge.	4.00	Each	₹ 2,500.00	₹ 10,000.00
189.00	Providing & fixing of 25mm dia air release valve with forged ball valve complete as per direction of Engineer in charge.	3.00	Each	2818.00	₹ 8,454.00
190.00	Providing and fixing Pressure switch in Pump Discharge pipe including socket, etc all complete as required.	2.00	Each	2205.00	₹ 4,410.00


Sr.No	Description of Work	Qty	Units	Rate	Amount
191.00	Supplying & installation of MS structure for above ground piping support or any other.				
192.00	Supplying & installing cylindrical type Air Vessel 250 mm dia, 1.5 m high of thickness 8mm MS sheet complete with air release valve, safety valve, pr. gauge etc. as required complete as per direction of Engineer incharge.	120.00	KG	123.00	₹ 14,760.00
193.00	Providing & Fixing Y strainer conforming to of the following sizes complete with companion flanges, bolts, nuts, washers and inserted rubber gaskets as required complete as per direction of Engineer incharge.	1.00	Set	14945.00	₹ 14,945.00
194.00	Providing and fixing reinforced neoprene rubber vibration eliminators/expansion joints (to provide relief from stresses at pipe flanges) suitable for upto 20 kg/cm2 pressure, complete as per specification.:-150mm dia.	4.00	Each	50225.00	₹ 2,00,900.00
195.00	Providing and fixing reinforced neoprene rubber vibration eliminators/expansion joints (to provide relief from stresses at pipe flanges) suitable for upto 20 kg/cm2 pressure, complete as per specification.:-80mm dia.	2.00	Each	13230.00	₹ 26,460.00
196.00	Providing and fixing reinforced neoprene rubber vibration eliminators/expansion joints (to provide relief from stresses at pipe flanges) suitable for upto 20 kg/cm2 pressure, complete as per specification.:-65mm dia.	2.00	Each	11270.00	₹ 22,540.00
197.00	Supply, Installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required : Horizontal type, multistage, centrifugal, Horizontal End Suction Long Coupled pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 3000 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. Epoxy coated common base plate for mounting pump and motor fabricated of mild steel channel as per manufacturer's recommendation with required no. of heavy duty Anti Vibration pads, coupling, coupling guard, foundation bolts etc. as required. Pump shall be capable of handling not less than 150% of rated capacity at a head not less than 65 % of rated head. The shut off head shall not exceed 120% of rated head. HP of motor should be 20% more than the calculated HP. Flexible Coupling and coupling guard for direct coupling of pump and motor. 1620 lpm at 88 m Head (For Hydrant System), Elect Load of Motor - 25 KW(Approx) Note: *The head of the pump is selected in a manner so as to give a minimum 3.5kgf/cm2 pressure at the highest/farthest point.	1.00	Set	349125.00	₹ 3,49,125.00

Sr.No	Description of Work	Qty	Units	Rate	Amount -
198.00	<p>Supply, Installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Diesel Driven Pump)</p> <p>Horizontal End Suction Long Coupled, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.</p> <p>Suitable HP, 2900 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required.</p> <p>M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required.</p> <p>Suitable cement concrete foundation duly plastered and with anti vibration pads.</p> <p>Fire Pumps should be BMS compatible & EF class.</p> <p>1620 lpm at 85 m Head 24 volts 180 AH lead acid battery (12 volts - 2 Nos)</p> <p>Note: *The head of the pump is selected in a manner so as to give a minimum 3.5kgf/cm2 pressure at the</p>	1.00	Set	771162.00	₹ 7,71,162.00
199.00	<p>Supply, Installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Lockey Pump)</p> <p>Horizontal End Suction Long Coupled, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520.</p> <p>Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS : 325.</p> <p>M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.</p> <p>Fire Pumps should be BMS compatible & EF class:-</p> <p>180 lpm at 85 m Head for Hydrant System, Elect Load of Motor - 5KW (Approx)</p>	1.00	Set	173950.00	₹ 1,73,950.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
200.00	Incomings 400A, 50KA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-400 A) with selector switch & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 500Amps Outgoings (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) Main Fire Pumps 125 Amp, 50KA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets Jockey Pump 63 Amp, 50KA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets Diesel Engine Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode indicating lamp for high/Low Lub. Oil pressure, High Water Temp and Engine on Indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers, Sensors, annunciator window for fault indication, complete as per specification	1.00	Set	385875.00	₹ 3,85,875.00
201.00	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- for Pump to MCC Panel including necessary support clamps at ceiling level and connection legs complete in all respects:-Armoured cable 10 sq. mm (four core)	30.00	Rmt.	221.00	₹ 6,630.00
202.00	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- for Pump to MCC Panel including necessary support clamps at ceiling level and connection legs complete in all respects:-Armoured cable 50 sq. mm (3.5 core)	160.00	Rmt.	529.00	₹ 84,640.00
203.00	Providing, laying and fixing of one No. aluminium conductor, PVC insulated and PVC sheathed, armoured/XLPE power cable, working voltage 1100 volts grade on surface etc. of the required size:- for Pump to MCC Panel including necessary support clamps at ceiling level and connection legs complete in all respects:-Armoured cable 4 sq. mm (twin core)	15.00	Rmt.	172.00	₹ 2,580.00
204.00	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. 200 mm width X 50 mm depth X 1.6 mm thickness	60.00	Meter	475.00	₹ 28,500.00

