

No. DSCL/ Parking Opposite Bus Stand/155/2021-22 6314

Dated: 29/03/2022

To
M/S ANS Constructions Ltd.
In consortium with
M/S WSS Security Solutions Pvt. Ltd.
E-2/B-1, Extn. Mohan Cooperative,
Industrial Estate, Mathura Road,
New Delhi, PIN 110044.

Subject: Letter of Award for "Development of State of the Art Multi Level Parking Near ISBT Dharamshala".

Dharamshala Smart City Limited (DSCL) is pleased to inform that your bid for the Notice Inviting Tender No. DSCL/ Parking Opposite Bus Stand/155/2021-22/5583 dated 19/02/2022 for the work "Development of State of the Art Multi Level Parking Near ISBT Dharamshala" is accepted at a total cost of **₹20,64,73,504.60/- (Rupees Twenty Crores, Sixty Four Lakh, Seventy Three Thousand, Five Hundred Four and Paise Sixty 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 "Development of State of the Art Multi Level Parking Near ISBT 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 **24 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 Items **1.0, 6.0, 11.0, 94.0, 207, 209, 223 and 225**. The execution of these items shall be ensured by the Site Engineer and contractor at the site.
4. FDR amounting to **₹83,188.00** (Rupees Eighty Three Thousand, One Hundred Eighty Eight Only) for unbalanced bid has to be submitted within 15 days failing which the same amount will be deducted from the first R/A bill. The same shall be returned after successful execution of BOQ Items 1.0, 6.0, 11.0, 94.0, 207, 209, 223 and 225.
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 loses.
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.
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. 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).
22. All the terms and conditions of the tender which are not in conflict will remain the same as mentioned in the RFP document.
23. The Performance Bank Guarantee amounting to ₹1,03,23,676.00 (Rupees One Crore, Three Lakh, Twenty Three Thousand, Six Hundred Seventy Six 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.
24. 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 and submission of the PBG. 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.

No. DSCL/ Parking Opposite Bus Stand/155/2021-22 6315-21

Dated: 29/03/2022

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 Team Leader, PMC, DSCL, Dharamshala.


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

Enclosure: Schedule of Quantities

To,
Newly/DS:
P. Lal h.o.
30/03
J.L.

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BILL OF QUANTITIES

NAME OF WORK: DEVELOPMENT OF STATE OF THE ART MULTI-LEVEL PARKING, NEAR I.S.B.T DHARAMSHALA

S.No	Description of Work / Item(s)	Name of Contractor	QTY	Units	Rate in ₹	Amount
1.00	Cleaning 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:		3085.60	Sqm	10.00	₹ 30,856.00
2.00	Demolishing cement concrete manually/ by mechanical means including disposal of material upto any lead as per direction of Engineer - in - charge.		120.00	Cum	2100.00	₹ 2,52,000.00
3.00	Excavation in soil in Hilly Area by mechanical means including cutting and trimming of side slopes and disposing of excavated earth upto all leads and lifts as per Technical Specification Clause 1603.1		8588.30	Cum	90.00	₹ 7,72,947.00
4.00	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 upto all leads and lifts as directed by Engineer-in-charge.:-All kind of Soils and rocks		7926.90	Cum	162.00	₹ 12,84,157.80
5.00	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 upto any level, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of upto 10 km.:-All kind of Soils / Rocks for RWH MH, Fire Tank & Pump Room		335.00	Cum	165.00	₹ 55,275.00
6.00	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, upto all leads and lifts and as directed by Engineer-in-charge.		7817.20	Cum	100.00	₹ 7,81,720.00
7.00	Disposal of excavated surplus earth by mechanical means with lead upto 10 km and lift upto any level, as directed by Engineer-in-charge.		6933.90	Cum	68.00	₹ 4,71,505.20
8.00	Providing and laying cement concrete 1:3:6(cement : 3 sand : 6 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in i/c carriage of material in all leads & lifts.:-Foundation and Plinth		466.80	Cum	4406.00	₹ 20,53,920.00
9.00	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 in all heights and removal of the same for in situ-reinforced concrete & plain concrete work i/c carriage of material in all leads & lifts in:-Foundation, footings basis of columns etc. and mass concrete.		1220.40	Sqm	210.00	₹ 2,56,284.00
10.00	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 in all heights and removal of the same for in situ-reinforced concrete & plain concrete work i/c carriage of material in all leads & lifts in:-Vertical surfaces such as walls (any thickness) partitions and the like including attached pilasters buttresses, plinth and string courses and the like, in all heights		4994.50	Sqm	260.00	₹ 12,98,570.00

