



Tender No. PRYJE-EN-SIDING-DDU141-01

For

Name Of Work:- Construction of heavy duty CC road with modification of bridges, Goods shed office cum merchant room and labour shelter with appropriate lighting arrangement for smooth working of coal siding platform at DDU.

**E-TENDER DOCUMENT
FINANCIAL BID
(PACKET-B)**

Employer:

**DEDICATEDFREIGHTCORRIDORCORPORATIONOFINDIALIMITEDAG
OVERNMENTOFINDIA (Ministry of Railways) ENTERPRISE**

**Chief General Manager Prayagraj(East), 2nd Floor, OCC BUILDING, SUBEDARGANJ,
JHALWA, PRAYAGRAJ, UTTAR PRADESH-211011, India
Phone No. 0532-2287620, Email- omprakash@dfcc.co.in**

**CORPORATE OFFICE
DFCCIL, 5TH Floor, Supreme Court Metro Station Building Complex,
New Delhi-110001**



GENERAL INFORMATION/DATA SHEET

Tender Notice No.	PRYJE-EN-SIDING-DDU141-01 Dated: 28.03.2023
Name of the work	Construction of heavy duty CC road with modification of bridges, Goods shed office cum merchant room and labour shelter with appropriate lighting arrangement for smooth working of coal siding platform at DDU.
Employer	Chief General Manager(East) Prayagraj, 2nd Floor, OCC BUILDING, SUBEDARGANJ, JHALWA, PRAYAGRAJ, UTTAR PRADESH-211011, India Acting through: Om Prakash, IRSE Mobile: 0532-2278613 Email: omprakash@dfcc.co.in
Engineer	Employer/Employer's authorized Representative
Type of Tender	Open E-Tender (Single stage Two Packet)
Type of Contract	Works Contracts
Estimated Cost	<u>Rs. 40,12,31,507.74/- +(@18%GST Rs. 7,22,21,671.39/-)</u> (Rupees 47,34,53,180 Only).
Period of Contract/Completion Period	12 Month
Bid Security	Rs. 2517300/- ONLY The Bid Security shall be submitted in favour of DFCCIL in the form as detailed in Para 1.3.8 of Preamble & General Instructions to Tenderers (Part-I, Chapter-III).
Cost of Tender Document	Tender document can be downloaded from http://www.ireps.gov . Free of Cost.
E-tendering website	http://www.ireps.gov.in For any help, please contact IREPS Helpdesk at 011- 23761525
Date of uploading of NIT & Bid documents(online publishing date)	On Date 05.04.2023at 15-00 Hrs
Date of document download/Sale (Online)	From Date 06.04.2023 from 10.00Hrs
Issue of Corrigendum, if any	Up to three days prior to the last date of submission of Bid (on websites http://www.ireps.gov.in and www.dfccil.com)

Pre-Bid Meeting	Not applicable
Date & Time of Submission of Tender	On or before date 27.04.2023 and time up to 15:00 hrs
Date and Time of Opening of Tender (Technical bids -Packet A) online as well as tender box	Date 27.04.2023 at 15.00hrs Opening date of Financial Bid (Packet-B) will be notified later
Validity of offer	120 days from the date of opening of the Technical Bid of the Tender
Security Deposit	5% of Contract value
Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 21 (twenty-one) days from the date of issue of Letter of Acceptance (LOA), amounting to 3% of the contract value in the form as given in clause 16.4 of GCC
Defect Liability Period	12 Months

SUMMARY OF PRICES

Name of work:-Construction of heavy duty CC road with modification of bridges, Goods shed office cum merchant room and labour shelter with appropriate lighting arrangement for smooth working of coal siding platform at DDU.

Sl. No.	Description of works	DFCCL cost including GST in Rs	Rates to be quoted in figures & words (Clearly mention above / below / at par on updated DFCCIL Rate / cost given in column 4)
1.	2.	3.	4
1.	Execution of all works as per Schedule "A" Engineering Works	342274592.21 % age (in figures) (In words)
2.	Execution of all works as per Schedule "B" Supply of cement	38413676.52 % age (in figures) (In words)
3.	Execution of all works as per Schedule "C" Reinforcement work	83847020.33 % age (in figures) (In words)
4.	Execution of all works as per Schedule "D" Electrical work	8917890.07 % age (in figures) (In words)
	Grand Total (in Rs.):	473453379.13	

Notes:

