



Tender No. DFC_ADI_ENG_RR_PNUN

For

**Construction of Running Room at New Palanpur Junction under CGM,
DFCCIL, Ahmedabad Unit.**

(PARTICIPATION THROUGH E-TENDER ONLY)

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**FINANCIAL BID
(PACKET-B)**

**TENDER DOCUMENT
June-2023**

Employer:

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
CGM-AHMEDABAD UNIT
(A GOVERNMENT OF INDIA ENTERPRISE)
UNDER MINISTRY OF RAILWAYS**

GENERAL INFORMATION/DATA SHEET

Tender No.	DFC_ADI_ENG_RR_PNUN
Name of the work	Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.
Tender Value	Rs. 16,74,78,972/-
Completion Period	10 months
Earnest Money	Rs. 33,49,600/-
Cost of Tender Document	Rs. 11800/- (10,000 + 18% GST) Rs. 10,000/- (Rs. Ten Thousand only) + 18 % GST 11,800/- to be paid online through payment gateway provided at <u>www.ireps.gov.in</u> payable in favour of " Dedicated Freight Corridor Corporation of India Limited, Ahmedabad "
Bidding Start Date	23.06.2023
Bidding closing Date and Time	07.07.2023 up to 16:00 Hrs
Date and Time of Opening of Tender (Technical Bids - Packet A)	07.07.2023 up to 16:00 Hrs
Date and Time of Opening of Financial Bid -Packet B	Will be notified to bidder qualified in Technical bid and also posted on <u>www.ireps.gov.in</u>
E-Tendering Web site Address:	<u>www.ireps.gov.in</u> www.ireps.gov.in/ itslink at www.dfccil.com (Help Desk of IREPS : 011-23761525) For any clarification, help and registration for E- Tendering & matter relating to Digital Signature, contact at Help Desk.
Validity of offer	60 days
Security Deposit	5 % of Contract Value
Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 21(thirty) days from the date of issue of Letter Of Acceptance (LOA), amounting to 3% of the contract value in the form as give in clause 16.(4) of GCC.
Office Address	Office of the Chief General Manager, Dedicated Freight Corridor Corporation of India Limited, OCC Building, 'D' Cabin Road, Sabarmati, Ahmedabad-380019, Gujarat

SUMMARY OF PRICES

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Sl. No.	Description of works	Cost as per Schedules	Rates to be quoted online mode (Clearly mentioning above / below / at par on Schedules)
1	2	3	4
1.	Execution of all works as per Schedule "A" (Items as per DSR)	₹ 70259088.47	Rates above / below / at par as per schedules.
2.	Execution of all works as per Schedule "A1" (Items as per R&B SOR Guj. Govt.)	₹ 440077.20	
2.	Execution of all works as per Schedule "B" (Items as per DSR)	₹ 33889632.79	
3.	Execution of all works as per Schedule "C" (NS Items)	₹ 5594832.69	
4	Execution of all works as per Schedule "D" (Items as per GUJ R & B ELE SOR & DSR-E & M)	₹ 14687931.58	
5	Execution of all works as per Schedule "E" (NS Items & as per GUJ R & B ELE SOR)	₹ 15275072.50	
6	Execution of all works as per Schedule "F" (NS Items as per GUJ R & B ELE SOR)	₹ 4105751.00	
7	Execution of all works as per Schedule "G" (NS Items as per GUJ R & B ELE SOR)	₹ 18016977.00	
8	Execution of all works as per Schedule "H" (NS Items as per GUJ R & B ELE SOR)	₹ 5209607.96	
	Grand Total	₹ 167478971.20	

I / We offer and agree to execute above work at rate uploaded online at www.ireps.gov.in through digital signature.

Signature of tenderer (s)

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SCHEDULE OF PRICES & TOTAL PRICES

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.						
Schedule- A						
Schedule of Approximate quantities						
Sr. No.	Item No.	Total Qty.	Item of work	Rate	Unit	Amount in Rs.
1	2.6		Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in charge			
	2.6.1	5607	All kinds of soil	205.45	cum	1151958.15
2	2.8		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 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.			
	2.8.1	227	All kinds of soil	286.85	cum	65114.95
3	2.1		Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, 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, within a lead of 50 m :			
	2.10.1		All kinds of soil			
	2.10.1.2	1080	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	417.35	m	450738
4	2.25	5256	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	253.95	cum	1334761.2
5	2.25(a)	449	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	368.65	cum	165523.85
6	2.31	2964	Clearing jungle including uprooting of rank	14.5	sqm	42978

			vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared			
7	2.27	232	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2161.2	cum	501398.4
8	2.34 2.34.1		Supplying chemical emulsion in sealed containers including delivery as specified.			
		682	Chlorpyriphos emulsifiable concentrate of 20%	200.9	litre	137013.8
9	2.35		Diluting and injecting chemical emulsion for POST-CONSTRUCTION anti-termite treatment (excluding the cost of chemical emulsion) :			
	2.35.3		Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 : 2 (1 cement : 2 Coarse sand) to match the existing floor:			
	2.35.3.1	972	With Chlorpyriphos E.C. 20% with 1% concentration	256.15	sqm	248977.8
10	4.20		Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS:9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete.Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.			
	4.20.1		All works upto plinth level :			
	4.20.1.2	438	Concrete of M15 grade with minimum cement content of 240 kg /cum	8174.75	cum	3580540.5
	4.20.1.3	130	Concrete of M20 grade with minimum cement content of 270 kg /cum	8387.15	cum	1090329.5
11	5.33		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse			

		aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.			
	5.33.1	All works upto plinth level			
	5.33.1.1	737 Concrete of M25 grade with minimum cement content of 330 kg /cum	8683.8	cum	6399960.6
	5.33.2	All works above plinth level upto floor V level			
	5.33.2.1	1161 Concrete of M25 grade with minimum cement content of 330 kg /cum	10306.2	cum	11965498.2
12	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for			
	4.3.1	1481 Foundations, footings, bases for columns	307.95	sqm	456073.95
	4.3.2	482 Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc	669.55	sqm	322723.1
	4.3.3	1225 Columns, piers, abutments, pillars, posts and struts	804.25	sqm	985206.25
13	5.9	Centering and shuttering including strutting, propping etc. and removal of form for			
	5.9.2	1002 Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc	669.55	sqm	670889.1
	5.9.3	3720 Suspended floors, roofs, landings, balconies and access platform	766.55	sqm	2851566
	5.9.5	1010 Lintels, beams, plinth beams, girders, bressumers and cantilevers	608.35	sqm	614433.5
	5.9.6	2161 Columns, Pillars, Piers, Abutments, Posts and Struts	804.25	sqm	1737984.25
	5.9.7	50 Stairs, (excluding landings) except spiral-staircases	657.75	sqm	32887.5
14	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or			

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			part thereof (Plan area to be measured).			
	5.11.1	38	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	319.25	sqm	12131.5
15	6.1		Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:			
	6.1.1	394	Cement mortar 1:4 (1 cement : 4 coarse sand)	6882	cum	2711508
16	6.38	140	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry 100 mm/ 125 mm thick with Grade-I AAC blocks of density 551 to 650 kg/ cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V 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.	8890.8	cum	1244712
17	6.47	732	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry with 150mm/230mm/300 mm thick with Grade-I AAC blocks of density 551 to 650 kg/ cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V 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 seperately).	6994.15	cum	5119717.8
18	13.1		12 mm cement plaster of mix			
	13.1.1	3601	1:4 (1 cement: 4 fine sand)	294.85	sqm	1061754.85
19	13.3		20 mm cement plaster of mix :			
	13.3.1	8840	1:4 (1 cement: 4 fine sand)	402.15	sqm	3555006
20	13.12	4252	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	461.85	sqm	1963786.2
21	5.3	1293	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	64.7	m	83657.1
22	13.9		Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.			
	13.9.2	573	20mm cement plaster	507.85	sqm	290998.05
23	13.46		Finishing walls with Acrylic Smooth exterior paint of required shade			
	13.46.1	4252	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	166.85	sqm	709446.2
24	13.56		Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work			
	13.56.1	99	100 mm diameter pipes	69	m	6831

Signature of tenderer (s)

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25	13.8	12441	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	123.85	sqm	1540817.85
26	13.83		Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.			
	13.83.2	12441	two coats	121.55	sqm	1512203.55
27	13.85		Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.			
	13.85.3	12441	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	64.45	sqm	801822.45
28	11.41		Providing and laying vitrified floor tiles in different 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.			
	11.41.2	1948	Size of Tile 600x600 mm	1416.65	sqm	2759634.2
	11.41.3	880	Size of Tile 800x800 mm	1879.95	sqm	1654356
29	11.46		Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.			
	11.46.2	211	Size of Tile 600x600 mm	1466.5	sqm	309431.5
	11.46.3	82	Size of Tile 800x800 mm	1932.75	sqm	158485.5
30	11.41A		Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only .			

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			Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.			
	11.41A.3		Glazed Vitrified tiles Matt/Antiskid finish of size			
	11.41A.3.1	296	Size of Tile 600 x 600 mm	1311.05	sqm	388070.8
31	8.31	1436	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. Note: size of wall tiles shall be min 300*600 or as desired by engineer	1063.45	sqm	1527114.2
32	16.68	1639	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	951	sqm	1558689
33	8.2		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 of edges to give high gloss finish etc. complete at all levels.			
	8.2.2		Granite stone slab of colour black, Cherry/Ruby red			
	8.2.2.2	906	Area of slab over 0.50 sqm	4425.35	sqm	4009367.1
34	11.26		Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :			
	11.26.1	151	25mm thick	1706.6	sqm	257696.6
35	12.45		Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from			

		<p>M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting.</p>				
	12.45.1	2712	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)	1145.95	sqm	3107816.4
36	22.7		Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge			

			over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :			
	22.7.1	917	With average thickness of 120 mm and minimum thickness at khurra as 65 mm	1522.95	sqm	1396545.15
37	9.1		Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).			
	9.1.2	3	sal wood	106720.9	cum	320162.55
38	9.20		Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters			
	9.20.1	224	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	3086.1	sqm	691286.4
39	9.103	104	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six	739.8	each	76939.2

			levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete			
40	9.53	624	Providing 40x5 mm flat iron hold fast 400 mm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 300x100x150 mm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	194.35	each	121274.4
41	9.62		Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : (copper oxidized as per IS: 1378)			
	9.62.2	208	250*16	165.9	each	34507.2
42	9.75		Providing and fixing bright finished brass door latch with necessary screws etc. complete :			
	9.75.1	104	300*16*5	273.2	each	28412.8
43	9.81		Providing and fixing bright finished brass handles with screws etc. complete:			
	9.8.1	212	125mm	205.1	each	43481.2
44	9.82	106	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	109.6	each	11617.6
45	9.83	106	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete	1025.65	each	108718.9
46	9.121	317	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	702.6	metre	222724.2
47	9.122.2	101	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-	3963.7	sqm	400333.7

			charge.			
48	9.147D		Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered bframe 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). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.			
	9.147D.2	86.4	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	10030.3	Sqm	866617.92
	9.147D.4	46	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	9642.6	Sqm	443559.6
49	9.147B		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). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
	9.147B.1	31	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)	7249.9	kg	224746.9
50	9.151	204	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.	94.9	Nos	19359.6
51	21.3		Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):			
	21.3.2	165	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	1325.55	sqm	218715.75
52	21.8		Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete			
	21.8.1	651	Upto 5mm depth and 5 mm width	85.25	metre	55497.75
	12.1		Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel			

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			primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.			
53	12.1.1	150	1.00 mm thick with zinc coating not less than 275 gm/m ²	1320.35	sqm	198052.5
54	16.1	1422	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres	180.5	sqm	256671
55	16.79	214	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density, complete as per specifications and directions of Engineer-in-Charge.	2803.65	cum	599981.1
56	16.8	214	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineerin-charge	4130.55	cum	883937.7
57	16.75	214	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-incharge. (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	8277.55	cum	1771395.7