S.No	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
11.00	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 in all heights and removal of the same for insitu-reinforced concrete & plain concrete work in:-Columns, pillars, posts and struts:-Circular or curved /square in plan.	4161.30	Sqm	350.00	₹ 14,56,455.00
12.00	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 in all heights and removal of the same for insitu-reinforced concrete & plain concrete work in:-Beams, cantilever, girders and lintels:-Sides and Soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 Metre in depth:-in all heights / floors.	7743.90	Sqm	330.00	₹ 25,55,487.00
13.00	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 in all heights and removal of the same for insitu-reinforced concrete & plain concrete work in:-Flat surfaces such as soffits of suspended floors, roofs, landings and the like:-Floors etc. upto 200mm. in thickness in all heights / floors.	9856.30	Sqm	330.00	₹ 32,52,579.00
14.00	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 in all heights and removal of the same for insitu-reinforced concrete & plain concrete work in:-Stair cases with sloping or stepped soffits excluding landing in all heights/ floors.	204.20	Sqm	330.00	₹ 67,386.00
15.00	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 in all heights and removal of the same for insitu-reinforced concrete & plain concrete work in:-Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards in all heights/ floors.	677.50	Sqm	651.00	₹ 4,41,052.50
16.00	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 in all heights and removal of the same for insitu-reinforced concrete & plain concrete work in:-Edges of slabs and breaks in floors and walls:-Under 20 cm wide in all heights/ floors.	3877.50	Rmt	165.00	₹ 6,39,787.50

No	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
17.00	Providing and laying in position ready mixed M-35 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 centering, 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 upto Plinth Level:-Foundation Footing, Base of Column etc. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge (Note :- Cement content should not be less than 422 kg/cum.in design mix).	1200.30	Cum	7400.00	₹ 88,82,220.00
18.00	Providing and laying in position ready mixed M-35 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 centering, 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 i/c carriage of material in all leads & lifts.:-All Works Above Plinth Level, (Note :- Note :- Cement content should not be less than 422 kg/cum.in design mix).	4083.40	Cum	7980.00	₹ 3,25,85,532.00
19.00	Providing and laying in position ready mixed M-25 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 centering, 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 upto Plinth Level:-Foundation Footing, Base of Column etc. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge (Note :- Cement content should not be less than 330 kg/cum.in design mix).	25.50	cum	6750.00	₹ 1,72,125.00
20.00	Providing and laying in position ready mixed M-25 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 centering, 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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge.:-All Works Above Plinth Level (Note :- Cement content should not be less than 330 kg/cum.in design mix).	80.50	Cum	7500.00	₹ 6,03,750.00

No	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
21.00	Reinforce cement concrete work in vertical and horizontal fins individually or forming box louvers, fascias and eaves boards above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size), i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	53.80	Cum	6500.00	₹ 3,49,700.00
22.00	Providing Tor steel reinforcement of Grade Fe-550 for R.C.C. work including bending, binding and placing in position complete in all levels i/c cost of binding wire & carriage of material in all leads and lifts	862863.20	Kg	92.25	₹ 7,95,99,130.20
23.00	Providing and laying autoclaved aerated cement blocks masonry with 150mm/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). i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	301.10	Cum	5800.00	₹ 17,46,380.00
24.00	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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	101.20	Cum	7350.00	₹ 7,43,820.00
25.00	Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing 3 nos of 125mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineering-charge. i/c carriage of material in all leads & lifts	106.40	Rmt	375.00	₹ 39,900.00
26.00	Providing and fixing 24 mm thick to existing door frames factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanized/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanized M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a UPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanized M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanized M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter). i/c carriage of material in all leads & lifts	35.50	Sqm	1800.00	₹ 63,900.00