- (i) The above prices are inclusive of all taxes, duties including GST etc.
- (ii) The Tenderer should quote single percentage above/ par/below for each schedule.
- (iii) If the uniform percentage quoted by the Tenderer does not clearly indicate whether the rates are above/at par/below the estimated rates then through sign convention it will be considered to be on plus side and evaluated accordingly.
- (iv) Rate of item payable to contractor shall be as per following example:-
For Schedule A (Updating factor is 1, since 1% is above the rates of DSR 2021), if the rate of any item of DSR 2021 Schedule A is "X" and
 - (a) If percentage quoted by the contractor is 5 % above (+5%), Rate payable to contractor = $(X) \times 1 \times 1.05$
 - (b) If percentage quoted by the contractor is 5 % below (-5%), Rate payable to contractor = $(X) \times 1 \times 0.95$
 - (c) If percentage quoted by the contractor is at par, Rate payable to contractor = $(X) \times 1 \times 1.0$

SCHEDULE OF PRICES & TOTAL PRICES

SCHEDULE - A						
S. No.	DSR 2021	Description	Unit	Quantity	DFCCIL rate including GST @18%	Amount
1	2.2	Earth work in rough excavation, banking excavated earth in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and lift upto 1.5 m : All kinds of soil	cum	30996.86	908.94	2,81,74,304.00
2	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) /. All kinds of soil 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. <i>All kinds of soil</i>	cum	9254.00	302.23	27,96,792.00
3	2.9.1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m 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 soils as directed, within a lead of 50 m. <i>Ordinary rock</i>	cum	15.00	551.56	8,273.00
4	2.10.1.1	Excavating trenches of required width for pipes, cables, etc including Pipes, cables etc, not exceeding 80 mm dia. 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 : Pipes, cables	mtr	3000.00	269.25	8,07,742.00

		etc, not exceeding 80 mm dia.				
5	2.10.1.2	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 All kinds of soil Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	mtr	3000.00	439.72	13,19,160.00
6	2.25	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.	cum	0.00	267.56	-
7	2.25a	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.	cum	6475.31	388.41	25,15,071.00
8	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. All kinds of soil	cum	1618.83	110.10	1,78,235.00
9	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	590.25	2277.04	13,44,023.00
10	2.35.3.1	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: <i>With Chlorpyrifos/Lindane E.C. 20% with 1% concentration</i>	sqm	342.50	269.88	92,434.00
11	2.37	Supply and stacking of Fly ash conforming to IRC- 58 at site, including carriage, loading , unloading & stacking up to any lead (measured stacks will be reduced by 20% for payment).	cum	13524.00	246.60	33,34,952.00

12	2.38	Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer -in-charge, including compacting each layer by rolling/ ramming and watering, all complete as per drawing and direction of Engineer -in - charge.	cum	11270.00	267.56	30,15,421.00
13	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.		0.00	0.00	-
14	4.20.1.2	All works upto plinth level Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	4539.81	8612.92	3,91,00,962.00
15	4.20.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum. All works upto plinth level	cum	141.07	9060.43	12,78,119.00
16	4.20.2.4	Concrete of M25 grade with minimum cement content of 300 kg /cum. All works above plinth and upto floor V level	cum	109.39	10769.74	11,78,103.00
17	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, bases of columns, etc. for mass concrete	sqm	6366.90	324.46	20,65,780.00
18	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors,	sqm	1557.90	807.64	12,58,218.00

		roofs, landings, balconies and access platform				
19	5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	4514.74	640.96	28,93,757.00
20	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for :Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	102.75	847.36	87,066.00
21	6.1.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	24.00	7015.13	1,68,363.00
22	6.4.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	229.14	8732.61	20,00,967.00
23	6.12.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	6.00	882.76	5,297.00
24	6.13.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	10.00	1072.62	10,726.00
25	8.8.1.2	Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete. Wedge expansion type Fastener with threaded dia 10 mm	each	54.00	35.61	1,923.00
26	9.20.1	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. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	15.00	3251.51	48,773.00
27	9.48.2	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. <i>Fixed to openings /wooden frames with rawl plugs screws etc.</i>	Kg	814.54	208.30	1,69,666.00

28	9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wallthickness of 5 mm (± 0.2 mm), made out of single piece extruded PVCprofile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	meter	42.00	487.03	20,455.00
29	9.142	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded soild PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side),having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitred cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineerin-charge. Decorative finish (wood grained finish)	sqm	11.76	4233.79	49,789.00