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			per design mix is payable/ recoverable separately			
58	16.46	276	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.	7.5	Per cm width per cm depth per m length	2070
59	16.69	29	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)	8613.55	cum	249792.95
60	12.41		Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.			
	12.41.1	287	75 mm diameter	213	metre	61131
	12.41.2	390	110mm diameter	319.75	metre	124702.5
61	12.42		Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.			
	12.42.1		coupler			
	12.42.1.1	126	75mm	79.8	each	10054.8
	12.42.1.2	174	110mm	119.95	each	20871.3
	12.42.5		Bend 87.5°			
	12.42.5.1	126	75mm bend	91.8	each	11566.8
	12.42.5.2	174	110mm bend	132	each	22968
62	12.44	14	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	47.9	each	670.6
63	18.8		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC			

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			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 of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.			
	18.8.1	112	15 mm nominal dia Pipes	441.15	m	49408.8
	18.8.2	263	20 mm nominal dia Pipes	513.75	m	135116.25
	18.8.3	117	25 mm nominal dia Pipes	626.05	m	73247.85
64	18.9		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge			
			external work			
	18.9.3	106	25 mm nominal dia Pipes	370.65	m	39288.9
	18.9.6	339	50 mm nominal dia Pipes	811.85	m	275217.15
65	17.28		Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.			
	17.28.2		flexible pipe			
	17.28.2.1	35	32mm dia	104.35	each	3652.25
66	18.17		Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)			
	18.17.1	64	25 mm nominal bore	532.35	each	34070.4
	18.17.4	8	50 mm nominal bore	878.25	each	7026
67	17.1		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:			
	17.1.1	15	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	5781.35	each	86720.25
68	17.2		Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :			
	17.2.1	24	W.C. pan with ISI marked white solid plastic	5540.55	each	132973.2

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			seat and lid			
69	17.16A	24	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge	299.35	each	7184.4
70	17.7		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:			
	17.7.1	33	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	2275	each	75075
71	17.73		Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour			
	17.73.2	57	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	600.35	each	34219.95
72	17.74	57	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms	607.05	each	34601.85
73	18.16		Providing and fixing brass stop cock of approved quality :			
	18.16.1	65	15mm	303.85	each	19750.25
74	18.48	20000	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	9.7	per litre	194000
75	18.49		Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :			
	18.49.1	98	15 mm nominal bore	434.2	each	42551.6
76	18.62		Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.			
	18.62.5	4	50 mm nominal bore, 242mm long, weighing not less than 1240 gms	1188.55	each	4754.2
77	19.1		Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :			
	19.1.2	538	150 mm diameter	591.4	m	318173.2
	19.1.5	172	300mm diameter	1774.5	m	305214
78	19.2	16	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	671.75	each	10748

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79	19.4		Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 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:			
	19.4.3		180x150 mm size P type			
	19.4.3.1	16	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2534	each	40544
80	19.6		Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :			
	19.6.4	27	300 mm dia. R.C.C. pipe	902.05	metre	24355.35
81	19.7		Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 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 :			
	19.7.1		Inside size 90x80 cm and 45 cm deep including C.I. Cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :			
	19.7.1.1	46	With common burnt clay F.P.S. (non modular)bricks of class designation 7.5	11687.1	each	537606.6
	19.7.2		Inside size 120x90 cm and 90 cm deep including C.I. Cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :			
	19.7.2.1	16	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	24405.9	each	390494.4
82	19.15		Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :			
	19.15.1	186	With 20x20 mm square bar	461.35	each	85811.1
83	17.1		Providing and fixing Stainless Steel A ISI 304			

			(18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :			
	17.10.2		Kitchen sink without drain board			
	17.10.2.2	2	610x460 mm bowl depth 200 mm	3337.85	each	6675.7
84	2.2	177	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment)	515.6	cum	91261.2
85	2.4		Supplying and stacking at site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment)			
	2.4.1	30	Screened through sieve of I.S. designation 20 mm	254.15	cum	7624.5
86	2.11	588	Renovating lawns including weeding, cheeling the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed, including supplying good earth if needed (the cost of sludge, manure and the good earth shall be paid for separately)	34.4	sqm	20227.2
87	2.34	588	Providing & laying Selection no. 1 doob grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	87.5	per sqm	51450
88	6.12	2000	Providing and stacking of Duranta Golden, having ht.15 to 20 cm bushy shape with fresh and healthy leaves in 15 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge.	20	each	40000
89	23.2		Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.			

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	23.2.1		All types of soil			
	23.2.1.1	300	300 mm dia	690.7	metre	207210
90	23.4		Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.			
	23.4.3	300	200 mm nominal size dia	1099.25	metre	329775
91	23.12	20	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	916.8	hour	18336
92	23.13		Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:			
	23.13.3	1	200 mm dia	280.95	each	280.95
93	23.14		Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:			
	23.14.3	1	200 mm dia	1827	each	1827
94	23.15		Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:			
	23.15.3	1	200 mm dia	308.55	each	308.55
95	DSR 2021		Misc.DSR 2021 items for successful execution of work			2000000
96	10.28	4163	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the	612.25	kg	2548796.75

Signature of tenderer (s)

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			floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).		
			TOTAL AMOUNT OF SCHEDULE-A		88935555.02
			Less 21 % below on Schedule - A		1,86,76,466.55
			GRAND TOTAL OF SCHEDULE-A		7,02,59,088.47

Signature of tenderer (s)
Date:

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Schedule- A1

Schedule of Approximate quantities

Sr. No.	Item No.	Total Qty.	Item of work	Rate	UNIT	Amount in Rs.
1	9-4 2.		Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having			
			[D] For 5 HP 3 phase open well horizontal mono block pump set suitable for 1350 LPM to 310 LPM @ 10 to 42 Mtr head suitable for 50/65 mm dia delivery pipe			
		2	Cat.II	18498.15	each	36996.3
2	9-5 3.		Supplying & erecting approved make motor control cubical panel [Star delta] made from 16G CRCA sheet duly epoxy powder painted inside and outside with hinged doors and locking with suitable size of ON - OFF isolator (AC 3 / 23 duty) main fuses. Digital volt and current meter (in a single unit) with micro controller based control unit and current sensing single phasing preventer electronic overload protection, over voltage (Programmable) protection and under voltage (Programmable) protection, prod less dry run protection programming facility for setting of all parameter like overload current, high voltage limit, low voltage limit, dry run limit with digital indication on seven segment LED display for any fault like over load, high voltage, low voltage, dry running single crimped, electronic star delta timer, feather touch start / stop push buttons to be erected on angle iron frame. Grouted on wall the contactors will be of L & T, Siemens, BCH make only)			
		2	(A) DOL up to 5.0 H.P.	8554.7	each	17109.4
3	9-6 14.		Supplying submersible pump set for bore of 200 mm. dia. or more having 3 phase motor capacity about 50-55 H.P discharge capacity having			
			(A) (13 Stage) 100 to 400 L.P.M. discharge at the head 182 to 265 mtrs. suitable for 80 mm dia. Delivery pipe			
		1	Cat.III	115544	each	115544
4	9-6 18.		Lowering of submersible motor pump set at the depth of following ,complete with required. Nos. and size of casing pipes			

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			erected by means of proper chain pulley block & pipe wrenches after checking of threads of each pipe with coupling to take the load of the pump set and pipe assembly filled up with water			
		1	(C)Above 120 mtr.	3535	Per Job	3535
5	9-7 1.		Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size.			
		350	(G)3 Core x 25 Sq. mm	762.55	Metre	266892.5
			TOTAL AMOUNT OF SCHEDULE-A1			440077.20

Signature of tenderer (s)

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Date:

For CGM/DFCCIL/Ahmedabad

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Schedule- B

Schedule of Approximate quantities

Sr. No.	Item No.	Total Qty.	Item of work	Rate	UNIT	Amount in Rs.
1	5.22		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.			
	5.22.6	174574	Thermo-Mechanically Treated bars of grade Fe-500D or more	89.65	kg	15650559.1
	5.22A		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.			
2	5.22A.6	267205	Thermo-Mechanically Treated bars of grade Fe-500D or more.	89.65	kg	23954928.25
	9.48		Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete			
3	9.48.2	10285	Fixed to openings /wooden frames with rawl plugs screws etc	197.7	kg	2033344.5
4	10.2	11250	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	111.95	kg	1259437.5
			TOTAL AMOUNT OF SCHEDULE-B			33889632.79

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Schedule- C

Schedule of Approximate quantities

Sr. No.	Item No.	Item of work	UNIT	Quantity	Rate	Amount in Rs.
1	NS/1	Supplying, installation, testing and commissioning of electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required: (a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. (b) Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 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. (c) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. (d) Suitable cement concrete foundation duly plastered with anti vibration pads. 1.1 / 1180 lpm at 70 m Head.	No.	1.00	455251.58	455251.58
2	NS/2	Supplying, 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) Horizontal type, 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. Suitable cement concrete foundation duly plastered and with anti vibration pads. 3.1 180 lpm at 70 m Head	No.	1.00	127497.35	127497.35
3	NS/3	Fabrication, supply, Installation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection with	No.	1.00	248187.30	248187.30

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For CGM/DFCCIL/Ahmedabad

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, pressurisation 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 : 5.1 INCOMING - 250A, 50kA 4 Pole MCCB, Ics=100% Icu rating Digital Voltmeter 0-500V with selector switch Digital Ammeter (0-250 A) with selector switch & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 300A. OUTGOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches and LED type ON, OFF, trip indicating lamps) Main Fire Pump 125 A, 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. Jockey Pump 63 A, 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. DIESEL ENGINE CONTROL 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, annunciation window for fault indication, complete as per specification.

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4	NS/4	Supply, installation testing and commsioning of priming tank-1000 ltr from pvc suitable supporting, with required necessary valve and connection with required accessories.	No.	1.00	26530.00	26530.00
5	NS/5	Supply, Installation, Testing and Commission of Pressure switches for Automation of fire pumps. Pressure switches shall be SPDT type suitable for single phase supply with diaphragm, with IP 66 protection as required.	No.	2.00	4815.00	9630.00
6	NS/6	Providing, fixing, testing & commissioning of 3.5 Core Alluminium Armoured Cable of required size from Panel to Pump.	Rmt	260.00	917.08	238440.80
7	NS/7	Providing, fixing, testing & commissioning of 3 C x 1.5 Sqmm flexible cable for Pressure Switch.	Rmt	180.00	115.06	20710.80
8	NS/8	Providing, fixing, testing & commissioning of suitable Cable Tray for Fire Hydrant Electric wiring 150 x 50 mm.	Rmt	130.00	726.45	94438.50
9	NS/9	Supply, Installation, Testing and Commissioning of 100 mm dia Pressure Gauge (for all pipes) of range 0 - 15 Kg/cm ² conforming to IS - 3624 having bourdon tube of stainless steel 310 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc. as per required.	No.	5.00	3624.80	18124.00
10	NS/10	Supply, Installing, Testing and Commissioning of C.I. Heavy duty foot valve with flanges, Nut bolts, Gaskets etc. with necessary complete accessories. (a) 150 mm dia.	No.	2.00	32185.20	64370.40
11	NS/11	Supply, Installing, Testing and Commissioning of C.I. Heavy duty foot valve with flanges, Nut bolts, Gaskets etc. with necessary complete accessories. (b) 80 mm dia.	No.	2.00	8435.60	16871.20
12	NS/12	Providing, fixing, testing and commissioning of G.I. ERW C Class heavy duty pipes as per IS: 1239 (upto 150 mm dia.) and IS: 3589 (upto 200 mm dia. and above) including cutting, screwing, welding etc. and providing all fittings like flanges, bends, tees, elbows, reducers, clamps, hangers etc. with painting of one coat of primer and 2 or more coats of synthetic enamel paint of approved make / shade complete as per specification. 200mm dia.				
	A	150 mm dia.	Rmt	300.00	3847.50	1154250.00
	B	100 mm dia.	Rmt	515.00	2592.00	1334880.00
	C	80 mm dia.	Rmt	210.00	1822.50	382725.00
	D	50 mm dia.	Rmt	180.00	1161.00	208980.00
	E	25 mm dia.	Rmt	150.00	850.50	127575.00
13	NS/13	Wrapping & coating of Underground pipe with Pypkote pipe coating etc. suitable for pipe size				

