

NAME OF WORK : CONSTRUCTION OF ACCESS RAMP WITH GABION WALL SUPPORT FROM JETTY ROAD TO STP IN SOU CAMPUS- EKTA NAGAR

ANNEXURE 2

Sr No.	Description	QTY.	Unit	Rate excluding GST & including Labour cess	Amount (Rs.)
1	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle.	0.16	Hect.	28455.09	4,552.81
2	Demarcation of road alingment including marking out road line by providing and fixing wooden pegs or steel rod of required size at every 25 M to 50 M. including excavating trenches ion both sodes of 0.30 m. x 0.30M. including supplying of labours and all materials for every work etc complete.	0.111	Km	2706.50	300.42
3	Fabrication & Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 450, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001	56	Nos.	3952.13	2,21,319.28
4	Dismantling of Cement Concrete Pavement (Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately)	54	Cum	744.37	40,195.98
5	Excavation for foundation in sand, gravel, clay soft soils and murrum etc. including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed. (A) Depth upto 3.0 M. and lead upto 100m for 10 Cum	1022	Cum	523.28	5,34,792.16
6	Excavation in large boulders and soft rock by welding including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed.	1760	Cum	733.62	12,91,171.20
7	Providing and laying controlled cement concrete M.150 for curing complete excluding cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings,Base of columns and Mass concrete	72	Cum	3792.73	2,73,076.56
8	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each dispoisited layer by ramming and watering.	5234	Cum	137.47	7,19,517.98
9	Providing and supplying mechnically double twisted highly galvanized with (PVC) poly chloride coating gabions made of mesh size 10 x 12 mm woven wire as per ASTHMA 10 x 12 mm woven wire as per ASTHMA 975-97, Size of gabion 1 m x 1 m x 1m including providing and laying stones in the gabions and arranging them in a required manner in the section of break water or such other strcutre including quarring, blasting, loading at quarry site to transporting at work site and arranging in the gabion in workman like manner with required layer thickness and arranging this gabions in required layers with the crane if required capacity (if required as per drawings or as directed) with all material, labours, tools etc. comp,	2324	Cum	3282.50	76,28,530.00

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10	Providing & fixing of polyester needle punched non woven geotextile as separator/filter media below replaced fill and behind gabion as per MoRTH 700 Type-III geotextile. The width of geotextile roll shall not be less than 4.5 m, at easily accessible location including top and bottom, with all leads and lifts, manpower and machinery, materials, labour etc. complete and as directed by Engineer - In - Charge and approved drawings. (Maccaferri or Techfeb or Equivalent)	750	Sqm	64.64	48,480.00
11	Providing & laying 230 mm thick pucca rubble pitching in cement mortar 1:5 proportion with surface pointed with cement mortar of 1:3 proportion including curing etc. complete for all leads & lifts	910.00	Sqm	766.70	6,97,697.00
12	Type - A, "W" : Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fittings to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 811)	230	Rmt	3354.21	7,71,468.30
13	Providing and fixing in position FE 500D TMT bar reinforcement including cutting, bending and tying complete as per detailed drawings. (A) R.C.C. Kerb	10	MT	73243.02	7,25,178.40
14	Providing and casting in situ controlled cement concrete M-200 for Kerb/ kerb blocks including formwork curing and finishing, complete	28	Cum	4655.16	1,29,053.96
15	Construction of granular sub-base (Grade - III) by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MoRTH clause 401.	122.5	Cum	732.77	89,764.33
16	Providing and casting in situ Ordinary cement concrete M-150 for R.C.C. Raft and cut-off walls including necessary shuttering laying, vibrating, ramming and curing complete.	61.50	Cum	3583.27	2,20,371.11
17	Providing and casting in situ controlled trimix cement concrete M-300 for 200mm thick Wearing Coats as directed including providing and laying M.S. side rail of road thickness with necessary nut bolts plates fixing as per width applying plate vibrator (elcetric or diesel on channel compressor with vacumme dewatering system by using all necessary equipment and materials and machinery such running erected vibrator on prelaid M.S. channel for leveling vacuum pump floating and power travelling using Floor hardner of Approved make, cutting the joints at regular interval and with filling the joints with bitumin as directed by Engineer In charge	122.50	Cum	5898.40	7,22,554.00

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Sr No.	Description	QTY.	Unit	Rate excluding GST & including Labour cess	Amount (Rs.)
18	Paver Block Providing and laying shot blasted Non - interlocking, Paver blocks 80 mm thick M-45 grade of specified thickness, size, grade of concrete and colour machine made and blasting by automatic shot blasting machine and high density of as per approved sample of approved make for footpath, parking areas, service lanes, cross over and other areas as mentioned in the drawing. Including providing and laying 50 to 80 mm thick average bedding layer of coarse sand below paver block as per required grading and specification. Laid paver block shall be mechanically compacted. The work of the paving blocks shall be executed in line and level by skilled mason of flooring work only. Small size of paver block with same specification shall be used at residue or at end. It should be laid in such a way that the no cutting of the paver block to be necessary. If cutting of paver block shall be required, than cut by machine only and laying to be done by skilled flooring mason. The finished surface of the paver block shall have coarse sand Texture Finish. Pave blocks shall be compacted and shall be re-laid if necessary. Actual laid area shall be measured and paid without any wastage. (A) 80 mm thick M-45 grade Grey Paver block of size 200mm x 200 mm and 200 x 100 (as per Direction of Engineer In-Charge/Architect)	620	Sqm	978.08	6,06,409.60
19	Hazard Marker Sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 1.8mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2	Nos.	3666.30	7,332.60