30	10.14.3.1	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge Profile E, Fixing with adjustable lugs with split end tail to each jamb	meter	76.20	538.81	41,057.00
31	9.134.1.1.2	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws : <i>35 mm thick shutters with ISI marked M.S. pressed butt hinges bright finished of required size Kiln seasoned and chemically treated hollock wood</i>	sqm	30.00	3458.44	1,03,753.00
32	9.5.2.1	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) necessary screws : 35 mm thick shutters with ISI marked M.S. pressed butt hinges bright finished of required size: <i>Kiln seasoned and chemically treated hollock wood: 35 mm thick shutters</i>	sqm	16.00	2646.59	42,345.00
33	9.9.2.1	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws: <i>Kiln seasoned and chemically treated hollock wood: 35 mm thick</i>	sqm	16.00	3266.74	52,268.00
34	9.83	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.	each	3.00	1080.62	3,242.00

35	9.96.1	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete 300x16 mm	each	13.00	274.25	3,565.00
36	9.97.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 300x10 mm	each	10.00	123.96	1,240.00
37	9.97.4	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 150x10 mm	each	72.00	79.60	5,731.00
38	9.98	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.	each	5.00	94.72	474.00
39	9.100.1	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 125 mm	each	82.00	63.27	5,188.00
40	9.101.2	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper	each	6.00	65.59	394.00
41	10.20	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.	Kg	8146.00	117.95	9,60,825.00
42	10.5.1	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces	Kg	9.45	5037.42	47,604.00
43	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as	sqm	164.28	985.75	1,61,939.00

		White, Ivory, Grey, Fume				
44	11.37A	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.	sqm	8.21	988.80	8,122.00
45	11.41.2	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 @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	sqm	120.00	1492.58	1,79,110.00
46	11.47.2	Providing and laying Vitrified 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 brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 600x600 mm	sqm	6.00	1765.99	10,596.00
47	12.12.1	Providing and fixing ridges and hips in fibre cement reinforced by organic fibres and/or inorganic synthetic fibres roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.	meter	80.00	468.59	37,487.00
48	12.8	Providing reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters	sqm	330.00	486.87	1,60,667.00

		and trusses), including cutting sheets to size and shape wherever required.				
49	12.41.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 75 mm diameter	meter	74.25	224.42	16,663.00
50	12.41.2	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. 110 mm diameter	meter	93.00	336.89	31,331.00
51	12.90	Extra for straight cutting in reinforced by organic fibres and/or inorganic synthetic fibres cement corrugated, semi corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter for chimney stacks, skylights etc.	meter	80.00	80.60	6,448.00
52	13.4.2	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)	sqm	4375.00	310.13	13,56,806.00
53	13.5.2	15 mm cement plaster on rough side of single or half brick wall of mix 1:6 (1 cement: 6 coarse sand)	sqm	2150.00	357.28	7,68,143.00
54	13.41.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including water thinnable priming coat with cement primer	sqm	2055.00	171.26	3,51,945.00
55	13.80	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.	sqm	2055.00	130.49	2,68,154.00
56	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade : 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)	sqm	2662.50	175.79	4,68,049.00
57	13.48.2	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :Painting wood work with Deluxe Multi Surface Paint ofrequired shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat	sqm	153.73	152.67	23,469.00

		<i>of primer applied @0.75 ltr/10 sqm of approved brand and manufacture</i>				
58	13.48.3	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : <i>Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture</i>	sqm	102.75	147.56	15,161.00
59	16.2	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	cum	23348.13	21.65	5,05,522.00
60	16.3.1	Supplying and stacking at site. 90 mm to 45 mm size stone aggregate	cum	6175.50	2041.46	1,26,07,008.00
61	16.3.2	Supplying and stacking at site. 63 mm to 45 mm size stone aggregate	cum	6139.13	1711.57	1,05,07,562.00
62	16.3.3	Supplying and stacking at site. 53 mm to 22.4 mm size stone aggregate	cum	6139.13	1935.73	1,18,83,668.00
63	16.3.5	Supplying and stacking at site. Over burnt (Jhama) brick aggregate 90 mm to 45 mm	cum	247.00	1096.96	2,70,948.00
64	16.3.7	Supplying and stacking at site. Stone screening 11.2 mm nominal size (Type B)	cum	9226.88	2176.42	2,00,81,569.00
65	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	cum	18453.75	912.21	1,68,33,638.00
66	16.10	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.	sqm	41400.00	190.17	78,73,237.00