Sl. No.	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
27.00	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 ± 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. i/c carriage of material in all leads & lifts (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. Casement window or ventilator single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.)	19.10	Sqm	8450.00	₹ 1,61,395.00
28.00	Providing fixing bright Stainless Steel tower bolts of size 250x10mm (barrel type) with screws etc. complete all as drawing and technical specification and as directed by Engineer-in-charge. i/c carriage of material in all leads & lifts	30.00	Each	285.00	₹ 8,550.00
29.00	Providing fixing 125 mm long Stainless Steel D-handle for doors/windows with screws etc. complete all as drawing and technical specification i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	30.00	Each	125.00	₹ 3,750.00
30.00	Providing fixing 250x14 mm Stainless Steel Aldrop for doors with screws etc. complete all as drawing and technical specification i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	15.00	Each	505.00	₹ 7,575.00
31.00	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 arises, internal rounded angles, chamfers and/or rounded angles not exceeding 80mm in girth and finished even and smooth. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	18124.50	Sqm	200.00	₹ 36,24,900.00
32.00	6mm Cement plaster to ceiling:-In Cement mortar 1:3(1 Cement:3 Sand) complete all as drawing and technical specification i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	9806.30	Sqm	150.00	₹ 14,70,945.00
33.00	Applying Birla 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. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	27931.00	Sqm	58.00	₹ 16,19,998.00

No	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
34.00	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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	27931.00	Sqm	32.00	₹ 8,93,792.00
35.00	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 thoroughly 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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	27931.00	Sqm	65.00	₹ 18,15,515.00
36.00	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and pre-polished, 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. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge. Granite of any colour and shade:-Area of slab upto 0.50 sqm	364.50	Sqm	3750.00	₹ 13,66,875.00
37.00	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and pre-polished, 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. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge. Granite of any colour and shade:-Area of slab Over 0.50 sqm	576.60	Sqm	3500.00	₹ 20,18,100.00
38.00	Providing and laying artiskid ceramic floor tiles of 8-10mm thick laid on a bed of 12mm thick cement mortar 1:3 (1 cement: 3 sand) finished with flush pointing in white cement. colour and size i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	157.70	Sqm	1280.00	₹ 2,01,856.00
39.00	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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	406.00	Sqm	1365.00	₹ 5,54,190.00
40.00	Providing and laying stone kraft elevation/wall tile cladding min 6 mm thick and size of tile 30x60 cm in skirting risers of steps and dado 12 mm thick cement mortar 1:3 (1 cement: 3 sand) and jointed with cement slurry. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	658.40	Sqm	1475.00	₹ 9,71,140.00
41.00	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 should not be less than 330 kg/cum in design mix).	679.30	Cum	7800.00	₹ 52,98,540.00

	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
42.00	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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	1474.00	Sqm	85.00	₹ 1,25,290.00
43.00	Steel work welded in built-up sections, trusses and framed work, including cutting, noisting, fixing in position and applying a priming coat of red lead paint: i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge- 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.	376.70	Qtl.	10500.00	₹ 39,55,350.00
44.00	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: i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge in grating, Framed guards, bars, ladders railings, brackets & similar works.	90.00	Qtl.	11900.00	₹ 10,71,000.00
45.00	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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	145.00	Sqm	85.00	₹ 12,225.00
46.00	Providing and fixing 0.50mm 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 prepainted iron J or L hooks, bolts and nuts 6mm dia metre with prepainted limpet and rubber washers complete with all accessories as required i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	1164.20	Sqm	980.00	₹ 11,40,916.00
47.00	Providing and fixing ridges or hips 60 cm overall with 0.50mm 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 prepainted iron J or L hooks, bolts & nuts 6mm dia & prepainted G.I. limpet and bitumen washers complete with all accessories i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	201.00	Rmt.	510.00	₹ 1,02,510.00
48.00	Providing and fixing M.S. BP Sheet 1.66mm to 2.0mm thick in eaves board / fascia / 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) i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	39.40	Sqm	1550.00	₹ 61,070.00
49.00	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. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	890.20	Sqm	1290.00	₹ 11,48,358.00

	Description of Work / Item(s)		Qty	Units	Rate in ₹	Amount
50.00		Construction of granular sub-base by providing close graded material, spreading in uniform layers of 53mm to 9.5mm @50% , 9.5mm to 2.36mm @ 20% and 2.36mm to below @ 30% with motor grader 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	84.00	cum	2995.00	₹ 2,51,580.00
51.00		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 :- Cement content should not be less than 340 kg/cum.in design mix). Cement concrete prepared with batch mixing machine i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	84.00	Cum	7095.00	₹ 5,95,980.00
52.00		Providing and laying in position bitumen hot sealing compound for expansion joints etc.:-Using grade 'A' sealing compound.	180.00	Per cm depth per cm width per Length	15.00	₹ 2,700.00
53.00		Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 110 mm dia PVC pipe of 4.5kg/cm ² , extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	360.00	R.Mtr.	265.00	₹ 95,400.00
54.00		Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	216.00	Cum	1250.00	₹ 2,70,000.00
55.00		Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	360.00	Cum	725.00	₹ 2,61,000.00