Sr.No	Description of Work	Qty	Units	Rate	Amount
205.00	Supply, installation, testing and commissioning ISI marked (IS:15683) Fire Extinguisher, Carbon-di-oxide type capacity 4.5 Kg. Flat base including valve, discharge hose of not less than 10 mm dia, 1M long and complete in all respects including initial fill with CO2 gas conforming to IS:307-1966 and wall suspension bracket as required as per specifications.	5.00	Each	7350.00	₹ 36,750.00
206.00	Supply, installation, testing and commissioning of 6kg ABC (Powder Type) Fire Extinguisher. Mild Steel Cylinders ISI marked fitted with pressure indicating gauge, internal tube, squeeze lever type valve fully charged with ABC 90 powder (Mono Ammonium Phosphate) pressured by Nitrogen complete in all respects including wall suspension bracket and conforming to IS:15683 as required as per specifications.	5.00	Each	3513.00	₹ 17,565.00
207.00	Supplying & installation of MS structure for above ground piping support or any other.				
208.00	Supplying & installation of First Aid Medical Box for Medical Emergency response, as required.	85.00	Kg	118.00	₹ 10,030.00
209.00	Providing, fixing AUTO GLOW photo luminescent Signage's as per IS standard in Block / Small Letters on rigid sheet with necessary wall or Ceiling fittings as Specified Sizes: In case of Fire, do not use lift, use staircase: 8" x 8"	2.00	Each	2450.00	₹ 4,900.00
210.00	Providing, fixing AUTO GLOW photo luminescent Signage's as per IS standard in Block / Small Letters on rigid sheet with necessary wall or Ceiling fittings as Specified Sizes: Fire Exit: 4" x 12"	6.00	Each	480.00	₹ 2,880.00
211.00	Providing, fixing AUTO GLOW photo luminescent Signage's as per IS standard in Block / Small Letters on rigid sheet with necessary wall or Ceiling fittings as Specified Sizes: Fire Exit: 4" x 12"	6.00	Each	432.00	₹ 2,592.00
212.00	Supplying, installation, testing & Commissioning of Mini Motor Siren Supply Voltage: 220V Ideal Audible Range: 200-400 Mtrs(for Main Building to make alert the building users in fire & emergency time e.t.c), as per direction of Engineer in charge.	2.00	Each	431.00	₹ 2,586.00
213.00	Writing for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HFRF) and low smoke single core (flexible) copper conductor cable in surface/ recessed PVC conduit with modular switch, modular plates, suitable G.I. box and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required. Group-C	2.00	Point	1500.00	₹ 3,000.00

Total ₹ 11,90,60,167.29
Rupees Eleven Crore Ninety Lakh Sixty Thousand One Hundred Sixty Seven and Paise Twenty Nine Only


 Managing Director-Cum-CEO
 Dharamshala Smart City Ltd.