67	16.43.2	<p>Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately): Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately. <i>Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer</i></p>	cum	12194.39	10541.95	12,85,52,645.00
68	16.44	Extra for providing and mixing hardening compound of approved quality as per manufacturer's specification in cement concrete.	Litre	30.49	50.73	1,547.00
69	16.45	Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Engineer-in-Charge. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.)	per cm depth per cm width per metre length	14092.50	4.95	69,785.00
70	16.46	Providing and laying in position bitumen hot sealing compound for expansion joints etc.	per cm depth per cm width per metre length	14092.50	7.90	1,11,359.00

71	16.78.2	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge: <i>With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25</i>	cum	6934.50	2924.42	2,02,79,424.00
72	16.91.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of course sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & direction of Engineerin-Charge. 60mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern.	sqm	7300.00	982.32	71,70,965.00
73	17.1.1	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 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	7.00	6091.23	42,639.00
74	17.7.2	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: require: White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	each	2.00	2016.33	4,033.00

75	17.16A	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.	each	2.00	315.40	631.00
76	17.28.2.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia	each	2.00	109.94	220.00
77	17.32.4	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing Rectangular shape 1500x450 mm	each	2.00	1914.60	3,829.00
78	17.34.1	Providing and fixing toilet paper holder C.P. brass	each	2.00	717.29	1,435.00
79	17.35.1.2	Providing and fixing soil, waste and vent pipes 100 mm dia Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	meter	35.00	1135.15	39,730.00
80	17.39.1.2	Providing and fixing plain bend of required degree. 100 mm dia Sand cast iron S&S as per IS : 3989	each	7.00	463.32	3,243.00
81	17.44.2.2	Providing and fixing single equal plain junction of required degree 75x75x75 mm Sand cast iron S&S as per IS - 3989	each	7.00	525.64	3,679.00
82	17.56.1.2	Providing and fixing terminal guard 100 mm Sand cast iron S&S as per IS - 3989	each	7.00	463.32	3,243.00
83	17.57A.1.1	Providing and fixing shielded coupling for Hubless centrifugally cast iron pipe 100 mm dia SS 304 grade coupling with EPDM rubber gasket	each	7.00	428.08	2,997.00
84	17.58.1	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter 100 mm	each	7.00	579.11	4,054.00
85	17.60.1.3	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors 100 mm inlet and 100 mm outlet Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	7.00	801.63	5,611.00
86	18.11.1	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 15 mm dia nominal bore	meter	205.50	511.21	1,05,053.00
87	18.11.2	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including	meter	44.53	570.10	25,384.00

		painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 20 mm dia nominal bore				
88	18.12.3	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 25 mm dia nominal bore	meter	44.53	440.35	19,607.00
89	18.12.4	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 32 mm dia nominal bore	meter	51.38	482.23	24,775.00
90	18.18.1	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore	each	4.00	367.55	1,470.00
91	18.18.2	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 32 mm nominal bore	each	5.00	418.75	2,094.00
92	18.15.1	Providing and fixing brass bib cock of approved quality 15 mm nominal bore	each	22.00	320.14	7,043.00
93	18.42.3	Boring with 100 mm diameter casing pipe for hand pump / tubewell, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested : <i>Beyond 12 m and up to 18 m depth</i>	meter	18.00	892.77	16,070.00
94	18.43	Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.	meter	18.00	856.84	15,423.00
95	18.44	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well.	meter	18.00	526.59	9,479.00
96	18.45	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.	each	3.00	1241.83	3,725.00
97	18.46.5	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : <i>40 mm nominal bore</i>	each	18.00	551.24	9,922.00
98	18.48A	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. Circular tank	Per litre	4000.00	10.22	40,880.00
99	18.50.1	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore	each	2.00	753.38	1,507.00

100	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	each	17.00	101.94	1,733.00
101	19.4.1.1	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 :100x100 mm size P type : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7.00	2585.06	18,095.00
102	19.6.3	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 250 mm dia. R.C.C. pipe	meter	993.60	854.63	8,49,158.00
103	19.6.4	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 300 mm dia. R.C.C. pipe	meter	108.00	950.40	1,02,643.00
104	19.36.2	Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete: 600 mm dia RCC pipes.	meter	162.00	3708.51	6,00,779.00
105	19.36.3	Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete: 900 mm dia RCC pipes.	meter	54.00	6947.86	3,75,184.00
106	20.3.2	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :400 mm dia piles	meter	999.00	3348.34	33,44,992.00