	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
56.00	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. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	1339.00	Kg	405.00	₹ 5,42,295.00
57.00	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/ sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	1592.80	Sqm	425.00	₹ 6,76,940.00
58.00	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. Dumb bell with central bulb 180mm wide 8 mm thick complete : i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	90.00	Rmt.	270.00	₹ 24,300.00
59.00	Supply and installation of 8 Passenger lift without machine room of stainless steel material finish and telescoping door type and CAR size 1100x1400mm, Side opening door/Centre Opening Door and Single Entrance Car with a capacity of 544 kg and less than 2m/sec for G+5, Terrace and Basement.complete all as per drawing and manufacturer's specification and as per approved by DSCIL i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	2.00	Each	1650000.00	₹ 33,00,000.00
60.00	Providing and fixing high pressure PVC Spigot and Socket, waste and ventilating pipe ISI Marked including fixing with approved adhesive complete. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- PVC Pipe 150 mm dia	25.00	Rmt.	462.00	₹ 11,550.00
61.00	Providing and fixing high pressure PVC Spigot and Socket, waste and ventilating pipe ISI Marked including fixing with approved adhesive complete. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- PVC Pipe 110 mm dia	223.80	Rmt.	235.00	₹ 52,593.00
62.00	Providing and fixing high pressure PVC Spigot and Socket, waste and ventilating pipe ISI Marked including fixing with approved adhesive complete. i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- PVC Pipe 75 mm dia	109.70	Rmt.	137.00	₹ 15,028.90
63.00	Providing and fixing PVC Plain bend ISI Marked including fixing with approved adhesive complete :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- PVC Plain Bend 110 mm dia	66.00	Each	140.00	₹ 9,240.00

	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
64.00	Providing and fixing PVC Plain bend ISI Marked including fixing with approved adhesive complete :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- PVC Plain bend 75 mm dia	66.00	Each	90.00	₹ 5,940.00
65.00	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 :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- PVC Door bend 110 mm dia	60.00	Each	165.00	₹ 9,900.00
66.00	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 :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- PVC Door bend 75 mm dia	60.00	Each	106.00	₹ 6,360.00
67.00	Providing and fixing PVC floor trap of size 110x75mm ISI Marked of self cleaning design including fixing with approved adhesive, cost of cutting and making good the walls and floor etc. complete i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	126.00	Each	120.00	₹ 15,120.00
68.00	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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- 110 mm dia	60.00	Each	179.00	₹ 10,740.00
69.00	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 i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:-75 mm dia	60.00	Each	142.00	₹ 8,520.00
70.00	Providing and fixing PVC Collar ISI Marked including fixing with approved adhesive complete :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:-150 mm dia	10.00	Each	84.00	₹ 840.00
71.00	Providing and fixing PVC Collar ISI Marked including fixing with approved adhesive complete :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:-110 mm dia	60.00	Each	72.00	₹ 4,320.00
72.00	Providing and fixing PVC Collar ISI Marked including fixing with approved adhesive complete :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:-75 mm dia	60.00	Each	53.00	₹ 3,180.00
73.00	Providing and fixing PVC Clamps ISI Marked of approved design with steel screw and rawal plug etc.complete :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- for 110 mm dia pipe	25.00	Each	58.00	₹ 1,450.00
74.00	Providing and fixing PVC Clamps ISI Marked of approved design with steel screw and rawal plug etc.complete :- i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge:- for 75 mm dia pipe	25.00	Each	52.00	₹ 1,300.00
75.00	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: i/c carriage of material in all leads & lifts and as per the direction of Engineer in Charge	5.00	Each	2300.00	₹ 11,500.00
76.00	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 SFRC cover with frame (Medium duty) 500mm dia internal dimensions, With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	Each	10000.00	₹ 50,000.00

