

Rajasthan Urban Sector Development Investment Program

ADB LOAN No. 2366 - IND

Bid Invitation Number : RUIDP/NCB-IR/03

Price Bid Evaluation of Package No. ALW/WS-02

Name of Work : Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and replacement of Leaking pipelines and rising main pipelines, Construction and Commissioning of Elevated service

Engineer's Estimate: Rs. 141591758.8

Price Bid Evaluation

Item No.	Description	Unit	Quantity	Engineer's Estimate			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
1.	2.	3	4	5	6	7.00	9	11	12	21
1	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 50 metres, stacking serviceable and unserviceable materials separately as directed by Engineer.									
a	Bituminous courses	cum	310	417.00	129270	0.09	60.00	18600	0.01	-85.61
b	Granular courses	cum	1850	278.00	514300	0.37	45.00	83250	0.05	-83.81
2	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 as per MoRT&H specification clause 202.	cum	3220	700.00	2254000	1.61	352.00	1133440	0.62	-49.71
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 50 metres as directed by Engineer.				0	0.00		0	0.00	
	Cement Concrete Grade M-15 & M-20 and PCC blocks	cum	4.5	357.00	1606.5	0.00	750.00	3375	0.00	110.08
4	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level. In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.				0	0.00		0	0.00	
a	Depth upto 1.5 m	cum	53730	69.00	3707370	2.65	62.00	3331260	1.81	-10.14
b	For depth 1.5 to 3.0 m	cum	1130	79.00	89270	0.06	68.00	76840	0.04	-13.92
5	Providing, lowering, laying in trenches, aligning, fixing in position and jointing socketed rubber gasket type ISI marked uPVC pipes of Class III (6 Kg/sqcm) suitable for potable water with rubber ring joints (as per IS 4985-2000) of following outer dia with all accessories (excluding specials) complete including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	90mm dia.	RM	35826	163.00	5839638	4.17	163.00	5839638	3.17	0.00
b	110mm dia.	RM	10257	222.00	2277054	1.63	233.00	2389881	1.30	4.95
c	140mm dia	RM	12510	358.00	4478580	3.20	245.00	3064950	1.66	-31.56
d	180mm dia.	RM	8964	559.00	5010876	3.58	608.00	5450112	2.96	8.77
e	225 mm dia.	RM	4644	890.00	4133160	2.95	969.00	4500036	2.44	8.88

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
f	280mm dia	RM	1172	1398.00	1638456	1.17	1578.00	1849416	1.00	12.88
g	315mm dia.	RM	684	1719.00	1175796	0.84	1045.00	714780	0.39	-39.21
6	Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining for potable water with rubber ring (EPDM/SBR) joints as per IS: 5382-1985 (excluding special accessories) complete including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	100 mm dia DI K-7 pipe	RM	3253	900.00	2927700	2.09	1230.00	4001190	2.17	36.67
b	150 mm dia DI K-7 pipe	RM	450	1132.00	509400	0.36	1797.00	808650	0.44	58.75
c	200 mm dia DI K-7 pipe	RM	1725	1712.00	2953200	2.11	2061.00	3555225	1.93	20.39
d	250 mm dia DI K-7 pipe	RM	2700	2018.00	5448600	3.90	2694.00	7273800	3.95	33.50
e	300 mm dia DI K-7 pipe	RM	3200	2482.00	7942400	5.68	3420.00	10944000	5.94	37.79
f	350 mm dia DI K-7 pipe	RM	463	3087.00	1429281	1.02	4295.00	1988585	1.08	39.13
g	400 mm dia DI K-7 pipe	RM	240	3636.00	872640	0.62	5148.00	1235520	0.67	41.58
h	450 mm dia DI K-7 pipe	RM	60	4332.00	259920	0.19	6056.00	363360	0.20	39.80
7	Providing, lowering, laying, aligning, fixing in position at and jointing at all level/ depths S&S standard specials with rubber ring (EPDM/SBR) joints as per IS: 5382-1985 such as tees, bends, tapers, caps etc. within trenches in DI pipe line complete including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.Specials flanged DI K-12				0	0.00		0	0.00	
a	Upto 300mm dia	kg	16992	79.00	1342368	0.96	146.00	2480832	1.35	84.81
b	Above 300mm dia	kg	2289	91.00	208299	0.15	219.00	501291	0.27	140.66
8	Providing, lowering, laying, aligning, fixing in position at all level/ depths CI Class - B double flanged specials as per IS : 7181 in trenches complete (excluding jointing) including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	Standard specials	kg	10500	53.00	556500	0.40	86.00	903000	0.49	62.26
b	Non-standard specials	kg	4500	57.00	256500	0.18	86.00	387000	0.21	50.88
9	Providing and fixing plain ended CI Tee's, reducers, bends etc., complete suitable for PVC/AC pipes for various sizes of pipe lines as per specifications, complete.	KG	16700	40.00	668000	0.48	86.00	1436200	0.78	115.00
10	Providing and fixing in position CI Puddle collar (approx. 1m length) inside the wall including all material labour as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	150mm dia	each	6	14403.00	86418	0.06	5330.00	31980	0.02	-62.99
b	200mm dia	each	5	19772.00	98860	0.07	7565.00	37825	0.02	-61.74
c	250mm dia	each	12	25516.00	306192	0.22	10151.00	121812	0.07	-60.22
d	300mm dia	each	11	31715.00	348865	0.25	12981.00	142791	0.08	-59.07
e	350mm dia	each	6	38211.00	229266	0.16	17051.00	102306	0.06	-55.38
f	400mm dia	each	1	45017.00	45017	0.03	20415.00	20415	0.01	-54.65