107	20.4.2	Extra over single under ream for providing additional bulbs in under reamed piles, under specified diameter(only the nos. of extra bulbs are to be paid): <i>400 mm dia piles</i>	meter	83.25	2564.25	2,13,474.00
108	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/ sqm).	sqm	12.60	815.75	10,278.00
109	22.7.1	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	sqm	258.00	1604.58	4,13,982.00

		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 With average thickness of 120 mm and minimum thickness at khurra as 65 mm.				
110	23.1.1.1	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, upto 90 metre depth below ground level. <i>All types of soil : 300 mm dia</i>	meter	90.00	623.78	56,141.00
111	23.3.2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge: <i>150 mm nominal size dia</i>	meter	70.00	704.33	49,303.00
112	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	6.33	1372.10	8,690.00

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113	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	6.33	1379.16	8,735.00
114	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	cum	6.33	1379.16	8,735.00
115	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	6.33	1558.54	9,871.00
Total Amount						34,22,74,592.21

SCHEDULE OF PRICES & TOTAL PRICES

<u>SCHEDULE - B</u>						
S. No.	DSR 2021	Description	Unit	Quantity	DFCCIL Rate Including GST @18%	Total amount Rs.
1	367.00	Portland Cement (OPC-43 Grade)	MT	7,291.89	5,268.00	38413676.52
Total Amount						38413676.52

SCHEDULE OF PRICES & TOTAL PRICES

<u>SCHEDULE - C</u>						
S. No.	DSR 2021	Description	Unit	Quantity	DFCCIL Rate Including GST @18%	Total amount Rs.
1	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	8,87,739.76	94.45	83847020.33
Total Amount						8,38,47,020.33

(ELECTRICAL DEPARTMENT)**SCHEDULE OF PRICES & TOTAL PRICES**

<u>SCHEDULE – D</u>					
Sl	Description of Item	Unit	Qty	DFCCIL Rate (Rs)	Amount
1	Concealed wiring of light point / Fan point / exhaust fan/call bell point in heavy gauge PVC conduit pipe as per IS 9537 with PVC insulated single core 1.5 sqmm multistrand copper conductor wire in voltage grade 1100 volt as per IS 694 with ECC of 1/18 SWG Copper wire. Make :Polycab, Anchor, Finolex. The price shall cover concealed wiring of light point/fan point/exhaust point/ call bell point in heavy gauge conduit pipe as per IS 9537 with PVC insulated single core 1.5 sqmm multistrand copper conductor wire in voltage grade 1100 volt as per IS 694 with ECC of 1/18 SWG copper wire in all respect with PVC conduit, junction box, bend, 5 A switches mounted on plate, MS box of suitable size complete with replastering of wall if required wiring to be done in separate circuit. Make: Polycab, Anchor, Finolex, Havells, RR Kabel, L&T	Each	50	195.00	9750.00
2	Concealed wiring of 5 Amp plug point in heavy gauge PVC conduit pipe as per IS 9537 with PVC insulated single core 1.5 sqmm multistrand copper conductor wire in voltage grade 1100 volt as per IS 694 with ECC of 1/18 SWG Copper wire. Make :Polycab, Anchor, Finolex.	Each	22	96.00	2112.00
3	Supply, Fixing, testing and commissioning of 15/5Amp 5 in 1 combined switch, socket, fuse units duly ISI Approved as per IS: 6538/1971 make : Anchor, EPP, JJ	Each	10	106.00	1060.00
4	Consealed Wiring of main from main distribution board to sub board in heavy gauge PVC conduit Pipe as per IS : 9537 with PVC multistrand copper conductor of size 2 x2.5 sqmm in voltagegrade 1100 volt as per IS: 694 with ECC of 1/18 SWG copper wire, make of wire : Finolex, Plaza, Polycab etc.	Mtr	500	73.39	36695.00
5	Concealed Wiring of main from main distribution board to sub board in heavy gauge PVC conduit Pipe as per IS : 9537 with PVC multistrand copper conductor of size 2 x 4 sqmm in voltagegrade 1100 volt as per IS: 694 with ECC of 1/18 SWG copper wire, make of wire : Finolex, Plaza, Polycab.	Mtr	360	111.00	39960.00
6	Concealed Wiring of main from main distribution board to sub board in heavy gauge PVC conduit Pipe as per IS : 9537 with PVC multistrand copper conductor of size 2 x 10 sqmm in voltagegrade 1100 volt as per IS: 694 with ECC of 1/18 SWG copper wire, make of wire : Finolex, Plaza, Polycab etc.	Mtr	300	158.45	47535.00
7	Supply of electric fan capacitor type sweep size 1200 mm,type of regulator fitted in ceiling fan;electronics ISI marking,BEE star rating suitable for operation on single phase AC,230V,50Hz :- ISI approved Usha, havel, Kaitan, bajaj ,polar Make	Each	24	2545.00	61080.00