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20	Regulatory / Mandatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 60 cms Dia Circle as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2	Nos.	4618.73	9,237.46
21	Distance Informatory / Destination Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 180x120 cms. rectangular as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4.0mtr long (2 Nos.) stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2	Nos.	20918.11	41,836.22

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22	Diversion Ahead Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 180x60 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.1 mtr long stand post (2 Nos.) of 50 x 50 x 5mm / 50NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2	Nos.	10671.66	21,343.32
23	Men at work (2' x 2') sign :-Providing and fixing sign boards made out of 2.0 mm aluminium sheet / 4 mm ACP(Aluminum composite Panel); size 60cm x 60cm square as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.3 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. the details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge.The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	4	Nos.	4962.13	19,848.52
24	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (general wiring + in street light) (a) with medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm (FRLS)	30	Mtr.	82.00	2,460.00
25	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) 4 core 10 Sq. mm	150	Mtr.	139.00	20,850.00

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Sr No.	Description	QTY.	Unit	Rate excluding GST & including Labour cess	Amount (Rs.)
26	Making trench in soft soil of suitable width of 90 cms deep for laying cable or locating the fault all over the run and backfilling the same and making the surface as normal ground.	110	Mtr.	55.00	6,050.00
27	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II) with necessary connecting accessories of same material at required depth for laying of cable. below ground / road surface for enclosing cable and back filling the same to make ground as per original. (C) 90 mm dia	110	Mtr.	95.00	10,450.00
28	SECTION 3.00 SWITCHGEARS & DISTRIBUTION BOARDS MINIATURE CIRCUIT BREAKERS. Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark(QTY FOR MCB OF DB AND MCB OF PANEL) Cat-III	10	Ea.	111.00	1,110.00
29	(3) 'B' class (Heavy Duty) frp/grp pole suitable for base plate mounting [B] Overall Length of 4.0 meter, Average thickness : 6mm, Top/Bottom Outside Dia. 76/143mm +/-2.Weight of Pole 15.4 Kg approx. (Without base) Metal Anchor Base dully frp claded (Size : 290 Ø * 12mmthk , Mounting hole PCD 240mm * 4 nos. of 16 Ø hole)	10	Ea.	10713.00	1,07,130.00
30	Supplying and erecting Street light pole bracket comprising main B Class MS pipe of 4.2 cm/require outside dia. complete with suitable B Class M.S. sleeve tubing of approx. 45cms.length and suitable for 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	10	Ea.	446.00	4,460.00
31	Painting of street light pole having post top lantern complete with primer with two coats of Aluminium paint.	10	Ea.	213.00	2,130.00
32	Painting of street light pole with bracket complete with two coats of Aluminium paint for following size of pole.(A) up to 4 mtr	10	Ea.	213.00	2,130.00
33	Providing and erecting C.I./M.S. flange type base plate of 300mm x 300mm x 6mm	10	Ea.	238.00	2,380.00
34	Providing and fixing Terminal board of size 5.0 x 127 x 152.4 mm.bakelite sheet with suitable brass studs with nuts, washers and clamps of size 25mm x 3mm suitable for pole painted with one coat of red lead paint.	10	Ea.	145.00	1,450.00
35	Providing and erecting cable clamp of 25 mm X 3 mm M.S. flat suitable for fixing 2 Nos.of armoured cable with nuts and bolts. (B) for 140 mm dia. Pole	10	Ea.	111.00	1,110.00

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36	Providing 1:2:4 cement concrete foundation & 70 % PCC from bottom including excavation for the pole of size 45 x 45 x 100 cm. Deep in below ground level with plinth of 45 cm x 45 cm (or 45 cm dia x 45 cm) high upper ground level with necessary curing and finishing in approved manner. for 4 & 6 mtr pole)	10	Ea.	801.00	8,010.00
37	Supplying and erecting LED street 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	10	Ea.	4948.00	49,480.00
38	Supplying & erecting approved make IP 55 grade Company fabricated Timer Panel of following capacity for switch On-Off street lights on time scheduling basis made from 16G CRCA sheet duly epoxy power painted inside and outside with hinged doors and locking arrangement consisting of suitable size of 4 Pole MCB and 4 pole contactor (cat-III) with analog time switch, auto manual switch of same make and suitable input and output Bakelite terminals and with door earthing approved by Engineer in charge.(C) 63 Amp	1	Ea.	16891.00	16,891.00
39	Supplying & erecting in earthpit of minimum bore dia. 225mm size ASH or approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for panel earthing.[A] For electrical installation up to 440 V(c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil. [B] For Electrical installation up to 11 KV located in other than normal soil i.e. Soft Rock, Marshy Soil etc.-Length of Pipe : 2 mtr Back filling Compound :1 no. Bag of 25 Kg.	5	Ea.	7025.00	35,125.00
Total					1,50,95,247.21