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
11(A)	Providing, lowering, laying in trenches, aligning, fixing in position and jointing ISI marked uPVC pipe fittings/ accessories of class III (6 Kg/sqcm) moulded suitable for potable water with rubber rings joints in uPVC pipe pipe line at all levels/ depth including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
	Equal Tee				0	0.00		0	0.00	
a	90 mm dia	each	500	92.00	46000	0.03	112.00	56000	0.03	21.74
b	110 mm dia	each	200	154.00	30800	0.02	184.00	36800	0.02	19.48
c	140 mm dia	each	100	340.00	34000	0.02	298.00	29800	0.02	-12.35
d	180mm dia	each	76	534.00	40584	0.03	1430.00	108680	0.06	167.79
e	225 mm dia	each	30	979.00	29370	0.02	2293.00	68790	0.04	134.22
f	280 mm dia	each	5	1713.00	8565	0.01	3588.00	17940	0.01	109.46
g	315 mm dia	each	5	2349.00	11745	0.01	3822.00	19110	0.01	62.71
	Flanged tail piece	each			0	0.00		0	0.00	
h	90 mm dia	each	300	40.00	12000	0.01	38.00	11400	0.01	-5.00
l	110 mm dia	each	200	70.00	14000	0.01	61.00	12200	0.01	-12.86
j	140 mm dia	each	90	155.00	13950	0.01	129.00	11610	0.01	-16.77
k	180mm dia	each	70	235.00	16450	0.01	228.00	15960	0.01	-2.98
l	225 mm dia	each	40	765.00	30600	0.02	703.00	28120	0.02	-8.10
m	280 mm dia	each	5	825.00	4125	0.00	744.00	3720	0.00	-9.82
n	315 mm dia	each	5	1050.00	5250	0.00	909.00	4545	0.00	-13.43
	uPVC End Plug	each			0	0.00		0	0.00	
o	90 mm dia	each	50	33.00	1650	0.00	30.00	1500	0.00	-9.09
p	110 mm dia	each	25	49.00	1225	0.00	45.00	1125	0.00	-8.16
q	140 mm dia	each	15	102.00	1530	0.00	145.00	2175	0.00	42.16
r	180mm dia	each	5	210.00	1050	0.00	307.00	1535	0.00	46.19
s	225 mm dia	each	5	355.00	1775	0.00	469.00	2345	0.00	32.11
	Double sockete				0	0.00		0	0.00	
t	90 mm dia	each	500	45.00	22500	0.02	31.00	15500	0.01	-31.11
u	110 mm dia	each	200	50.00	10000	0.01	45.00	9000	0.00	-10.00
v	140 mm dia	each	100	190.00	19000	0.01	149.00	14900	0.01	-21.58
w	180mm dia	each	76	655.00	49780	0.04	605.00	45980	0.02	-7.63
x	225 mm dia	each	30	710.00	21300	0.02	636.00	19080	0.01	-10.42
y	280 mm dia	each	5	790.00	3950	0.00	716.00	3580	0.00	-9.37
z	315 mm dia	each	5	1050.00	5250	0.00	875.00	4375	0.00	-16.67
					0	0.00		0	0.00	
11(B)	Providing, lowering, laying in trenches, aligning, fixing in position and jointing ISI marked uPVC pipe fittings/ accessories of class IV(8 Kg/sqcm) fabricated suitable for potable water with rubber rings joints in uPVC pipe pipe line at all levels/ depth including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
	Double socketed 90 degree bend	each			0	0.00		0	0.00	
a	90 mm dia	each	300	72.00	21600	0.02	124.00	37200	0.02	72.22