	Description of Work / Items	Qty	Units	Rate in ₹	Amount
119.00	Providing, laying and fixing of PVC insulated flexible Copper power cable, working voltage 1100 volts grade on surface etc. of the required size, including suitable size of joining Kits and copper lugs. :- 3- Core 6 Sq.mm flexible Copper power cable	150.00	Meter	350.00	₹ 52,500.00
120.00	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 platform 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 platform:- 450 mm deep (nominal)	1.80	Sq. mtr. of face area	16500.00	₹ 29,700.00
121.00	Providing and fixing following rating, four pole, 415 volts, On-load Charge over switch unit, panel mounting, Automatic operation, including drilling holes in the cubical, making connections and protection from internal and external surge, etc. as required.:- 630 Amps.	1.00	Each	68750.00	₹ 68,750.00
122.00	Supplying and fixing sheet metal bus-bar chamber suitable for 800 Amp. 415 volts capacity with 4 No. copper strip bus-bars each of length 600mm & cross-sectional area (50.80mmx6.35mm), enclosure made from 1.6 mm thick M.S. sheet having overall dimensions (680mmx600mmx300mm) nominal with all accessories including connections, earthing the body etc. as required:-	1.00	Each	52000.00	₹ 52,000.00
123.00	Providing and fixing following rating and breaking capacity MCCB in the existing cubical panel board including drilling holes in the cubical panel, making connections, and protection from internal and external surge etc. as required.:- 315/400 Amp. - 35 KA	1.00	Each	43500.00	₹ 43,500.00
124.00	Providing and fixing following rating and breaking capacity MCCB in the existing cubical panel board including drilling holes in the cubical panel, making connections, etc. as required.:- 125 Amp. -16 KA	3.00	Each	13000.00	₹ 39,000.00
125.00	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.	7.00	Each	1250.00	₹ 8,750.00
126.00	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 (3+18), horizontal type	9.00	Each	4000.00	₹ 36,000.00
127.00	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.	2.00	Each	6000.00	₹ 12,000.00
128.00	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.	7.00	Each	4285.00	₹ 29,995.00
129.00	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.	2.00	Each	1535.00	₹ 3,070.00
130.00	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.	7.00	Each	1250.00	₹ 8,750.00

Description of Work / Items

	Qty	Units	Rate in ₹	Amount
<p>167.00</p> <p>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 mild steel channel as per manufacturer's recommendation with required no. of heavy duty Anti Vibration pads, coupling guard, foundation bolts etc. as required. Fire Pumps should be BMS compatible & EF class. 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. As per the approved make by DSCI, Flexible Coupling and coupling guard for direct coupling of pump and motor. 2280 lpm at 85 m Head (For Hydrant System), Elect Load of Motor - 56KW(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.</p>	1.00	Set	375000.00	₹ 3,75,000.00
<p>168.00</p> <p>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 guard, foundation bolts etc. as required. Fire Pumps should be BMS compatible & EF class. 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. As per the approved make by DSCI, Flexible Coupling and coupling guard for direct coupling of pump and motor. 2280 lpm at 85 m Head (For Sprinkler System), Elect Load of Motor - 56KW(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.</p>	1.00	Set	350000.00	₹ 3,50,000.00

	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
169.00	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) As per the approved make by DSCIL, 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, 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., M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered and with anti-vibration pads. Fire Pumps should be BMS compatible & EF class. 2280 lpm at 85 m Head, 24 volts 180 AH lead acid battery (12 volts 2 Nos). Detail of Engine as described above, 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	610000.00	₹ 6,10,000.00
170.00	Supply, Installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump) As per the approved make by DSCIL, 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., 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., M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required., Fire Pumps should be BMS compatible & EF class.180 lpm at 85 m Head for Hydrant System ,Elect Load of Motor - 15KW (Approx)	1.00	Set	150000.00	₹ 1,50,000.00
171.00	Supply, Installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump) As per the approved make by DSCIL, 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., 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., M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required., Fire Pumps should be BMS compatible & EF class.180 lpm at 85 m Head for Sprinkler System ,Elect Load of Motor - 15KW (Approx)	1.00	Set	150000.00	₹ 1,50,000.00
172.00	Supply, Installation, Testing and Commissioning of Electric driven Terrace pump suitable for automatic operation and consisting of following: complete in all respect as required. a) Horizontal Type, single stage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal and flow of 900 lpm at 40m of 10 KW, head conforming to IS standards. b) Squirrel cage induction motor with suitable HP with synchronous speed 3000 RPM, Suitable for operation on 415 volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, Conforming to IS standards.c) Common Base plate for Pump and motor and coupling, coupling guard, vibration pad, cables and other accessories as required for complete installation of pump set.	1.00	Set	82600.00	₹ 82,600.00