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	A	150 mm dia.	Rmt	125.00	750.50	93812.50
	B	100 mm dia.	Rmt	150.00	690.80	103620.00
14	NS/14	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required. 150 mm dia.	No.	2.00	9285.99	18571.98
	A	100 mm dia.	No.	10.00	6918.54	69185.40
	B	80 mm dia.	No.	4.00	4207.71	16830.84
	C	50mm dia.	No.	4.00	3905.82	15623.28
15	NS/15	Supply, Installation, Testing and Commissioning of Cast iron Dual plate Check valve (PN 1.6)				
	A	100 mm dia.	No.	4.00	5858.00	23432.00
	B	80 mm dia	No.	2.00	4040.00	8080.00
16	NS/16	Supply, installation, testing and commissioning S.S. Single Headed Fire Hydrant Valve with 80mm N.B. flanged inlet, 63mm dia. female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories conforming to IS:5290.	No.	10.00	7568.94	75689.40
17	NS/17	Supply, Installation, Testing and Commissioning of Weather proof Standard Fire Hose Cabinet wall mounting type (750 mm x 600 mm x 250 mm deep) having single or double opening with necessary locking arrangement by allan key suitable for housing 2 nos. hose pipe, 1 no. branch pipe & nozzle spanner.	No.	10.00	5636.00	56360.00
18	NS/18	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 2 x 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with copper rivets & 1.5 mm copper wire.	No.	16.00	5239.88	83838.08
19	NS/19	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe, 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	No.	8.00	2826.02	22608.16
20	NS/20	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose of 25 mm dia x 30 mtr. long, painting, swinging type fixing bracket, anchor fastener, bolts & nuts etc.	No.	8.00	8897.13	71177.04
21	NS/21	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm dia.	No.	8.00	2809.01	22472.08
22	NS/22	Supply, installation, testing and commissioning of Gun Metal Ball Valve. (a) 25mm dia.	No.	8.00	1509.00	12072.00
23	NS/23	Fire Service In-let (In-let Connection for Fire	No.	4.00	8757.00	35028.00

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		Brigade) - 4 Way Type. Supply, Installation and Testing of : Fire Service Inlet with necessary hardware and consumables. MOC :- Body: Heavy-duty CI Couplings / NRV: Gun metal. Standard :- Made as per IS Standard- Heavy duty quality. Size :- Couplings: 63 mm, 150 mm E-table Flange End.				
24	NS/24	FIRE EXTINGUISHER Supply, installation, testing and commissioning of Carbon Dioxide (CO2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	No.	20.00	6616.00	132320.00
25	NS/25	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	No.	20.00	3520.00	70400.00
26	NS/26	Providing & fixing photo luminescent Signage"s as per IS standard in Block / Small Letters on rigid sheet with necessary wall or Ceiling fittings as specified Sizes : For Fire Extinguisher (8" x 4")	No.	10.00	280.00	2800.00
27	NS/27	Fire Fighting equipments sign (8" x 12")	No.	10.00	620.00	6200.00
28	NS/28	Emergency Exit Sign (4" x 12")	No.	20.00	280.00	5600.00
29	NS/29	Case of Fire do not use Lift, Use Staircase Sign (8" x 8")	No.	5.00	350.00	1750.00
30	NS/30	Fire Lift Sign (4" x 12")	No.	5.00	280.00	1400.00
31	NS/31	Fire Pump Room Sign (8" x 12")	No.	2.00	620.00	1240.00
32	NS/32	Fire Alarm Panel Sign (4" x 12")	No.	2.00	280.00	560.00
33	NS/33	Floor Number Sign (4" x 12")	No.	8.00	280.00	2240.00
34	NS/34	FIRE ALARM SYSTEM SITC of conventional type Fire Alarm Control Panel for required zone.	No.	2.00	15850.00	31700.00
35	NS/35	Manual Call Point with re-settable glass (No need to replace the broken glass).	No.	8.00	1220.00	9760.00
36	NS/36	Electronic Hooter Conventional Sounder (Hooter).	No.	10.00	1220.00	12200.00
37	NS/37	Pump On-Off Switch	No.	5.00	1460.00	7300.00
38	NS/38	Supply, installation, testing and commissioning of Flexible Copper Conductor Cable in PVC Conduit for Fire Alarm System with all necessary accessories. Size: 2 core x 1.5 sq.mm.	Rmt	500.00	105.00	52500.00
		TOTAL AMOUNT OF SCHEDULE-C				5594832.69

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Schedule- D

Schedule of Approximate quantities

Sr. No.	Item No.	Description	UNIT	Total Quantity	Rate	Amount in Rs.
1	DSR-E & M-1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	DSR-E & M-1.10.1	Group A	Point	815	1015.00	827225.00
	DSR-E & M-1.10.2	Group B	Point	326	1182.00	385332.00
2	DSR-E & M-1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	8	1562.00	12496.00
3	DSR-E & M-1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as equired.				
	DSR-E & M-1.14.1	2 X 1.5 sq.mm + 1X 1.5 sq.mm earth wire	Meter	1900	233.00	442700.00
	DSR-E & M-1.14.2	2 X 2.5 sq. mm +1X 2.5 sq.mm earth wire	Meter	6545	275.00	1799875.00
	DSR-E & M-1.14.3	2 X 4 sq. mm +1X 4 sq. mm earth wire	Meter	1885	334.00	629590.00
	DSR-E & M-1.14.4	2 X 6 sq. mm +1X 6 sq. mm earth wire	Meter	120	439.00	52680.00
	DSR-E & M-1.14.10	4 X 10 sq. mm+ 2 X 6 sq. mm earth wire	Meter	1310	1005.00	1316550.00
4	DSR-E & M-1.22	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.				
	DSR-E & M-1.22.2	100 mm X 100 mm X 60 mm deep	Each	50	209.00	10450.00

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	DSR-E & M-1.22.3	150 mm X 75 mm X 60 mm deep	Each	10	216.00	2160.00
	DSR-E & M-1.24	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
	DSR-E & M-1.24.5	6 pin 15/16 A socket outlet	Each	46	197.00	9062.00
5	DSR-E & M-1.24.6	Telephone socket outlet	Each	164	148.00	24272.00
6	DSR-E & M-1.25	Supplying and fixing 2 module stepped type electronic fan regulator on the existing modular plate switch box including connection but excluding modular plates as required.	Each	270	369.00	99630.00
7	DSR-E & M-1.26	Supplying and fixing modular blank plate on the existing modular plate & switch box excluding modular plates as required.	Each	100	40.00	4000.00
8	GUJR & BELE SOR-1-2-7-20.	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (20) Modular Buzzer Cat-III	Each	50	167.66	8383.00
	DSR-E & M-1.27	Supplying and fixing following size / modules, GI box along with modular base & cover plate for modular switches recess etc. as required				
	DSR-E & M-1.27.1	1 or 2 Module (75mmX75mm)	Each	465	298.00	138570.00
9	DSR-E & M-1.27.3	4 Module (125mmX75mm)	Each	46	343.00	15778.00
	DSR-E & M-1.28	Supplying and fixing following modular base & cover plate on existing modular metal boxes etc. as required.				
	DSR-E & M-1.28.1	1 or 2 Module (75mmX75mm)	Each	465	133.00	61845.00
10	DSR-E & M-1.28.3	4 Module	Each	46	158.00	7268.00
11	DSR-E & M-1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	711	477.00	339147.00
12	DSR-E & M-1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required	Each	272	586.00	159392.00
13	DSR-E & M-1.33	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block	Each	114	87.00	9918.00

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		including connections etc. as required				
14	GUJ R & B ELE SOR-5-2-3.	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	Each	225	126.25	28406.25
15	DSR-E & M-1.57	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.	Each	46	727.00	33442.00
	DSR-E & M-2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB /RCCB /Isolator)				
16	DSR-E & M-2.3.2	8 way , Double door	Each	5	2573.00	12865.00
	DSR-E & M-2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
17	DSR-E & M-2.4.3	8 way (4 + 24), Double door	Each	23	5967.00	137241.00
	DSR-E & M-2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	DSR-E & M-2.10.1	Single pole	Each	543	256.00	139008.00
18	DSR-E & M-2.10.3	Double pole	Each	27	656.00	17712.00
	DSR-E & M-2.13	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
19	DSR-E & M-2.13.2	63 A	Each	24	1034.00	24816.00
20	DSR-E & M-2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete connections, testing and commissioning etc. as required. with				

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	DSR-E & M-2.14.1	25A	Each	83	2028.00	168324.00
	DSR-E & M-2.15	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	DSR-E & M-2.15.2	40A	Each	5	3188.00	15940.00
21	DSR-E & M-2.15.3	63A	Each	24	2872.00	68928.00
22	DSR-E & M-2.16	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	Each	5	1169.00	5845.00
23	DSR-E & M-2.17	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 A 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	Each	3	1592.00	4776.00
24	DSR-E & M-2.21	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	10	269.00	2690.00
	DSR-E & M-2.23	Supplying and fixing Cable End Box (Loose wire Box) suitable for following single pole and neutral , sheet steel , MCB distribution board, 240 volts, on surface / recess, complete with testing commissioning etc. as required.				
25	DSR-E & M-2.23.2	For, 8 way Double Door SPN MCBDB	Each	5	832.00	4160.00
	DSR-E & M-2.24	Supplying and fixing Cable End Box (Loose wire Box) suitable for following triple pole and neutral , sheet steel , MCB distribution board, 415 volts, on surface / recess, complete with testing commissioning etc. as required.				
26	DSR-E & M-2.24.3	For, 8 way Double Door TPN MCBDB	Each	23	1340.00	30820.00
	DSR-E & M-2.2	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
	DSR-E & M-2.2.13	100 A,30KA,FPMCCB	Each	40	7723.00	308920.00
	DSR-E & M-2.2.14	125 A,36KA,FPMCCB	Each	16	8209.00	131344.00
27	DSR-E & M-2.2.15	200 A,36KA,FPMCCB	Each	2	15206.00	30412.00