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
b	110 mm dia	each	200	119.00	23800	0.02	231.00	46200	0.03	94.12
c	140 mm dia	each	90	158.00	14220	0.01	471.00	42390	0.02	198.10
d	180mm dia	each	70	405.00	28350	0.02	972.00	68040	0.04	140.00
e	225 mm dia	each	40	1950.00	78000	0.06	2293.00	91720	0.05	17.59
f	280 mm dia	each	5	3672.00	18360	0.01	5987.00	29935	0.02	63.04
g	315 mm dia	each	5	5559.00	27795	0.02	7114.00	35570	0.02	27.97
	Double socketed 45/22.5/11.25 degree bend	each			0	0.00		0	0.00	
h	90 mm dia	each	100	113.00	11300	0.01	124.00	12400	0.01	9.73
l	110 mm dia	each	22	198.00	4356	0.00	223.00	4906	0.00	12.63
j	140 mm dia	each	22	462.00	10164	0.01	446.00	9812	0.01	-3.46
k	180mm dia	each	12	990.00	11880	0.01	926.00	11112	0.01	-6.46
l	225 mm dia	each	12	1950.00	23400	0.02	2356.00	28272	0.02	20.82
m	280 mm dia	each	5	3672.00	18360	0.01	5691.00	28455	0.02	54.98
n	315 mm dia	each	3	5555.00	16665	0.01	6160.00	18480	0.01	10.89
12	Providing moulded ISI marked uPVC pipe fittings/ accessories of class III (6 Kg/sqcm) and lowering, laying in trenches, aligning, fixing in position and jointing of pipe fittings/ accessories suitable for potable water with rubber rings joints in uPVC pipe pipe line at all levels/ depth including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer.					0	0.00	0	0.00	
	Unequal Tee					0	0.00	0	0.00	
a	110x110 x 90 mm dia.	each	200	154.00	30800	0.02	303.00	60600	0.03	96.75
b	140x140x90 mm dia	each	100	340.00	34000	0.02	359.00	35900	0.02	5.59
c	140x140x110 mm dia	each	150	340.00	51000	0.04	344.00	51600	0.03	1.18
d	180x180x140mm dia	each	100	534.00	53400	0.04	759.00	75900	0.04	42.13
e	180x180x110mm dia	each	20	534.00	10680	0.01	721.00	14420	0.01	35.02
f	180x180x90mm dia	each	100	534.00	53400	0.04	686.00	68600	0.04	28.46
g	225x225x180 mm dia	each	50	979.00	48950	0.03	2066.00	103300	0.06	111.03
h	225x225x140 mm dia	each	50	979.00	48950	0.03	1903.00	95150	0.05	94.38
i	225x225x110 mm dia	each	10	979.00	9790	0.01	1620.00	16200	0.01	65.47
j	280 x280x225mm dia	each	20	1713.00	34260	0.02	3562.00	71240	0.04	107.94
k	280 x280x180mm dia	each	15	1713.00	25695	0.02	3198.00	47970	0.03	86.69
l	280 x280x140mm dia	each	10	1713.00	17130	0.01	2905.00	29050	0.02	69.59
m	315x315x280 mm dia	each	10	2349.00	23490	0.02	6440.00	64400	0.03	174.16
n	315x315x225 mm dia	each	10	2349.00	23490	0.02	5469.00	54690	0.03	132.82
o	315x315x180 mm dia	each	10	2349.00	23490	0.02	4434.00	44340	0.02	88.76
p	315x315x140 mm dia	each	10	2349.00	23490	0.02	3952.00	39520	0.02	68.24
	Reducer					0	0.00	0	0.00	
q	280x315	each	20	1420.00	28400	0.02	1388.00	27760	0.02	-2.25
r	225x315	each	15	1120.00	16800	0.01	1483.00	22245	0.01	32.41
s	225x280	each	40	995.00	39800	0.03	1301.00	52040	0.03	30.75
t	180x280	each	50	874.00	43700	0.03	1452.00	72600	0.04	66.13
u	140x180	each	50	342.00	17100	0.01	572.00	28600	0.02	67.25
v	110x180	each	75	126.00	9450	0.01	347.00	26025	0.01	175.40
w	90x180	each	50	116.00	5800	0.00	564.00	28200	0.02	386.21
x	90x140	each	80	96.00	7680	0.01	111.00	8880	0.00	15.63
y	110x140	each	100	112.00	11200	0.01	111.00	11100	0.01	-0.89
z	90x110	each	150	88.00	13200	0.01	58.00	8700	0.00	-34.09