Description of Work / Item(s)

		Qty	Units	Rate in ₹	Amount
173.00	<p>Fabrication, supply, installation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalized with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, inter-connection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurization pump & diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz AC Supply with enclosure protection class IP 42 as required : Electrical panel should be use for BMS compatible pump & EF class Incomings: Suitable incoming current of 400A, 4 Pole MCCB, Ics=100% Icu Rating, Digital Voltmeter 0-500V with selector switch, Ammeter (0-500 A) with selector switch & CT's etc., LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps, Set of Copper Bus Bar 800Amps Outgoings: (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps). Main Fire Pump:- 1Nos fully automatic Star/Delta starter suitable for 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, complete link (for 2 Nos. Soft Starter Feeder for 112 KW) with ON/Off indication with 2A SP MCB back up. Also provide manual bypass arrangement comprising ON/OFF indications with 2A SP MCB back up - 1 set, 2Nos of 250 Amp TP+NL MCCB of 36 KA breaking capacity with heavy duty solid detachable neutral DOL starter with 200A contactor with 2NC & 2NC auxiliary contacts. Over load relay of rating 135-225 A within built single phasing preventor and Armature of range 0 - 225 A & 2Nos of associated CT's of rating 250/5A of accuracy CL-1, 5VA burden. Also provide soft starter for each feeder and required. (Fire hydrant & Sprinkler pump), Jockey Pump:- 63 Amp, 36KA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic DOL 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. - 1 set, DIESEL ENGINE CONTROL:- Control for diesel engine comprising - Automatic/Manual sector 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 with Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30V 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, annunciation window for fault indication, complete as per specification, TERRACE PUMP:- Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic operation of firefighting pump consisting (Terrace pump):- (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual (c) Protection failure and control cabling (d) Interlocking of pressure switch with pumps, Major component of panel are as under:- 63A TP MCB with soft starter, single phasing preventor, with push button, ON, off, trip indication lamp, space heater with thermostat, cooling exhaust fan</p>	1.00	Set	212400.00	₹ 2,12,400.00
174.00	<p>Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete 150 mm butterfly valve, Flanges etc with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required : 4 way-150 mm dia M.S. Pipe</p>	1.00	Each	19709.00	₹ 19,709.00
175.00	<p>Providing and fixing fire brigade suction hose coupling (draw out connection) with nut for female coupling as per IS-902 complete with 100mm dia. Suction pipe and foot valve (to be connected to static tank) complete as required and as per enclosed specification.</p>	1.00	Each	15105.00	₹ 15,105.00
176.00	<p>Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.</p>	9.00	Each	1595.00	₹ 14,355.00
177.00	<p>Supplying and fixing single headed internal hydrant valve with instantaneous Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required :- Single headed Stainless steel/GM</p>	17.00	Each	5800.00	₹ 98,600.00
178.00	<p>Supplying & fixing 63 mm dia short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :-Stainless Steel (Grade 304)/GM</p>	17.00	Each	1750.00	₹ 29,750.00
179.00	<p>Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :-Stainless Steel (Grade 304)/GM</p>	34.00	Each	4500.00	₹ 1,53,000.00