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	DSR-E & M-2.2.16	250 A,36KA,FPMCCB	Each	2	17510.00	35020.00
	DSR-E & M-2.2.19	630 A,50KA,FPMCCB	Each	2	43092.00	86184.00
28	GUJ R & B ELE SOR-3-4-13.	Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220V AC. with all internal connections & complete erected in existing M.S.housing..				
		(2) 125 A -200 A , CT Ratio 1/200	Each	7	5878.20	41147.40
		(3) 250 A -400 A , CT Ratio 1/400	Each	1	6388.25	6388.25
		(4) 600 A -800 A , CT Ratio 1/800	Each	1	7145.75	7145.75
29	GUJ R & B ELE SOR-3-4-14.	Providing and erecting following additional parts for panel mounting MCCBs				
		(A)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 25A to 250 A panel mounting cat-III	Each	60	1030.20	61812.00
		(B)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 400A to 630 A panel mounting cat-III	Each	2	1545.30	3090.60
30	GUJ R & B ELE SOR-3-5-4-(2)-B.	Approved make standard Draw out type 4 Pole Air circuit breaker. Having 50 kA breaking capacity with ICU=ICS=ICW (1 sec)Vsr=690 v, Ui=1kv ,impulse voltage=12 kv with following type of relay and accessories. (2) Electrically Draw out type (EDO) with following type of relay system(B) with microprocessor Release with over load, short circuit, earth fault protection and metering display in modular design with LED display and Test Trip button facility, CTs and auxiliary contacts, of following current ratings. (ii) 1000Amp 50 kA Cat III	Each	4	165347.10	661388.40
31	GUJ R & B ELE SOR-3-5-5.	Providing & erecting Accessories For Air Circuit Breakers as follows:				
		(B) Lockable Trip Push Button Type A,B,C,D	Each	16	2494.70	39915.20
		(C) Lockable Trip Push Button Kit L, M, LM, MN	Each	16	11291.80	180668.80
		(E) Locking of ACB in Any Position	Each	4	2555.30	10221.20
		(F) Racking Inter Lock	Each	4	4726.80	18907.20
		(G) Door Inter Lock	Each	4	2555.30	10221.20
32	GUJ R & B ELE SOR-3-16-1-A.	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal				

	partitions with necessary accessories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size.				
	(A) locally fabricated panel board (i) with 350 mm depth	SQ.M TR	15.67	12352.30	193560.54
	(A) locally fabricated panel board (iv) with 1000 mm. depth	SQ.M TR	11.00	32017.00	352187.00
33	GUJR & B ELE SOR-3-16-9-A. Providing & erecting weather proof, dust & vermin proof, floor mounted front operated outdoor type double door cubical panel board necessary IP-54 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accessories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper				

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		Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size.				
		(A) locally fabricated panel board (ii) With 550 mm. Depth	SQ.M TR	3.45	17563.90	60595.46
34	GUJ R & B ELE SOR-3-16-4-A.	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	Kg.	500	90.90	45450.00
	GUJ R & B ELE SOR-3-8-1.	Supplying and erecting triple pole & neutral 440V/ 500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections.				
		(B) Suitable for 200 Amp. Capacity	R. MTR.	13.5	1222.10	16498.35
		(C) Suitable for 300 Amp. Capacity	R. MTR.	2.0	1732.15	3464.30
		(E) Suitable for 630 Amp. capacity	R. MTR.	2.0	3610.75	7221.50
35		(G) Suitable for 1200 Amp.capacity	R. MTR.	9.0	9387.95	84491.55
36	GUJ R & B ELE SOR-3-17-5.	Providing and erecting multifunctional meter suitable for application of Power monitoring and showing measurement of following Voltage, Frequency, Apparent energy, Apparent power, Active and reactive energy, Active and reactive power, Average voltage Vavg, Peak demand power PM, QM, SM, Demand power P, Q, S, Apparent power S, S1, S2, S3, Unbalance current, Power factor and displacement PF (signed, four quadrant), Calculated neutral current, Active, reactive, apparent energy (signed, four quadrant), Active power P, P1, P2, P3, Voltage U21, U32, U13, V1, V2, V3, Phase currents, Average current lag, Peak demand currents, Reactive power Q, Q1, Q2, Q3, Demand current I1, I2, I3, [Us] rated supply voltage 40...300 V AC	Each	12	16665.00	199980.00

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		45...65 Hz, 40...300 V DC, Network frequency 50 Hz, Type of network 3P, Display type 7 segments LED, Display colour Red, Messages display capacity 3 fields of 4 characters, Display digits 12 digit(s) - 14.2 mm in height				
37	GUJ R & B ELE SOR-9-2-7.	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter	Each	33	323.20	10665.60
38	GUJ R & B ELE SOR-9-2-9.	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	Each	33	50.50	1666.50
39	DSR-E & M-5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	17	7472.00	127024.00
40	DSR-E & M-5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2	13838.00	27676.00
41	DSR-E & M-5.7	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Meter	210	51.00	10710.00
42	DSR-E & M-5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Meter	30	1162.00	34860.00
43	DSR-E & M-5.15	Providing and fixing 25 mm X 5 mm G.1. strip on surface or in recess for connections etc. as required.	Meter	255	244.00	62220.00
44	DSR-E & M-5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Meter	40	70.00	2800.00
45	GUJ R & B ELE SOR-4-3-3-C.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (C) 3 1/2 core 50 Sq. mm (25 Sq.1/2 mm core)	MTR	480	330.27	158529.60
46	GUJ R & B ELE SOR-4-3-3-H.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (H) 3 1/2 core 185 Sq. mm (95 Sq. mm 1/2 core)	MTR	80	1060.50	84840.00
47	GUJ R & B ELE	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium	MTR	360	1369.56	493041.60

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	SOR-4-3-3-I.	conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (I) 3 1/2 core 240 Sq. mm(120 Sq. mm 1/2 core)				
48	GUJ R & B ELE SOR-4-3-4-C.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (C) 4 core 10 Sq. mm	MTR	450	161.60	72720.00
49	GUJ R & B ELE SOR-4-3-5-A.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 4 core 16 Sq. mm	MTR	250	176.75	44187.50
50	GUJ R & B ELE SOR-4-3-5-B.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 25 Sq. mm	MTR	40	221.19	8847.60
51	DSR-E & M-4.1	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.				
	DSR-E & M-4.1.2	150 mm width x 50 mm depth x 1.6 mm thickness	Meter	200	604.00	120800.00
	DSR-E & M-4.1.4	300 mm width x 50 mm depth x 1.6 mm thickness	Meter	40	777.00	31080.00
52	DSR-E & M-7.3	Laying of one number of PVC insulated and PVC sheathed / XLPE Power cable of 1.1 kv grade of folloeing size direct in ground including excavation, refilling the trench etc as required, but excluding sand cushioning and protective covering.				
	DSR-E & M-7.3.1	Upto 35 sq. mm	Meter	500	200.00	100000.00
	DSR-E & M-7.3.2	Above 35 sq. mm and upto 95 sq. mm	Meter	120	217.00	26040.00
	DSR-E & M-7.3.4	Above 185 sq. mm and upto 400 sq. mm	Meter	60	287.00	17220.00
53	DSR-E & M-7.4	Laying of one number additional PVC insulated and PVC sheathed / XLPE Power cable of 1.1 kv grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, refilling the trench etc as required, but excluding sand cushioning and protective covering.				
	DSR-E & M-7.3.1	Upto 35 sq. mm	Meter	100	126.00	12600.00

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	DSR-E & M-7.3.2	Above 35 sq. mm and upto 95 sq. mm	Meter	250	143.00	35750.00
	DSR-E & M-7.3.4	Above 185 sq. mm and upto 400 sq. mm	Meter	60	213.00	12780.00
	DSR-E & M-7.6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
	DSR-E & M-7.6.1	Upto 35 sq. mm	Meter	30	28.00	840.00
	DSR-E & M-7.6.2	Above 35 sq. mm and upto 95 sq. mm	Meter	70	45.00	3150.00
	DSR-E & M-7.6.3	Above 95 sq. mm and upto 185 sq. mm	Meter	60	63.00	3780.00
54	DSR-E & M-7.6.4	Above 185 sq. mm and upto 400 sq. mm	Meter	90	115.00	10350.00
	DSR-E & M-7.7	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
55	DSR-E & M-7.7.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	Meter	80	55.00	4400.00
	DSR-E & M-7.8	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
	DSR-E & M-7.8.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	Meter	30	45.00	1350.00
	DSR-E & M-7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25 x 3 mm MS flat clamp)	Meter	100	92.00	9200.00
56	DSR-E & M-7.8.4	Above 185 sq. mm and upto 400 sq. mm (clamped with 40 x 3 mm MS flat clamp)	Meter	100	185.00	18500.00
	DSR-E & M-7.10	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	20	508.00	10160.00
	DSR-E & M-9.1	Supplying and making end termination with brass compression gland and alluminium lugs for folloeing size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1kv grade as required.				
	DSR-E & M-9.1.22	3½ X 50 sq. mm (35mm)	Each	16	413.00	6608.00
	DSR-E & M-9.1.27	3½ X 185 sq. mm (57mm)	Each	6	875.00	5250.00
	DSR-E & M-9.1.29	3½ X 240 sq. mm (62mm)	Each	40	1027.00	41080.00
	DSR-E & M-9.1.32	4 X 10 sq. mm (25mm)	Each	36	269.00	9684.00
58	DSR-E & M-9.1.33	4 X 16 sq. mm (28mm)	Each	10	309.00	3090.00

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	DSR-E & M-9.1.34	4 X 25 sq. mm (28mm)	Each	2	315.00	630.00
	DSR-E & M-14.15	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. in the existing trench, complete as required.				
	DSR-E & M-14.15.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	Meter	450	127.00	57150.00
59	DSR-E & M-14.15.3	120 mm dia (OD-120 mm & ID-103 mm nominal)	Meter	600	248.00	148800.00
60	GUJ R & B ELE SOR-2-16-4.	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V, Power Factor more than 0.9, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 100 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (iii) 16-20 watts, Surge-2 KV Cat.III	Each	442	767.60	339279.20
61	GUJ R & B ELE SOR-2-16-2.	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.9, THD < 15%,CCT 3000 K to 6500K, Luminaire efficacy> 100 lumens/watt ,LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)				
	(A) Tube Light with integral driver (i) 5-10		Each	81	212.10	17180.10

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		Watts, Surge-2 KV, IP-20, conventional 1 to 2 feet Cat.III				
		(A) Tube Light with integral driver (iii) 18-20 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat.III	Each	312	383.80	119745.60
62	GUJ R & B ELE SOR-2-12-2..	Supplying decorative table lamp with LED lamps of suitable nos equivalent of 11 W light with flexible copper wire cord with plug top. Cat.III	Each	122	808.00	98576.00
63	GUJ R & B ELE SOR-2-16-3.	Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (A) LED Lamps integral type, with PC diffuser suitable LAMP holder (ii) 5 to 8 watts Cat.III	Each	156	146.45	22846.20
64	GUJ R & B ELE SOR-2-16-4.	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.9, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 100 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (I) Adjustable spot light with COB led having aluminium reflector of following wattage (iv) 30 Watts Cat.III	Each	17	2828.00	48076.00
65	DSR-E & M-19.1	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm,	Each	270	2730.00	737100.00

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		suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.				
66	GUJ R & B ELE SOR-5-3-3.	Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame. 200mm with 1350RPM Cat.II	Each	53	2009.90	106524.70
	DSR-E & M-1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
67	DSR-E & M-1.50.1	Upto 450 mm sweep	Each	44	450.00	19800.00
68	GUJ R & B ELE SOR-8-13-2.	Providing & erecting water cooler having storage capacity 150 Ltr. & cooling capacity 150 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15°C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating, coil, thermostats, relay etc.complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel.	Each	1	55045.00	55045.00
69	GUJ R & B ELE SOR-8-13-6-D.	Supplying & erecting reverse osmosis (RO) water purification system with M.S. powder coated pedestal frame, prefilter housing carbon filter suitable buster DC pump, auto low & high pressure switches with following size of LPH capacity & erected as directed [D] 100 LPH with 1 phase / 3 phase Raw water pump of 500LPH @ 2.5kg/cm2 - (1No - Kirloskar /CRI/Lubi), Dual media filter 10"x54" - (1 No), Micron cartridge filter 20" x 2.5" (1No), High pressure pump 500LPH @ 10kg/cm2 - (1No - Shimge /CRI /Lubi), RO Membrane housing with RO membrane of 40*40 - (1No), RO pressure tube 4" x 1E - (1No), 0 - 1200LPH Rotameter -(2 Nos), with Recovery Rate 50%.	Each	1	76760.00	76760.00
70	GUJ R & B ELE SOR-8-16-2-A.	Supplying and erecting horizontal / vertical mounting type storage water heater with copper container housed in M.S./S.S./ABS body insulated with glass wool/puff complete with heating elements,adjustable thermostats 300C to 850C, indicating lamp, safety valve, fusible plug, etc.complete erected with coach bolts, nuts, washers & cementation (A) 10 Ltr. with 3 KW. heating element Premium Category	Each	28	8292.10	232178.80
71	GUJ R & B ELE SOR-2-17-2.	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w				

		and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V,Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K,Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)				
		(A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (ii) above 48 to 60 Watts Cat-III	Each	28	6529.65	182830.20
		(B) Flood Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (v) above 120 to 160 watts Cat-III	Each	5	11059.50	55297.50
72	GUJ R & B ELE SOR-6-1-4.	Supplying and erecting approved make Octagonal pole made from HR sheet steel. The pole should be made as per IS. and shall be coated with hot dip galvanizing as per IS 2629/2633/4759, suitable suspend local wind speed with integral Junction box consist of terminal plate of min 6mm Hylam sheet, standard profile 35mmX7.5mm Din-Rail for MCB Mounting, stud type terminal and arrangement for cable termination to be erected With Suitable foundation (Included) as per details given by manufacturer considering site requirement.				
		(C) 5 Mtr. Long 70 mm Top X 130 mm bottom dia, 3 mm thickness with 200mmX200mmX12mm base plate, 4-M16 Bolts and 600mm long J-Bolt.Approx Pole weight 46 kg	Each	13	8110.30	105433.90
	DSR-E & M-11.3	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.				
73	DSR-E & M-11.3.1	Above 4.5 metre and upto 6.5 metre	Each	13	5121.00	66573.00
74	GUJ R & B ELE SOR-6-5-4-b.	Supplying and erecting Street light pole bracket comprising main B Class GI pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I. sleeve tubing of approx. 45cms.length and suitable for				