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
13	Providing, lowering, laying, aligning, fixing in position and jointing CI Transition Coupling Joints for making connection between AC pipes and uPVC/CI/DI pipes to match the outside diameter of following proposed pipe sizes for potable water including all jointing material as per manufacturer's specification, cost of all labour, testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	80 mm dia	each	250	551.00	137750	0.10	339.00	84750	0.05	-38.48
b	100 mm dia	each	125	633.00	79125	0.06	412.00	51500	0.03	-34.91
c	125 mm dia	each	100	780.00	78000	0.06	549.00	54900	0.03	-29.62
d	150 mm dia	each	100	854.00	85400	0.06	689.00	68900	0.04	-19.32
e	200 mm dia	each	75	1360.00	102000	0.07	997.00	74775	0.04	-26.69
f	250 mm dia	each	75	1479.00	110925	0.08	1075.00	80625	0.04	-27.32
g	300 mm dia	each	50	1835.00	91750	0.07	1359.00	67950	0.04	-25.94
h	350 mm dia	each	50	2775.00	138750	0.10	2329.00	116450	0.06	-16.07
14	Providing, lowering, laying, aligning, fixing in position and jointing CID- joint class-10 as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	80 mm dia	each	4000	234.00	936000	0.67	364.00	1456000	0.79	55.56
b	100 mm dia	each	3000	265.00	795000	0.57	455.00	1365000	0.74	71.70
c	125 mm dia	each	1000	317.00	317000	0.23	727.00	727000	0.39	129.34
d	150 mm dia	each	1500	369.00	553500	0.40	823.00	1234500	0.67	123.04
e	200 mm dia	each	1000	517.00	517000	0.37	1438.00	1438000	0.78	178.14
f	250 mm dia	each	300	647.00	194100	0.14	1909.00	572700	0.31	195.05
g	300 mm dia	each	200	768.00	153600	0.11	2348.00	469600	0.25	205.73
h	350 mm dia	each	25	1229.00	30725	0.02	3637.00	90925	0.05	195.93
15	Providing, lowering, laying, aligning, fixing in position and jointing CID- joint class-15 as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	80 mm dia	each	500	234.00	117000	0.08	425.00	212500	0.12	81.62
b	100 mm dia	each	250	265.00	66250	0.05	512.00	128000	0.07	93.21
c	125 mm dia	each	250	317.00	79250	0.06	832.00	208000	0.11	162.46
d	150 mm dia	each	200	381.00	76200	0.05	931.00	186200	0.10	144.36
e	200 mm dia	each	200	520.00	104000	0.07	1599.00	319800	0.17	207.50
f	250 mm dia	each	100	658.00	65800	0.05	1994.00	199400	0.11	203.04
g	300 mm dia	each	85	787.00	66895	0.05	2546.00	216410	0.12	223.51
h	350 mm dia	each	50	1302.00	65100	0.05	4001.00	200050	0.11	207.30
16	Providing, lowering, laying, aligning, fixing in position in pipe line, manually operated CI D/F Sluice valves of approved make (IS: 14846 amended upto date) PN 1.0 class of following dia complete (excluding jointing and jointing material) including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	80 mm dia Category "B"	each	100	2806.00	280600	0.20	3788.00	378800	0.21	35.00
b	100 mm dia Category "B"	each	50	3702.00	185100	0.13	4998.00	249900	0.14	35.01