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8	Fixing , testing and commissioning of ceiling fans with suitable clamps	Each	24	59.58	1429.92
9	Supply of single phase Propeller type Ventilating 04 Poles Exhaust fan of 300 mm. Sweep with louver shutter . ISI approved Usha, havel, Kaitan, bajaj Make	Each	25	1824.20	45605.00
10	Fixing , testing and commissioning of Exhaust fans with suitable clamps	Each	25	114.91	2872.75
11	Supply & erection of earthpit as per IS 3043 GI pipe used in size of 50 mm dia x 3 mtrs long medium gauge with alternate layer of charcoal and salt make of GI pipe : Tata, Jindal, Bansal The price shall cover earthing with 50 mm dia. GI pipe class B, 3 meter long earth erected as per IS:3043 (or latest version) to achieve earth resistance less than 5 Ohms including construction of masonry enclosure with hinged cover plate of cast iron with locking arrangement (approx. 400 mm x 400 mm) on top provision of earth plate. Connection from earth electrode to switchgear/pole as per drawing.	Each	25	2270.00	56750.00
12	Supply,fixing,testing and commissioning of wall mounted bracket fan duly ISI approved of make - USHA, polar,Kjaitan 400 Sweep	Each	8	1943.75	15550.00
13	Supply and fixing of LED batten green performance batten model no 919515810169Type BN 208 C LED 40/CDLL 1200 FR,6500K, Make:- Philipps, Havells,CG,Bajaj for indoor light	Each	32	2576.02	82432.64
14	Supply , fixing , testing and commissioning of 3 way DB with 03 Nos. SP MCB 16 Amp. / 240 V as per IS 11039/ 83(Reaffirm 2005) - 8828 / IEC 898. Make - Siemens, Standard, Havells, Hagers .	Each	6	478.99	2873.94
15	Wall clamping of cable on wall/bridge through suitable clamp of size 50*6 mm of MS flate or catenary of cable through 8 SWG GI wire with suitable clamps as per site requirement.	Mtr	300	25.26	7578.00
16	Supply,fixing,testing and commissioning of MS Bracket of size 50*50*6 mm with suitable clamps made of MS flate of size 50*6mm for cable support.	Each	40	378.86	15154.40
17	Supply of LED lamp 9W Make: Philips,Surya,havel,C&G	Each	40	93	3720.00
18	Supply,fixing,testing and commissioning of ELCB of Capacity 25 Amp with sensitivity 300ma as per IS:8828/IEC898 switch Make: havells, siemens,L&T	Each	5	1132	5660.00
19	Supply,fixing,testing and commissioning of 32 Amp DP main switch with Double door DB	Each	8	1250.00	10000.00
20	Supply, fixing, testing and commissioning of 4 Pole 63 Amp.MCCB with sheet steel enclosure . Make - siemens, L&T,Havells	Each	5	4070.73	20353.65
21	Providing and fixing medium grade GI pipes of 100 mm dia complete with GI fittings including trenching and refilling etc. for external work Make of GI pipe : Tata, Jindal, Bansal	Mtr	300	1055.83	316749.00
22	Laying of cable by pressure mechanism (HDD Method) through HDPE pipe of suitable size in all respect as per site condition.	Mtr	750	1260	945000.00
23	Supply and erection of 6 SWG GI Wire for earthing as per IS 5613/Pt-1/Section 1&11/1985 (latest Version)	Mtr	650	5	3250.00