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		76.5mm/80mm/require size of pole top having nuts and bolts for fixing the brackets and having spread of 0.5 mtr. Length with 110 deg.with vertical plane and suitable welded stiffener reducer and nipple with check nut complete painted with one coat.of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms.				
		[A] Single Arm bracket 0.5 Mtr	Each	7	578.73	4051.11
		[B] Double Arm Bracket 0.5 Mtr	Each	3	733.26	2199.78
		[C] Three Arm Bracket 0.5 Mtr	Each	2	876.68	1753.36
		[D] Four Arm Bracket 0.5 Mtr	Each	1	1048.38	1048.38
75	DSR-E & M-15.4	Supplying,installation,testing and commissioning of Astronomical time switch of following configuration to be mounted in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.				
	DSR-E & M-15.4.3	3 output(1output per phase) and suitable for three phase supply	Each	1	10597.00	10597.00
76	GUJ R & B ELE SOR-6-7-5-D.	Supplying & erecting power contactor ,AC3 duty for time switch complete erected as per direction Cat III (D) 4 pole 440V 40 Amp.	Each	1	3282.50	3282.50
77	GUJ R & B ELE SOR-3-14-6-A.	Providing and erecting Pipe type earthing having 150 cms.long and 2.5 cms. dia. galvanised iron pipe with coupling and buch buried in specially prepared earth pit complete with necessary 8 SWG earth wire.	Each	5	434.30	2171.50
78	GUJ R & B ELE SOR-3-14-6-C.	For using salt and charcoal / coke as required for pipe type earthing.	Each	5	202.00	1010.00
79	GUJ R & B ELE SOR-10-5-1.	SITC of Vertical Air Termination Solid aluminium with Base- 10 mm dia and 1000 mm long. Air Termination Base tested for conditioning, Ageing Test & Lightning impulse current withstand test: 100 kA of 10/350µs waveform in an accredited Third party laboratory as per 6.3 & 6.4 of IEC 62561-1 2017 protocol with MAST 34mm dia 3000 mm long- Cold Galvanized	Each	4	11110.00	44440.00
80	GUJ R & B ELE SOR-10-5-2.	SITC of 8 mm dia solid Aluminium Conductor for roof top mesh grid and tested as per IEC 62561- 2 conducted in the Govt. accredited thirty party laboratory to meet the requirement of IS/IEC 62305 with Required Accessories - Aluminium Holding clamp at every 1 mtr distance, Aluminium/SS cross splicer at every crossing of Alu. conductor, Expansion piece	Mtr.	520	353.50	183820.00

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		with connectors at every 20 mtr distance, Aluminium straight Splicer to connect conductors. All Accessories should be tested as per IEC 62561-1 2018 Cl. 6.3 for conditioning & Ageing Test & 6.4 for Lightning impulse current withstand test: 100 kA of 10/350µs waveform(Ageing & Electrical test) conducted in a sequence manner & tested in the Govt. accredited Third party laboratory to meet the requirements of IS/IEC 6230				
81	GUJ R & B ELE SOR-10-5-4.	SITC of Galvanized Steel Flat 25x6 mm thickness from earth electrode directly in ground as required. Zinc coating: 500 g/m square (Approx:70 micron coating) tested and used exclusively for lightning protection earthing system and ring equipotential bonding.	Mtr.	400	181.80	72720.00
82	GUJ R & B ELE SOR-10-5-5.	SITC of 14.2 mm dia 3 mtr long Earth electrode of High tensile steel electrode with 250 micron copper bonding & 1 bag of Carbon fill Based environment friendly backfill tested as per IEC 62561-7 in NABL accredited Laboratory and suitable stainless Steel double sided clamp. Eco Friendly rust proof heavy duty weather proof Polyethylene Earth Pit Chamber with following dimensions :254 mm dia (top), 330 mm dia (bottom) & 260 mm (height).	Each	4	7070.00	28280.00
83	GUJ R & B ELE SOR-8-16 7.	Supplying, installing, testing & commissioning of SOLAR WATER heating system as per prevailing IS code comprising of Solar flat locket collector, stainless steel hot water storage isolated tank with S.S. heat exchanger, absorber made of copper sheet & copper tube of following capacity in liter / day (LPD) with "B" size aluminium box collector with appropriate capacity electrical backup arrangement (Excluding inlet & outlet pipe lines)				
		(E) Capacity of 1000 LPD	Each	2	178770.00	357540.00
84	GUJ R & B ELE SOR-8-16 8.	Supplying & erecting resin bonded flap rock wool / glass wool with conductivity valve 1.67 sq.mm per watt & to with stand the temp. to 100 degree centigrade C thickness 50mm with G I pipe of following size dia "B" class as per IS:1239. The plastic sheet to be used as covering of glass wool. Al. cladding besides other materials like chicken mesh, 26 G Al. Sheet shall be used for cladding the insulation pipe.				
		(A) for 20 mm dia pipe	metre	220	363.60	79992.00
		(D) for 40 mm dia pipe	metre	112	626.20	70134.40
85	GUJ R &	Supplying & erecting 12mm composite pipe				

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<p>B ELE SOR-8-16 9.</p>	<p>manufactured from polythene material with destructed thermal expansion of 25×10^{-6} / degree kelvin (low expansion Co-efficient), resistant to freezing thermal conductivity 0.43 watt / (m degree kelvin) UV resistant suitable for continuous operating temperature of 95 degree centigrade & rated pressure of 6.9 kg / sq.cms at 850 degree centigrade. The kitec pipe shall have chemical composition prepared as per ASTM F 1282-02 specifications (Pressure rating of 13.8 kg per sq.cms. & 11 KG per sq.cms at 60 degree) The pipe shall be duly jointed by comprising crimp fitted with internal as well as external end sealing arrangement.</p>				
	<p>(B) For 16 mm pipe</p>	<p>metre</p>	<p>120</p>	<p>247.45</p>	<p>29694.00</p>
	<p>(C) For 20 mm pipe</p>	<p>metre</p>	<p>100</p>	<p>343.40</p>	<p>34340.00</p>
	<p>TOTAL AMOUNT OF SCHEDULE-D</p>			<p>14687931.58</p>	

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Schedule- E

Schedule of Approximate quantities

Sr. No	Item No.	Description	UNIT	Total Quantity	Rate	Amount in Rs.
1	NS 1	Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), microprocessor based Controller, top discharge type condensing unit(s), with R410 A Refrigerant (Or Eco Friendly Green Gas if any), vibration isolators, with suitable foundation, MS Stand for Unit with necessary paint etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5. (Design should be got approval before execution from engineer in charge)	Per HP	190	30647.50	5823025.00
2	NS 2	Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System				0.00
		(E) 2 TR	Each	6	71374.75	428248.50
		(J) 4 TR	Each	4	79470.75	317883.00
3	NS 3	Supply, installation, testing and commissioning of following minimum capacity VRV High wall type Indoor unit equipped with washable				

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		synthetic media pre-filter, fan section with noise level maximum 60 dB @min 400 cfm /dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V ± 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature.				
		(A) 0.8 TR	Each	114	42561.50	4852011.00
		(D) 1.65 TR	Each	10	46724.50	467245.00
4	NS 4	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-0 tubular insulation/with Class-0 closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc with necessary refrigerant joint as required :				
		(A) 6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr.	450	448.50	201825.00
		(B) 9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr.	225	747.50	168187.50
		(C.) 12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr.	500	787.75	393875.00
		(D) 15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr.	500	862.50	431250.00
		(E) 19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr.	130	1086.75	141277.50
		(F) 22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr.	50	1345.50	67275.00
		(G) 25.4 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr.	50	1552.50	77625.00
		(H) 28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr.	170	2104.50	357765.00
		(I) 31.8 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	Mtr.	50	2254.00	112700.00
		(J) 34.9 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	Mtr.	50	2553.00	127650.00
		(K) 38.1 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	Mtr.	50	2691.00	134550.00
		(L) 41.27 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	Mtr.	80	2852.00	228160.00
5	NS 5	Supply installation testing commissioning	Mtr.	1800	224.25	403650.00

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		Shielded Shielded Control Cables for VRV System with necessary ISI mark Medium class rigid PVC pipes with necessary accessories with termination in machine and control equipments.. (A) 2C X 1.5 Sq mm Shielded Armoured				
6	NS 6	Supply, Installation, Testing and Commissioning of Central wired Remote Control System	Per HP	160	1644.50	263120.00
7	GUJ R & B ELE SOR-8-8-4.	Rigid UPVC drain pipe of 10 Kg/cm2. rating with 9 mm thick.nitrile rubber insulation.				0.00
		(B) 40 mm dia.	Mtr.	300	111.10	33330.00
		(D) 25 mm dia.	Mtr.	300	90.90	27270.00
		(E) 19 mm dia.	Mtr.	1300	70.70	91910.00
8	GUJ R & B ELE SOR-8-12-3.	Carry out RCC Core cutting- up to 100 mm dia./300mm thick Wall/beam/slab with providing PVC pipe of 3 mm thick inside and necessary finishing on both ends of wall .	Each	80	1565.50	125240.00
		TOTAL AMOUNT OF SCHEDULE-E				15275072.50

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Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Schedule- F

Schedule of Approximate quantities

Sr. No	Item No.	Description	UNIT	Qty	Rate	Amount in Rs.
1	GUJ R & B ELE SOR-13-1-S-C.	[1] GEAR LESS LIFT DRIVE (MRL) comprising of High Starting torque Lift 3 phase 440 V A. C. Permanent Magnet Synchronous motor of proper rating with high efficiency shall be used.[2] Micro processor based / PLC, ACVVVF, vector control drive with encoder feedback closed loop system shall be used for lift car and door operation which shall be full collective selective operation hall call demand response, UP/DOWN hall stops, Main, Up/ Down Contactor with overload and phase reversal relay and safety controls.				
		[3] Car with M S platform with bracings of adequate size and to sustain the impact load cabin + passenger with safety factor of fire for steel and side panels of Stainless steel of sheet of grade 304 duty. Car ceiling will be S.S. finishes with aesthetic appearance with LED ceiling lights. Car flooring shall be of anti skid PVC with choice of colour of engineer in charge. Car doors shall be of stainless steel grade 304, hairline finish with centre opening / telescopic automatic doors. Car panel will also be S.S. 304 finished with emergency stop device, mechanical door safety device, facility of auto/ attended mode. All car panel buttons and all floor switches must be with brail language as per lift act.				
		[4] All landing doors must be fire rated for 2 hour shall be fully automatic centre opening/ telescopic opening made of hairline finish steel grade of 304 with key holes and infrared curtains with Unlocking facility from outside [5] Appropriate battery operated emergency light in the car along with				