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
c	125 mm dia Category "B"	each	32	4609.00	147488	0.11	6222.00	199104	0.11	35.00
d	150 mm dia Category "B"	each	18	5505.00	99090	0.07	7432.00	133776	0.07	35.00
e	200 mm dia Category "B"	each	20	10399.00	207980	0.15	14050.00	281000	0.15	35.11
f	250 mm dia Category "B"	each	14	17054.00	238756	0.17	23025.00	322350	0.18	35.01
g	300 mm dia Category "B"	each	11	21894.00	240834	0.17	29560.00	325160	0.18	35.01
17	Fabrication, supply of flanged/ plain ended MS pipe made from MS sheet strips of relevant IS specification of approved thickness by welding, lowering, laying, aligning, fixing in position at all level/ depths in trenches complete (excluding flanged jointing wherever required) including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
	MS pipe specials upto 600mm dia (with minimum 5mm thickness sheet)	Kg	7000	86.00	602000	0.43	80.00	560000	0.30	-6.98
18	Providing, lowering, laying, aligning, fixing in position and jointing in pipe line, dual plate check valves as per API:594 and API:598 of PN 1.0 rating of following dia (excluding jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	125 mm dia Category "B"	each	8	4936.00	39488	0.03	6665.00	53320	0.03	35.03
b	150 mm dia Category "B"	each	7	6388.00	44716	0.03	8625.00	60375	0.03	35.02
c	200 mm dia Category "B"	each	7	9189.00	64323	0.05	12405.00	86835	0.05	35.00
d	250 mm dia Category "B"	each	10	14634.00	146340	0.10	19755.00	197550	0.11	34.99
e	300 mm dia Category "B"	each	3	18264.00	54792	0.04	24656.00	73968	0.04	35.00
19	Providing, lowering, laying, aligning, fixing in position and jointing in pipe line Kinetic Double Air Valves as per IS:14845 of following dia (excluding jointing and jointing material), including all material, labour, testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	50 mm dia	each	4	6566.00	26264	0.02	8865.00	35460	0.02	35.01
b	80 mm dia	each	4	9046.00	36184	0.03	12210.00	48840	0.03	34.98
20	Constructing masonry Chamber 120x120x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design with FPS bricks.	Each	18	7866.15	141590.7	0.10	6078.00	109404	0.06	-22.73