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24	Digging of trenches 1 mtrs deep x 60 cm wide in all types of soil such as ordinary soil, hard soil, mixed with morum, hard clay, soft & hard rock etc.	Mtrs	3500	60	210000.00
25	To pack soft soil and sand below and above after laying single cable and 2nd class of 12 cm (4.5") above and right angle to trench laying the bricks 6 Cm (2.5") longitudinally all along the trenches over the cable to protect the cable from the external injury.	Mtrs	3500	18	63000.00
26	Laying of the above cable in the trench as per IS: 1255/1983(latest version)	Mtrs	3450	8	27600.00
27	Supply,Fixing , testing and commissioning of Single phase energy efficient Submersible pump 9000 LHP AGAINST 36mtr head complete with bowl assembly of 2HP suitable to work on A.C. single phase 230 volt supply, Water column,PVC flate cable in etc. water column pipe will be 60' in six length complete in all respect, dia of pipe 1.5" heavy duty G.I pipe with welded flange, PVC flat cable etc 02 nos. clamp sluice valve-01 no. MS nut bolt complete in all respect. Make Shakti,KSB, HindustanEngg, Make of GI pipe: TATA, SWASTIK,JINDAL & BANSAL	Each	1	39877.38	39877.38
28	Supply,Fixing , testing and commissioning of automatic control panel of 2HP pump set complete in all respect	Each	1	7272.36	7272.36
29	Supply, erection, testing and Commissioning of Octagonal pole (Dip Galvanised in single dep average 70 micron) 6 mtr long. Top dia 70 mm, Bottom dia 135mm. Sheet thickness 3mm, in single section with base plate (220X220x12 mm (LxBxH) with 700 mm long Double Arm Bracket and 04 Nos 16mm Dia X 600mm Long (100 mm. thread projectional), foundational bolt, complete with smart pack junction box with 6A MCB and stud terminals (for mounting inside base plate) and inter wiring for terminal to fitting with 2x2.5 sqmmcable of polycab,finolex,plaza) make of pole:- Bajaj,bansal, jindalRANSRAIL lighting ltd,Gsamnon or similar	Each	30	14500	435000.00
30	Supply, erection, testing and Commissioning of 45W LED Street light Luminaire made of pressure die cast Aluminium Housing with Heat resistant toughened glass and IP66 protection. Make:- Surya,Bajaj,Havels,CG	Each	70	4200	294000.00
31	Erection and casting of foundational for Octagonal Tubular pole with earth excavtion with cement, concrete and sand(1:3:6) and muffing of base foundation as per manufacturer drawings and dimentions as required under the supervision of site incharge.	Each	30	3000	90000.00

32	Supply , fixing , testing and commissioning of LT Cubical Panel board of size 135 x195 x45 Cm. and thickness 2 mm. comprising of the followings : (1)- For INCOMING 4 Pole 400 Amp. Cap. /415 V A.C. MCCB =01 Nos. , Make - ABB , GE , Siemens , L&T , Havells , Standard ,For Outgoing : (2)- 4 Pole , 100 Amp. Cap. / 415 V A.C. MCCB : 03 Nos. Make - ABB , GE , Siemens , L&T , Havells , Standard complete in all respect (3)Voltmeter (0-500 V) with selector switch , Ammeter with range 0-200 amp grade with selector switch Make - Kaycee, AE with CT 400/5 , Make - Kappa and Copper Bus bar 400 Amp. of requisite size as per Panel size of 3 Phase and Neutral with other accessories complete in all respect.	Set	1	84500	84500.00
33	Supply of XLPE LT 1100 volt Armouredaluminium cable 4x 70 sqmmMake:Kei,Havell,Polycab or Similar	Mtrs	1800	610	1098000.00
34	Supply of XLPE LT 1100 volt Armouredaluminium cable 4x 35 sqmmMake:Kei,Havell,Polycab or Similar	Mtrs	2000	320	640000.00
35	Supply of XLPE LT Armouredaluminium cable 4x 25 sqmm	Mtrs	2000	270.00	540000.00
36	Supply of XLPE LT Armouredaluminium cable 2x 16 sqmm multistrand armoured ISI approved suitable to 1100 volt grade Make:-paragon,Havells,Nicco,universal	Mtr	450	185	83250.00
37	Cable Junction box IP 66/67 weather proof , for outdoor installation (with knockouts for cable entry) with terminals As per site requirementsize 225x295x122 make Hensal or similar.	Each	10	8269	82690.00
38	Supply, jointing & commissioning of straight through joint kit for 1.1 kV PVC/PILC/XLPE cable size as per requirementcable size SQ.MM.4x25/ 4x35/4x70/4x120 sqmm, Make 3M, Dension or similar.	Each	20	1835	36700.00
39	Termination of LT XLPE cables of(4x25sqmm/4x35 sqmm/4x70sqmm/4x120sqmm) proper size Dowell/Isma make crimping sockets/lugs/PG clamps as required including testing and commissioning size as per requirement	Each	60	28	1680.00
40	Supply , erection , testing & commissioning of hot dip galvanized high mast tower 20 mtr high, suitable for wind velocity as per IS: 875 Pt.3 on GI polygon pole with lowering and rising facilitiesby single wire rope 6mm dia,2350kg braking load, double drumwinch and automatic switching device as per specification attached, along with 16 (sixteen) nos., 170 watt LED flood light/ Beam light luminaries, outdoor type, weather proof , die cast aluminum housing suitable to work on 230 AC supply Philips/Bajaj/Crompton Greaves/ Havells make. The price shall cover Supply, erection, testing & commissioning of hot dip galvanized High Mast Tower 20 Mtr. high, Base plate dia. 650 x 25 mm, with base outer dia 410mm and top outer dia.150 mm suitable for wind velocity as per IS:875Pt 03, on G.I. polygon polewith lowering and raising facilities by single wire rope, 6mm dia, 2350 Kg breaking load, double drum winch and automatic switching device alongwith16(Sixteen) Nos.170Watt LED flood light/Beam light luminaries, outdoor type, weather proof, die cast aluminium housing, suitable to work on 230V AC supply, Philips/Bajaj/Crompton Greaves/Havells make. This includes foundation work	Each	6	549661.75	3297970.50