	<p>alarm switch shall be provided. Also, Emergency Light & Fan should start immediately without any Time Delay as soon as power fails.</p> <p>[6] Digital scrolling indicator system for up-down arrow along with floor position indicator shall be provided inside the car and at all floors.</p> <p>[7] Full height infra red curtain with multiple cross / crossing light beams shall be provided.[8] Automatic Rescue Device (ARD) shall be provided accordingly of passenger capacity with Manual Rescue Operation (Manual Cranking Facility).</p> <p>[9] Audio visual indication in the lift car showing over loading shall be provided such that doors kept open till excess load is removed.</p>				
	<p>[10] Spring buffers/PU Buffers shall be provided.[11] Car fan as per passenger capacity with automatic sleep timer shall be provided.[12] Voice annunciator with suitable music shall be provided in lift car. [13] Self diagnostics system for operational and safety parameters shall be provided in control panel.[14] Mechanical over speed governor with governor calibration as per actual site parameters and submission of calibration certificate submission, door key holes in the floor doors, fireman switch shall be provided.[15] Lift machine hoisting arrangement in the lift machine room and monkey ladder for lift pit should be provided by the lift agency, along with the other steel structure works, foundations for the machine etc...[16] In the hoist way fascia plate shall be provided without any extra cost, where ever required as / if directed by engineer in charge.</p>				
	<p>[17] Permanent wiring with necessary safety devices like RCCB in all circuit, Over Voltage Under Voltage protection and THD eliminator in circuit for lift machine room and lift well with proper numbers of light points, with fixtures, exhaust fan and plug points shall be provided by the agency. Only 3 phase</p>				

	<p>Power Supply shall be made available by department in lift machine room. Necessary Earthing as per Lift Act/Rules shall be arranged by Lift Agency.</p> <p>[18] Any civil/ electrical works for additional and alteration in lift shaft and machine room related to erection of lift shall be made by lift agency without any extra cost. (granite/marble fixing around all landing door openings are not in lift agency's scope.)</p> <p>[19] Agency has to provide all working drawings and documents and liaison services for obtaining all necessary permission from lift inspector and other authorities. [20] acrylic transparent licence/display A4 size holder in lift car</p>				
	<p>[20A] As per statutory requirement of Govt. Of Gujarat lift & escalator act 2000, lift agency has to provide</p> <ol style="list-style-type: none"> 1. Car top safety barricade 2. Push & talk communication system. 3. Fireman's switch operation at Ground Floor. 4. carrying out third party lift inspection during/after lift erection and provide report by third party authorized by concern licensing authority 5. agency has to provide third party insurance upto completion of free maintenance period and submit the document for the same. 				
	<p>[21] Car Panel Operating Buttons with floor position indicator/buttons must be of Auto Glow type clearly visible when view from inside cabin. [22] For Physically Handicapped person Full Length Handrails of hairline finish steel grade of 304 should be provided at appropriate height on the Rear & Side Wall Panels in Lift Car.</p>				
	<p>(B) SPECIAL FEATURES DESCRIPTION OF LIFTS for PREMIUM category 1. Advanced control system dual 64 bit embedded microprocessor with CANBUS Serial Communication mode including Regenerative power efficient operation, on site programming facility, Anti nuisance, Pte-opening, BMS/RMS with necessary online real time monitoring system having</p>				

		necessary connectivity for remote monitoring & other suitable supporting hardware & software devices to fulfil the purpose. 2. Floor Indication LCD Display with call registration & brail mark with arrival gong and hall lantern & TFT Screen in the car with MP3 Voice Announcer. 3. CAR Panel should be Scratch resistive SS Moonrock finish / Hair Line / Honeycomb for car and all Doors, All landing doors must have fire rating up to 2 hours and car door must have multi-level crisscross beam door protection. 4. To & fro communication system & wiring (i.e. car , control room & guard room) and Each elevator are equipped with remote monitoring system.agency has to provide mobile app and user id and password for monitoring				
	GUJ R & B ELE SOR-13-1-C.	4/5/6 Passengers, Ground plus 3 upper floors with Rated Speed of 1.0 m/sec., (C) With General PLUS ADDITIONAL SPECIAL FEATURES attached herewith. Prem. Cat.	Each	1	1619060.30	1619060.30
	GUJ R & B ELE SOR-13-1-AQ.	15/16 Passengers, Ground plus 3 upper floor with Rated Speed of 1.0 m/sec., (C) With General PLUS ADDITIONAL SPECIAL FEATURES attached herewith. Prem. Cat.	Each	1	2486690.70	2486690.70
		TOTAL AMOUNT OF SCHEDULE-F			4105751.00	

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Schedule- G

Schedule of Approximate quantities

Sr. No	Item No.	Description	UNIT	Qty	Rate	Amount in Rs.
1	GUJ R & B ELE SOR-10-1-3.	Providing, installing & commissioning & getting Plan Approval as well as NOC from Electrical Inspector for draw out type 11 KV indoor extensible type totally enclosed, single busher floor mounting metal clad 400A. vacuum tube circuit breaker confirming to IS: 2516 (Part- I & 11, Sec.1) 'for use on 11 KV, 3 phase, 50 c/s. unearthed A.C. supply system having breaking / rupturing capacity of 350 MVA complete with spring operated mechanism, mechanically ON-OFF and spring mechanism charged, discharged indicators, ON-OFF mechanical push button, operation counters necessary auxiliary switches, closing shunt trip, air insulated busbar chamber having heat shrinkable PVC sleeves, mechanical interlocks safety shutters, isolating plugs and a VCB trolley with three vacuum interrupters with epoxy support insulators and self aligning finger type isolating contacts. The breaker shall be Manual cum motorised mechanism with following accessories.				
		1. 144 mm. square flush mounting type digital multifunctional meter with communication facility ; 2. Power Factor Meter One No ; 3. Double core current transformer cast resin type having ratio 200 to 50/1 core for metering & second core for protection having required class of accuracy. ; 4. Instantaneous under voltage relay - & Temperature rise Tripping Relay ; 5. Electrical closing coil & short trip coil operating on 110V. D.C.- ; 6. Auxiliary relay for anti pumping device ; 7. Three phase Three limb Drawout type feeder connected & output of 200 VA cast resin insulated potential transformer having ratio 12000V./110V. and 200 VA Burdon with 0.5 accuracy. ; 8. Common Alarm bell operating on 110V A.C.- One No. ; 9. Digital KWH Meter - One No. ; 10. Cable boxes suitable up to 11 KV 3core 150 sq.mm XLPE cable. ; 11. 230V. A.C. to 110V. D.C. power pack for closing & tripping circuit common.. (for each VCB) ; 12. Breaker ON-OFF, Auto trip and spring charged indicators ; 13. Phase indicating & panel illumination lamps with plug socket ;	Each	1	563580.00	563580.00

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		14.Numerical Communicable type non directional O/C & E/F Relay with a setting of 5-250% both in O/C & E/F. ; complete with necessary interconnection with air insulated high grade copper busbar {Breaker Testing scope include Closing Time, Opening Time, VCB Hi-Pot test at Site}{ Relay Testing Scope Include testing of all protection by three phase testing kit at site }(VCB Trolley is to be provided)				
2	GUJ R & B ELE SOR-10-1-4.	Providing, erecting, testing commissioning & getting Plan Approval as well as NOC from Electrical Inspector for extensible H.T panel comprising of one 400A. H.T. VCB incoming & Two outgoing 400 A Drawout type VCB confirming as per I.S. for use on 11 KV, 3 phase, 50 c/s. unearthed A.C. supply system having breaking rupturing capacity of 350 MVA complete with spring operated mechanism, mechanically & automatic ON-OFF and spring mechanism charged, discharged indicators, ON-OFF mechanical push button, operation counter necessary auxiliary switches, closing shunt trip, air insulated busbar chamber having heat shrinkable PVC sleeves, mechanical interlocks safety shutters, isolating plugs and a VCB trolley with three vacuum interrupters with epoxy support insulators and self aligning finger type isolating contacts. The breaker shall be Manual cum motorised mechanism & auto spring charge with TNC switch closing with following accessories.				
		1. 144 mm. square flush mounting type digital multifunctional meter with communication facility - Three sets. ; 2. Power Factor Meter One No ; 3. Double core current transformer cast resin type having ratio 200 to 50/1 core for metering & second core for protection having required class of accuracy - Three Sets . ; 4. Instantaneous under voltage relay - & Temperature rise Tripping Relay ; 5. Electrical closing coil & short trip coil operating on 110V. D.C.- - Three Sets ; 6. Auxiliary relay for anti pumping device ; 7. Three phase Three limb Drawout type feeder connected & output of 200 VA cast resin insulated potential transformer having ratio 12000V./110V. and 200 VA Burdon with 0.5 accuracy. - One No. ; 8. Common Alarm bell operating on 110V A.C.- One No. ; 9.Digital KWH Meter - One No. ; 10. Cable boxes suitable up to 11 KV 3core 150 sq.mm XLPE cable - Three Nos.. ; 11. 230V. A.C. to 110V. D.C. power pack for	Each	1	1568025.00	1568025.00

		<p>closing & tripping circuit common. ; 12.Breaker ON-OFF, Auto trip and spring charged indicators - Three Sets. ; 13.Phase indicating & panel illumination lamps with plug socket - Three Sets. ; 14.Numerical Communicable type non directional O/C & E/F Relay with a setting of 5-250% both in O/C & E/F - Three Sets.. ; complete with necessary interconnection with air insulated high grade copper busbar {Breaker Testing scope include Closing Time, Opening Time, VCB Hi-Pot test at Site}{ Relay Testing Scope Include testing of all protection by three phase testing kit at site }(VCB Trolley is to be provided)</p>				
3	M.R.-RA-1	<p>Providing, erecting, testing & commissioning approved make oil immersed ONAN cooled, double wound, core type indoor / outdoor copper wound 11KV/ 433V step down transformer of following capacities operating on 3 phase, 50 Hz 4 wire & neutral earthed system continuously rated for a full temperature rise in oil not exceeding 45 Deg.C.at maximum ambient temp. of 50 Deg. C. complete with necessary radiator first filling of new transformer oil & standard fitting as below complying with IS 1180:2022 standards with energy efficiency level 1 , Off load tap changing range steps +2.5% to -5% on H.V for variation should be provided. The H.V. shall be connected Delta & Secondary with star connection. The transformer should have cable-end boxes on H.T. side suitable for up to 3 core 150 sq.mm. XLPE cable & on L.T. side suitable for bus duct or cables as per requirement complete with test certificates from manufacturers</p>				
		<p>1. Oil conservator with filling Hole & Cap - One No. ; 2. Thermometer pocket with 6" dial type thermometer switch alarm & trip contacts- Two nos. ; 3. Silica-gel breather with charge- One No. ; 4. Plain oil level gauge - One No. ; 5. Drain / Sampling / Filter valve- One No. ; 6. Top Filter Valve - One No. ; 7. Explosion vent with Diaphragm - One No. ; 8. Rating & Diagram plate - One No. ; 9. Additional neutral bushing for earthing - One No. ; 10. Bi directional Roller - Four Nos. ; 11. Earthing terminals - Two Nos. ; 12. Lifting lugs - Two Nos. ; 13. Air release plug. - One No. ; 14. Double float buchholz relay with Alarm and trip contacts. ; 15. Control cable as required from Transformer to VCB Panel is to be provided with necessary</p>	Each	2	2444635.50	4889271.00