Description of Work / Item(s)		Qty	Units	Rate in ₹	Amount
204.00	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange:- 80 mm dia.	1.00	Each	11500.00	₹ 11,500.00
205.00	Providing & fixing of 25mm dia. gunmetal air release valve with all fittings and forged ball valve on header complete as required and as per enclosed specification rated for (0-15 Kg/Cm2) pressure rating.	3.00	Each	1890.00	₹ 5,670.00
206.00	Providing and fixing following size Pressure gauge (0-15 Kg/Cm2) complete with shut off valve duly calibrated before installation complete as required & as per enclosed specification.150mm dia.	23.00	Each	1947.00	₹ 44,781.00
207.00	Providing, fixing, testing & commissioning of MS air cushion tank 6mm thick MS plate, 250 mm in diameter and 1.2 m in height with dished ends fabricated from 8mm thick MS plate with Air release valve with stop cock, flanged inlet connection and drain arrangement with 25mm dia valve, pressure gauge with gun metal stop cock complete with all accessories as required and conforming to IS 4736-1968.	1.00	Each	10266.00	₹ 10,266.00
208.00	Providing, fixing, testing & commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of following sizes as required :-150 mm dia.	1.00	Set	50738.00	₹ 50,738.00
209.00	Providing, fixing, inspecting, testing of built in drain assembly with sight glass for installation on Sprinkler System, in brass body consisting of steel single lever ball valve for multiple test and drain functions, including inlet connection of specified size, sight glass, connections to the main header and line drain complete as per requirements. Product shall suitable for min. 10 kg/cm2 working pressure and shall be UL listed / FM Approved :-50mm Drain size and 15mm (5.6K) Testing Orifice	6.00	Each	3785.00	₹ 22,710.00
210.00	Providing, fixing, testing & commissioning of precharged double flanged vertical MS air vessel fabricated from 10 mm thick MS plate with dished ends fabricated from 10 mm thick MS plate common for pumps at drop of pressure including 50 / 80 mm dia inlet with isolating valve duly painted from inside and outside complete as required with Air release valve with stop cock, flanged inlet connection and drain arrangement with 25mm dia valve, pressure gauge with gun metal stop cock complete with all accessories as required and conforming to IS 4736-1968.:- Pressure Vessel for Fire Pump room, Recommended dia. : 450 mm, Height of shell : 2000mm, Working pressure : 10 Kg/Sq.cm, Test Pressure : 15 Kg/Sq.cm	1.00	Set	34809.00	₹ 34,809.00
211.00	Providing, fixing, testing & commissioning of precharged double flanged vertical MS air vessel fabricated from 10 mm thick MS plate with dished ends fabricated from 10 mm thick MS plate common for pumps at drop of pressure including 50 / 80 mm dia inlet with isolating valve duly painted from inside and outside complete as required with Air release valve with stop cock, flanged inlet connection and drain arrangement with 25mm dia valve, pressure gauge with gun metal stop cock complete with all accessories as required and conforming to IS 4736-1968.:-For Terrace Pump, Recommended dia. : 450 mm, Height of shell : 1.2mm, Working pressure : 10 Kg/Sq.cm, Test Pressure : 15 Kg/Sq.cm	1.00	Set	34809.00	₹ 34,809.00
212.00	Providing & fixing of Safety valve complete as per direction of Engineer Incharge.:-25 mm dia	2.00	Each	1709.00	₹ 3,418.00
213.00	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.	6.00	Each	12157.00	₹ 72,942.00