	as per design. High mast should be as per IS: 875/Part(3) BSTN-10025/1993, CPE-III TRT/1996 of ILEUK. Octagonal pole S355JO, Galvanization IS: 2629 BSEN ISO1461 and Make of BAJAJ, PHILIPS, CROMPTON AND BPP HIGH MAST, GE, VENTURA, UTKARSH, WIPRO & ASTER. Mandatory Accessories are Winch, Mechanical torque limiter, motor, 6 mm dia. SS wire rope, Trailing cable, Power tool, Lantern carriage, Pullies, Head frame, Lightening protection Finial & Buffer, Feeder Pillar, Manual cranking handle, automatic switching control, Aviation obstruction warning light. COMMON FEATURES 1. Type of Joints for section – Slip – Stress fit. 2. Raising lowering speed – 3 Mtr/Min 3. Lubrication arrangement and type – Permanent oil bath – SAE 90/140 4. Lifting capacity – 500 – 750 Kg. 5. Trailing cable – ERP / PCP sheathed multi core flexible copper. 6. PCD in mm – 550. 7. Power tool (reversible) – 440 Volt, 50 Hz. 1 HP/1.5 HP				
41	Foundation of pole in with PCC concrete M-10 size 90x 90x 150 cm	cum	20	1317.21	26344.20
42	Supply of Automatic Changoover Panel for Colour light signalling of 150Amp Capacity as per core/RDSO/Approved as per specification noTI/SPC/PSI/CLS/0020 Make:Suntron Matrix or Core/RDSO Appoved.	Each	1	122430	122430.00
43	Fixing ,Testing ,Installation and commissioning of above item complete in all respect with secure IE Rule Arrangement.	Each	1	4404.33	4404.33
44	TOTAL				8917890.07
45	Grand TOTAL				Rs. 8917890.07

Note: Above rates are including GST

Explanatory Notes for BOQ:

- (i) Contractor shall quote rates of shuttering and curing for all heights.
- (ii) The rates of reinforcement item mentioned in the above schedule include placing of reinforcement under running traffic conditions.
- (iii) All DSR -2021 items contain item nos. if any discrepancy is found in nomenclature, schedule nomenclature will prevail.
- (iv) Tenderer must quote their rates for supply and Use of own material including loading, transportation and unloading at site. DFCCIL shall not provide any assistance for procurement of raw material.
- (v) The rates shall also be inclusive of all taxes legally livable and / or any other taxes, license fee and royalty charges etc. if any.
- (vi) The above quantity is approximate:-The DFCCIL reserves the right to increase / decrease the same.