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		connection to VCB relays for protection. (c) 500 KVA Max. allowable loses at 50 % of rated load is 1.510 KW and at full load is 4.3 KW				
4	GUJ R & B ELE SOR-10-2-1.	Providing and fixing printed instruction chart both in English and Gujarati and duly framed with front glasses, for treatment of person suffering from Electric shock with minimum 50" diagonally size.	Each	5	151.50	757.50
5	GUJ R & B ELE SOR-10-2-2.	Providing pair of rubber hand gloves suitable for working on 11 KV/22 KV supply.	Each	4	252.50	1010.00
6	GUJ R & B ELE SOR-10-2-3.	Supplying rubber matting of following thickness as per IS:15652/IEC 61111 (c)12mm	Sq. Mtr.	13	3636.00	47268.00
7	GUJ R & B ELE SOR-10-2-4.	Supplying stand first AID box with antiseptic cream, medicine for use on wounds due burn, crepe bandage, gauge bandage, medicated ready to use bandage (Band-aid) adhesive tape for medicinal user, Scissors, anti-septic solution (Savlon or similar) etc. (All above contents shall be of standard makes)	Each	4	353.50	1414.00
8	GUJ R & B ELE SOR-10-2-5.	Supplying FIRE bucket round bottom of 9 litres capacity made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and Red out side with FIRE mark, filled with dry-sand and kept on existing stand provided or hung on wall hook.	Each	6	252.50	1515.00
9	GUJ R & B ELE SOR-10-2-6.	Supplying and erecting floor mounting stand for keeping four nos. of FIRE buckets comprising 1500 mm in length, 900 mm height frame made out of 30mm X30 mm X 4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of approved enamelled silver paint.	Each	3	1111.00	3333.00
10	GUJ R & B ELE SOR-10-2-14.	Providing and erecting ISI Marked 3core 120 Sq.mm XLPE insulated 11 KV armoured cable Aluminium conductor IS-7098 to be laid on wall with clamps or in provided cable trench / pipe approved manner as directed.	Mtr.	1600	1818.00	2908800.00
11	DSR-E & M-8.1	Laying of One number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc as required.				
	DSR-E & M-8.1.1	Up to 120 sq. mm.	Mtr.	750	525.00	393750.00

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12	DSR-E & M-8.2	Laying of One number additional PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation , sand cushioning, protective covering and refilling the trench etc as required.				
	DSR-E & M-8.2.1	Up to 120 sq. mm.	Mtr.	750	362.00	271500.00
13	DSR-E & M-8.4	Laying of One number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.				
	DSR-E & M-8.4.1	Up to 120 sq. mm.	Mtr.	200	63.00	12600.00
14	DSR-E & M-10.4	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core , XLPE aluminium conductor cable of 11 grade as required :				
	DSR-E & M-10.4.2	120 sq. mm.	Each	8	14968.00	119744.00
15	GUJ R & B ELE SOR-10-2-28.	Supplying and erecting Right angle / straight boot made from Synthetic rubber and suitable for covering of cable up to 400 sq mm & should be installed directly on DIN Bushing on HT VCB or Transformer without bending of boot.	Each	8	1818.00	14544.00
16	GUJ R & B ELE SOR-10-4-11.	Design, Supplying, installing, testing of factory fabricated ready made Three phase APFC Panel Cubical Panel fabrication should be type tested as per IEC 61921, 61439:1&2 Capacitor Duty Contactor for switching as per following Steps Incomer Switch of MCCB type Icu=Ics=50KA at 400/440 Volts, with OC, SC, internal earth fault protection Incomer Switch of MCCB type Icu=Ics=50KA at 400/440 Volts, with OC, SC, internal earth fault protection,Copper tinned insulated Busbar,Cubical panel should be indoor type with IP 43 and IK 10,Metalized polypropylene film tye3-phase 550Volt Capacitor,De tuning Reactor for each capacitor,Panel having Short Circuit and Overload protection,Each step Capacitor having suitable MCB with Sc, OL, internal earth fault relay,Each stage having Stage Contactor (Capacitor load rating),PF regulator master controller having suitable steps with LCD display, Rs 485 Communication port, Indication LED Lamps	Each	2	168670.00	337340.00

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		for main incomer and ON-OFF for each capacitor bank,MS Chanel for Floor mounting, Cable entry as per site situation,Cooling fans for panel (A)50KVAR				
17	GUJ R & B ELE SOR-3-16-4-A.	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	Kg.	500	90.90	45450.00
18	DSR-E & M-2.22	Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	4	292.00	1168.00
19	DSR-E & M-4.1	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.				
	DSR-E & M-4.1.4	300 mm width x 50 mm depth x 1.6 mm thickness	Meter	40	777.00	31080.00
20	DSR-E & M-5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	8	7472.00	59776.00
21	DSR-E & M-5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	4	13838.00	55352.00
22	DSR-E & M-5.15	Providing and fixing 25 mm X 5 mm G.1. strip on surface or in recess for connections etc. as required.	Meter	120	244.00	29280.00
23	DSR-E & M-5.20	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	Meter	60	2113.00	126780.00
24	GUJ R & B ELE SOR-10-4-2.	Supplying and erecting, commissioning and testing of Diesel Generating set confirming to IS: 4722:1968 & BS:5514 having continuous rating, 3 phase, 415 volts, 50 cycles A.C. supply comprising of a totally enclosed air/water cooled diesel engine with multi-				

		cylinders developing suitable BHP not less than following capacity at 1500 RPM with 10% overload for one hour in 24 hours with standard accessories like fly wheel, lubricating oil cooler, "A" class governor, heavy duty fuel wheel and lubricating oil filter, oil bath air filter, lubricating oil pressure gauge, end exhaust manifold, standard set of tools with adjustable spanners, screw drivers, cylinder head to cover, joint cylinder head to exhaust, element lube oil filter, 12 / 24 volts electric starting equipment complete with standard heavy duty battery, dynamo, cut-outs, ammeter, necessary wiring, pressure gauge, starter etc and heavy duty Residential type exhaust silencer and vertical hot air duct both logged with asbestos rope, save oil trays, exhaust piping of required length, standard wall/floor mounted fuel with level indicator and piping and drip proof alternator,				
		self excited, self regulated, screen protected, with excitation system, capable of delivering the rated system output at 415 volts, 3 phase, 0.8 PF, 50 Hz, 4 wire, running at 1500 RPM, conforming to IS-4722- 1968 with voltage regulation +/- 5% of rated voltage from no load to full load. Both the engine and alternator fitted on a common fabricated steel base plate with ant vibration mounting engine and alternator both connected to each other by flexible flange coupling and with floor/wall mounted control panel box comprising of voltmeter ammeter, selector switches, ACB / MCCB / MCB of adequate capacity,				
		indicator lamps duly wired with HRC fuses. The alternator & control panel shall be connected with provided suitable capacity armoured cable and complete with Acoustic enclosure (canopy) made out of 16 SWG CRCA Sheet, sound absorbing material Rockwool of 64 density & 100 mm thick conforming to IS:8183 / PU Foam of 40 Density - at least 40 mm. The resin bonded rockwool covered from inside the canopy by perforated sheet with 3/4 mm holes, sound level not more than 75 dB at a distance of 1 mtr, as per PVCT norms. Erection, commissioning and satisfactory testing as per requirement with first filling of fuel, oil, etc. with guarantee / Warrantee of complete system for Two years. & with obtaining all necessary certificate from Electrical Inspector. The Capacity and Ratings of DG sets are as below . (V) Continuous rating of 500 KVA ,BHP not	Each	1	3834414.50	3834414.50

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		less than 600 BHP				
25	GUJ R & B ELE SOR-10-4-3.	Providing & erecting approved make ATS panel suitable for following size of 3 phase, 415 V., 50 cycles, A.C. diesel generating set complete of scope as detailed below: 1) Power module: Motorised Changeover switch with ATS controller, Auxiliary contactor with NO & NC contacts with Automatic Battery Charger, indicating lamps for Generator ON, Mains ON, Load and suitable control terminals and power terminals with neutral earthing studs. (H) ATS Panel for 320 KVA/ 380 / 400 /500 KVA3 ph DG Set	Each	1	212100.00	212100.00
26	GUJ R & B ELE SOR-14.1.1	Supply, Installation, Testing & Commissioning of following size of Grid Tied Solar Power Plant with Solar Panels (ALMM approved): Frame Material : Anodized Aluminium alloy Frame With Twin Wall Profile, Front Cover : High Transmission Low-Iron Tempered Glass (AR Coated), High efficiency and positive power tolerance Pmax: 0/+5, Module Efficiency should be approx. 18%-21%, Normal operating temperature 45°C, Junction Box with Waterproof IP67 & MC4 Compatible and Enclosed with Bypass diodes, 100% Electroluminescence test to ensure error free Modules, Thep. temp. co-efficient of the PV module shall equal or better than - 0.45%/degree C. Solar PV modules of minimum fill factor 75% to be used. Unit Production:- 4 to 5 Unit /kw /day (Actual)(1Year Avg) With 10 year Product warranty and 25 year Linear Power Warranty., Solar Inverter: MPPT Range: 80-1000 V, Max efficiency: 97.5% - 98.9%, O/p Frequency: 50/60Hz, Operating Altitude (m) ≤4000, O/p Power Factor: ~1, O/P THDi: <3%, Operating Temperature Range: -25~60°C, Anti-islanding Protection:				
		Integrated, Input Reverse Polarity Protection Integrated, Insulation Resistor Detection Integrated, Residual Current Monitoring Unit Integrated, Output Over Current Protection Integrated, Output Short Circuit Protection Integrated, Output Over Voltage Protection Integrated, Protection Degree: IP65, User Interface LCD & APP,Datalogger & Communication: GPRS / Wi-Fi, Module Mounting Structure: Seamless Box Pipe / 'C' Channel of suitable size for rooftop solar installations with good stability against wind & weight load., Hot Dipped Galvanized steel coils. suitable arrangement for base plate for				

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		foundation , solar panel mounting, the structure should be suitable for carry the load of solar panel, wiring, sprinkler system etc. with necessary foundation work/wall mount, j bolt, anchor fastener etc. the nut bolt used for installation of structure should be (SS 304) quality. and Balane of System with necessary Swithgears (Suitabel size and protection of ACDB & DCDB), inter connecting wiring, earthing system, lightening arrester system, all liasoning work with various gov. department like state nodal agency,DISCOM & CEIG is included in agency scope				
		(Excluding GEDA Application fees, Solar connectivity Charges, Meter connectivity Charges, Meter testing Charges.) (D) Grid Tied Solar Power System: 26 - 50 kW (3 - phase)	PER KW	50	49742.50	2487125.00
		TOTAL AMOUNT OF SCHEDULE-G			18016977.00	

Signature of tenderer (s)
Date:

Name of work: - Construction of Running Room at New Palanpur Junction under CGM, DFCCIL, Ahmedabad Unit.