	Description of Work / Item(s)	Qty	Units	Rate in ₹	Amount
214.00	Providing and fixing reinforced neoprene rubber vibration eliminators/expansion joints (to provide relief from stresses at pipe flanges) suitable for upto 20 kg/cm ² pressure, complete as per specification:- 80mm dia.	3.00	Each	9909.00	₹ 29,727.00
215.00	Providing and fixing reinforced neoprene rubber vibration eliminators/expansion joints (to provide relief from stresses at pipe flanges) suitable for upto 20 kg/cm ² pressure, complete as per specification:- 65 mm dia.	3.00	Each	8495.00	₹ 25,485.00
216.00	Providing and fixing cable for Pump to MCC Panel including necessary support clamps at ceiling level and connection legs complete in all respects:- 3Cx4 sqmm PVC Armoured Cu Wire	65.00	Rm	405.00	₹ 26,325.00
217.00	Providing and fixing cable for Pump to MCC Panel including necessary support clamps at ceiling level and connection legs complete in all respects:- 3Cx50 sqmm PVC XLPE armoured Cu Cable	45.00	Rm	3490.00	₹ 1,57,050.00
218.00	Providing and fixing cable for Pump to MCC Panel including necessary support clamps at ceiling level and connection legs complete in all respects:- 3Cx1.5 sqmm PVC Armoured Cu Wire	30.00	Rm	109.00	₹ 3,270.00
219.00	Providing and fixing GI Earthing strip of Size 25 x 6mm for higher size motors and MCC panels to be connected in as approved manner to the general earthing system complete.	100.00	Rm	142.00	₹ 14,200.00
220.00	Supply of Perforated GI Cable Tray (1.6 mm thickness) for Pump Room:- 300 mm (50 mm depth)	20.00	Metre	547.00	₹ 10,940.00
221.00	Supply of Perforated GI Cable Tray (1.6 mm thickness) for Pump Room:- 150 mm (50 mm depth)	20.00	Metre	466.00	₹ 9,320.00
222.00	Supply of Perforated GI Cable Tray (1.6 mm thickness) for Pump Room:- 50 mm (40 mm depth)	40.00	Metre	180.00	₹ 7,200.00
223.00	Providing, fixing, testing and commissioning brass quartzoid sprinklers K-80 (UL-Underwriters Laboratories Listed) suitable for 1.75 psi(1.2 Bars) maximum working pressure and 7 psi(0.5 Bars) minimum operating pressure with 15 mm dia BSPT threaded opening complete in all respects. The type & temperature rating shall be as follows:- Pendant Sprinkler (68°)- Standard response type	980.00	Each	319.00	₹ 3,12,620.00
224.00	Providing, fixing, testing and commissioning brass quartzoid sprinklers K-80 (UL-Underwriters Laboratories Listed) suitable for 1.75 psi(1.2 Bars) maximum working pressure and 7 psi(0.5 Bars) minimum operating pressure with 15 mm dia BSPT threaded opening complete in all respects. The type & temperature rating shall be as follows:- Quick Response Horizontal Sidewall sprinkler (K-80, Temp. Rating - 68oc) - Facade Protection Sprinkler	110.00	Each	490.00	₹ 53,900.00
225.00	Supply, installation, Testing and commissioning of Flow Switch with fittings, Flanges, nut-bolts, washers etc. as per requirement.	8.00	Each	6200.00	₹ 49,600.00
226.00	Supply, installation, Testing and commissioning of Hydraulic flexible pipe for sidewall sprinkler. Pipe should be able to withstand pressure up to 14kg/cm ² with fittings, nut-bolts, washers etc. as per requirement:-: 25 mm	52.90	Mtr.	1100.00	₹ 58,190.00
227.00	Supply, installation, Testing and commissioning of Hydraulic flexible pipe for sidewall sprinkler. Pipe should be able to withstand pressure up to 14kg/cm ² with fittings, nut-bolts, washers etc. as per requirement:-: 32 mm	36.80	Mtr.	1550.00	₹ 57,040.00
228.00	Supply, installation, Testing and commissioning of Hydraulic flexible pipe for sidewall sprinkler. Pipe should be able to withstand pressure up to 14kg/cm ² with fittings, nut-bolts, washers etc. as per requirement:-: 40 mm	95.60	Mtr.	1800.00	₹ 1,72,080.00
229.00	Supply, installation, Testing and commissioning of Hydraulic flexible pipe for sidewall sprinkler. Pipe should be able to withstand pressure up to 14kg/cm ² with fittings, nut-bolts, washers etc. as per requirement:-: 50 mm	242.60	Mtr.	2400.00	₹ 5,82,240.00
230.00	Supply, installation, Testing and commissioning of Hydraulic flexible pipe for sidewall sprinkler. Pipe should be able to withstand pressure up to 14kg/cm ² with fittings, nut-bolts, washers etc. as per requirement:-: 65 mm	27.30	Mtr.	1700.00	₹ 46,410.00
231.00	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 CO ₂ gas conforming to IS:307-1966 and wall suspension bracket as required as per specifications.	22.00	Each	6200.00	₹ 1,36,400.00

S.No.	Description of Work / Item(s)	Qty	Units	Rate in ₹ -	Amount
232.00	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.	23.00	Each	3100.00	₹ 71,300.00
233.00	Supplying & installation of MS structure for above ground piping support or any other.	2000.00	Kg	100.00	₹ 2,00,000.00
234.00	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"	14.00	Each	480.00	₹ 6,720.00
235.00	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 Equipment: 4" x 12"	14.00	Each	420.00	₹ 5,880.00
236.00	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"	14.00	Each	425.00	₹ 5,950.00
				TOTAL	₹ 20,64,73,504.60

(Rupees Twenty crore Sixty Four Lakh Seventy Three Thousand Five Hundred Four and Paise Sixty only)

Managing Director-Cum-CEO
Dharamshala Smart City Ltd.