Schedule- H

Schedule of Approximate quantities

Sr. No	Item No.	Description	UNIT	Total Quantity	Rate	Amount in Rs.
1	GUJ R & B ELE SOR-7-1-5-F.	Providing and erecting Small EPABX System with In Built 4 Port Voice Mail [F] No. Extension - 128 , No. of Junction -24 , No. of expandable ports -512 , Operators Console -01 Compatible - ISDN & Networking	Each	1	303778.71	303778.71
2	GUJ R & B ELE SOR-7-1-2-A.	Providing and erecting add on Digital line card suitable for existing system of following ports (a) 8 port	Each	1	17170.00	17170.00
3	GUJ R & B ELE SOR-7-1-3.	Providing and erecting Standard Push button telephone (DTMF) Phones	Each	149	555.50	82769.50
4	GUJ R & B ELE SOR-1-4-9.	Providing & erecting main Distribution (MDF) indoor type, back mounted frame as per DoT standard approved with krone strips				
		(c) Suitable for 50 pair	Each	4	1979.60	7918.40
		(e) Suitable for 200 pair	Each	1	7244.73	7244.73
5	GUJ R & B ELE SOR-1-4-7-2.	Supplying & erecting approved make Telephone Cable electrolytic copper conductor PE insulation twisted in two pairs, & wrapped with FRLS PVC tape & sheathed with FRLS PVC or HFFR outer Jacket suitable for telephone wiring & confirming to C-DOT erected in existing pipe. of following size of conductors & nos.of pairs. With necessary connections. (a) Conductor size 0.5 mm (b) Armoured [Jelly Filled] (2) Twenty Pairs	MTR	270	224.22	60539.40
6	GUJ R & B ELE SOR-1-4-8-E	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [E] CAT - 6 shielded	MTR	720	105.04	75628.80
7	DSR-E & M-1.53	Supplying and drawing of UTP 4 Pair CAT 6 LAN cable in the existing surface/ recessed steel/ PVC conduit as required.				
	DSR-E & M-	1 run of cable	Meter	3555	57.00	202635.00

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	1.53.1					
	DSR-E & M-1.53.2	2 run of cable	Meter	1000	96.00	96000.00
	DSR-E & M-1.53.3	3 run of cable	Meter	800	134.00	107200.00
8	DSR-E & M-1.21	Supplying and fixing of following sizes of medium class PVC conduit				
	DSR-E & M-1.21.1	20 mm	Meter	1500	128.00	192000.00
	DSR-E & M-1.21.2	25 mm	Meter	3000	145.00	435000.00
9	GUJ R & B ELE SOR-1-3-10-5.	Supplying under floor pregalvanised corrosion proof rectangular sheet steel cable trunking of 1.6 mm thick having with stand point load up to 1.33 Ton & free from seepage of concrete of screed water with all accessories, Junction Box, Joints as required and demanded by engineer-in-charge and laying/erecting as per OEM guidelines and as per instruction of engineer incharge having following size of dimensions and No of compartments (W x D x T) Cat-III [5] 250mm x 25mm x 1.6 mm with Three Compartments	Meter	380	1175.64	446743.20
10	GUJ R & B ELE SOR-7-20-3.	Supplying and erecting approved make online Un-interruptible Power Supply system with IGBT Based rectifier and Inverter & sealed maintenance free batteries. Single phase Input and Single Phase output with Inbuilt Isolation transformer with 0.8 load power factor with battery, over under voltage output with over load & short circuit protection equipment. The system housed in CRC sheet duly powder coated paint with following capacity & with Following size of batteries for 30 Min Backup (Minimum 2688 VAh) 3 KVA UPS with 28 AH, 8 Nos. Battery Certification : BIS (Including Five year free maintenance with guarantee)	Each	2	129276.97	258553.94
11	GUJ R & B ELE SOR-7-21-1.	Supply, Installation, Testing and Commissioning of 4MP Fixed Lens Dome Type Camera, H.265 4MP IR Vandal Proof Dome N/W Camera, 2.8mm/3.6mm, 30M IR, Micro SD, DC12V/PoE, IP67/IK10, Basic IVA, 1 / 2.7" CMOS, 2560 x 1440, 0.01 Lux,	Each	18	9965.67	179382.06

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		F1.2, AGC ON; Defog, True day/night, Digital WDR, 3D DNR, HLC & BLC, Triple streams, Smart codec by ROI, Cyber Security, Basic intelligent video analytics, NDAA Compliance, UL, CE, FCC Certified (Including Five year free maintenance with guarantee)				
12	GUJ R & B ELE SOR-7-21-2.	Supply, Installation, Testing and Comissioning of 4MP Fixed Lens Bullet Type Camera, H.265 4MP IR Bullet N/W Camera, 3.6mm / 6mm, 50M, Micro SD, DC12V/PoE, IP67/IK10, Basic IVA, 4MP resolution (2560 × 1440), True day/night, Digital WDR, 3D DNR, HLC & BLC, Triple streams, Smart codec by ROI, Cyber Security Basic intelligent video analytics, NDAA Compliance, UL, CE, FCC Certified (Including Five year free maintenance with guarantee)	Each	10	9965.67	99656.70
13	GUJ R & B ELE SOR-7-21-6.	Supply, Installation, Testing and Comissioning of 4MP Network IP PTZ Camera, Up to 2560×1440 resolution, 25/30 FPS, 32x Optical Zoom, 16x Digital zoom, Support H.265+/H.265 video compression, Up to 200 m IR distance, Triple Streams, 1/1.8" CMOS, WDR, HLC, BLC, 3D DNR, EIS, WDR@120dB, Smart Event, Face Capture, Defog, Regional Exposure, Regional Focus, Rapid Focus, Privacy Mask, SD Card 256GB support, IP66 & IK10, Smart IVA, CE, FCC, UL, WEEE, REACH certified, Cyber Security, Lightening protection, Alarm I/O, Opp Temp - 30°C to 60 °C, ONVIF S,G,T (Including Five year free maintenance with guarantee)	Each	2	252076.81	504153.62
14	GUJ R & B ELE SOR-7-21-12.	Supply, Installation, Testing and Comissioning of 32 Channel Network Video Recorder (NVR), Dual OS design, HDD Hot Swap with RAID support, N+1 hot spare configuration, Support 16CH@2MP, H.265/H.264 Video Compression, HDMI, VGA output, upto 8 SATA interface each with max 10 TB support and 1 eSATA, 16-ch synchronous playback at up to 1080p resolution, Gigabit Ethernet network interfaces, bandwidth 320 mbps, CE FCC, BIS, Operating Temp -10 deg to 50 deg C, USB and serial Interface, RAID supported (Including Five year free maintenance with guarantee)	Each	1	265385.58	265385.58

15	GUJ R & B ELE SOR-7-21-20.	Supply, Installation, Testing and Comissioning of Enterprise VMS Software, Multi-level mapping to increase situational awareness, Enterprise Manager Included For Critical System Health Monitoring , Powerful Search Capabilities In An Intuitive Interface, Videopush To Share Critical Video Across The Enterprise, Integrated Web Panels To Stay Up-To-Date With Breaking News Events, Compile Detailed Investigations With Bookmarks, Event Data And Video Files , Custom User Groups To Simplify Assigning Access To Specific Cameras And Servers, Windows & Linux Server Compatibility, Free Windows, Linux & Mac Clients, Browser-Based Viewing Of Live/Stored Events, Compatible With Free Exacq Mobile App, Easy Connect To Compatible IP Cameras, Fisheye/Panoramic Lens Support (Live & Recorded), Client Bandwidth Throttling, Pre/Post Alarm Recording, Soft Triggers, Time-Lapse Recording, Extended Storage, Archiving, Per-Camera Min/Max Retention, Audit Trail, Custom User Groups, Third-Party Integrations, Email Notification For System Health Events, Exacqvision Surveillance Keyboard Support, NVR Failover, Enterprise Camera Management,				
		Health Dashboard Of Exacqvision NVRs And Attached Cameras, Advanced User Role Management, Dynamic Client Connection Management, Scheduled Configuration Backups And Recoveries, Scheduled Version Updates, LDAP/Active Directory, Compatible With Exacqvision Virtual Appliance, View Cameras On Multiple Monitors, PTZ Control & Pre-sets, Digital PTZ Control & Pre-sets, Motion & Alarm Indication, Event Linking On Discrete Inputs, Event Linking On Video, Serial & Health Events, Event-Driven & Time-Lapse Video Switching, Camera Groups, Multi-Streaming, Two-Way Audio, Maps, Video push Video Wall, Hierarchical Maps For Fast Camera Navigation, Camera Inspection Workflow, Exact replay Instant Replay, Thumbnail & Timeline Event Search, POS & ATM Serial Text Search, Multi-Camera	Each	2	20438.36	40876.72

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		Playback, Export To .AVI, .MOV, .MP4 Or .EXE File, Bookmarking, Multiple Camera Export, Case Management. The proposed VMS should support integrated Solution of CCTV + NVR, Access Control and Intrusion Detection from the same OEM. (Including Five year free maintenance with guarantee)				
16	M.R.-RA-8	Supply, Installation, testing & Commissioning of 10TB Surveillance Hard disk	Each	8	27525.00	220200.00
17	M.R.-RA-9	Supply & Installation of wifi 6 Dual Band Router, speed upto 1.8 Gbps. (Netgear / Avaya/ Molex/Dax / D-link make only)	Each	4	20100.00	80400.00
18	GUJ R & B ELE SOR-7-12-1.	SITC of company fabricated patch cords shall conform to Cat- 6 & conductor shall be stranded for better flexibility Shall support network line speeds up to 1 Gbps Shall have RJ-45 jacks. (A) 1 Mtr	Each	56	227.25	12726.00
19	GUJ R & B ELE SOR-7-12-1.	SITC of company fabricated patch cords shall conform to Cat- 6 & conductor shall be stranded for better flexibility Shall support network line speeds up to 1 Gbps Shall have RJ-45 jacks. (C) 3 Mtr	Each	10	434.30	4343.00
20	GUJ R & B ELE SOR-7-12-3.	SITC of Jack Panel, fully loaded with 24 nos. UTP ports for PCB based IO Jacks (RJ45, TIA-568C Category-6, Installation and Termination of all 24 nos. Category-6 UTP, unloaded with individually replaceable 24 nos. Category-6 I/O Jacks complying with TIA-568.C.2, as per given jack specification Shall be suitable for loading unshielded & shielded jacks for different category systems (CAT 6 & CAT 6A)	Each	3	7878.00	23634.00
21	GUJ R & B ELE SOR-7-12-4.	SITC of Faceplate for RJ45 Port with ABS /Metal Body square plate, dimension as per commercially available modular office furniture. Shall Have Icons, Shutter, Screw Cover, Label Cover, Jack holder with necessary connections				0.00
		(B) 2-port	Each	10	186.85	1868.50
22	GUJ R & B ELE SOR-7-12-6.	SITC of 24 x 10/100/1000BASE-T ports 4 x Gigabit RJ45/SFP Combo ports Advanced L2 switching and security features L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface	Each	1	27530.58	27530.58
23	GUJ R & B ELE	SITC of 8 x 10/100/1000BASE-T PoE ports 2 x Gigabit SFP ports Advanced L2 switching and security	Each	4	32893.68	131574.72

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	SOR-7-12-8.	features L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface 65W PoE budget				
24	GUJ R & B ELE SOR-7-12-16-D.	Providing & Erecting Network rack with following capacity with Necessary cooling fan, Cable manager,6A PDU, equipment rack with necessary mounting accessories. (D) 15 U	Each	2	22725.00	45450.00
25	GUJ R & B ELE SOR-7-15-18.	SITC of SCREEN SIZE 105.41 cm diagonal (42" INCH), RESOLUTION FHD (1920*1080), USB INPUT (2.0 SUPPORT) 2*Side(USB2.0), HDMI INPUT 2*Side(HDMI 1.4), USB DEVICE SUPPORT USB Supported HDD, HOTEL MODE Yes, Basic, BLUETOOTH Yes (Ver. 4.1), WIFI TYPE(STANDARD) 802.11a/b/g/n 2.4G 2T2R, Built-in, WIFI BAND TYPE 2.4GHz, OS & VERSION INFO Android 'P' - 9.0, MEMORY FLASH 8GB EMMC, RAM 1.5.0GB , DDR3 2133Mhz. (Including Five year free maintenance with guarantee)	Each	3	93081.60	279244.80
26		Misc. DSR 2021 items for successful execution of work				1000000.00
		TOTAL AMOUNT OF SCHEDULE-H			5209607.96	

END OF TENDER DOCUMENTS