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
21	Constructing masonry Chamber 90x90x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design with FPS bricks.	Each	4	5669.30	22677.2	0.02	3495.00	13980	0.01	-38.35
					0	0.00		0	0.00	
22	Disinfecting water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory for the following and equivalent sizes of uPVC :				0	0.00		0	0.00	
	Fou uPVC pipes				0	0.00		0	0.00	
a	90 mm dia	metre	35826	6.00	214956	0.15	6.00	214956	0.12	0.00
b	110 mm dia	metre	10257	7.00	71799	0.05	7.00	71799	0.04	0.00
c	140 mm dia	metre	12510	10.00	125100	0.09	15.00	187650	0.10	50.00
d	180 mm dia	metre	8964	16.00	143424	0.10	20.00	179280	0.10	25.00
e	225 mm dia	metre	4644	21.00	97524	0.07	25.00	116100	0.06	19.05
f	280 mm dia	metre	1172	30.00	35160	0.03	35.00	41020	0.02	16.67
g	315 mm dia	metre	684	44.00	30096	0.02	40.00	27360	0.01	-9.09
	For DI pipes				0	0.00		0	0.00	
h	100 mm dia DI K-7 pipe	metre	3253	7.00	22771	0.02	6.00	19518	0.01	-14.29
i	150 mm dia DI K-7 pipe	metre	450	16.00	7200	0.01	15.00	6750	0.00	-6.25
j	200 mm dia DI K-7 pipe	metre	1725	21.00	36225	0.03	20.00	34500	0.02	-4.76
k	250 mm dia DI K-7 pipe	metre	2700	30.00	81000	0.06	25.00	67500	0.04	-16.67
l	300 mm dia DI K-7 pipe	metre	3200	44.00	140800	0.10	40.00	128000	0.07	-9.09
m	350 mm dia DI K-7 pipe	metre	463	60.00	27780	0.02	45.00	20835	0.01	-25.00
n	400 mm dia DI K-7 pipe	metre	240	76.00	18240	0.01	50.00	12000	0.01	-34.21
o	450 mm dia DI K-7 pipe	metre	60	94.00	5640	0.00	55.00	3300	0.00	-41.49
23	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto two stories excluding cost of centring, shuttering, finishing and reinforcement :1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size) for thrust blocks	Cum.	90	3538.80	318492	0.23	5260.00	473400	0.26	48.64
24	Providing and making house service connections from water supply distribution uPVC pipe line upto 150mm dia and upto water meter chamber inside the property using MDPE (Class-PE 80) composite pipes upto 2 metre length including supply and fixing of ferrules, clamps, rubber sheets, tapping, compression fittings etc, complete including all material, labour, testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
	20 mm dia service pipe	per service connect ion	1000	299.00	299000	0.21	533.00	533000	0.29	78.26
25	Providing, lowering, laying & jointing MDPE pipes (Class-PE 80) composite pipes for extra length for house service connections as per drawing and specifications complete including all material, labour, testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
	20 mm dia service pipe	metre	6000	85.00	510000	0.36	115.00	690000	0.37	35.29
26	Providing and laying un-reinforced, dowel jointed, plain cement concrete mix With Concrete Mixer & vibrator pavement over a prepared sub base with 43 grade cement , coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed as per approved mix design, laid, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, admixtures (if required) as approved, curing compound, finishing to lines and grades complete as per drawing and as per clause 602, 112 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.In PCC M-20	cum	2060	3945.00	8126700	5.81	4925.00	10145500	5.51	24.84
27	Providing laying, spreading and compacting stone aggregates of specific sizes as per Table 400-7 to Water Bound Macadam specification including spreading in uniform thickness; hand packing, rolling with power roller 8-10 tonnes, in stages to proper grade and camber, applying and brooming requisite type of screening (Table 400-8) binding materials to fill up the interstices of coarse aggregates, watering (with water browser) and compacting to required density, making necessary earthen bund to protect edges as per clause 404 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion complete				0	0.00		0	0.00	
a	crusher broken - Grade-II (63-45mm)	cum	2977	1036.00	3084172	2.20	1439.00	4283903	2.33	38.90
b	crusher broken - Grade-III (53-22.4mm)	cum	870	1069.00	930030	0.66	1473.00	1281510	0.70	37.79
28	Providing and applying primer coat over prepared surface of granular base with bitumen emulsion as per IS : 8887 and approved quality @ 0.6 kg/sqm with the help of spray set fitted on bitumen Container (boiler) after cleaning the surface including removing of binding material and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment complete as per clause 502 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion	Sqm	9758	19.00	185402	0.13	25.00	243950	0.13	31.58

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
29	Providing and laying open graded premix carpet 20mm thick (compacted), on prepared surface in a single course as wearing course, composed of specified graded crushed stone aggregate as per Table 500-23, premixed with bituminous binder @ 14.60 kg/ 10sqm (including cost of anti-stripping compound wherever required), including loading of material with F.E. loader, hot mixing of stone aggregate and bitumen in computerised hot mix plant, transporting the mixed material by tippers to paver and laying with paver finisher fitted with electronic sensor control to the required level and grade, compacting smooth wheeled roller 8-10 tonne capacity and finishing to required level to achieve the desired density as per clause 511 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion but excluding cost of tack coat/ seal coat.				0	0.00		0	0.00	#DIV/0!
	With bitumen of grade 60/70	sqm	11600	82.00	951200	0.68	106.00	1229600	0.67	29.27
30	Providing and applying premixed seal coat Type "B" comprising of thin application of fine aggregate 0.06 cum/ 10 sqm premix with bitumen binder @ 6.8 Kg/ 10 Sqm (including cost of anti-stripping compound wherever required) laying with paver finisher with electronic sensor control and rolling with power roller 8-10 tonne complete as per clause 513 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.				0	0.00		0	0.00	
	With bitumen of grade 60/70	sqm	11600	33.00	382800	0.27	65.00	754000	0.41	96.97
31	Labour charges for making connection with proposed pipe to existing pipe line including dewatering & excavation etc. complete as directed by site engineer following diameter				0	0.00		0	0.00	
a	80 mm dia AC	Nos.	100	300.00	30000	0.02	3543.00	354300	0.19	1081.00
b	100 mm diaAC	Nos.	80	350.00	28000	0.02	3543.00	283440	0.15	912.29
c	125 mm dia AC	Nos.	60	400.00	24000	0.02	3603.00	216180	0.12	800.75
d	150 mm diaAC	Nos.	40	500.00	20000	0.01	3603.00	144120	0.08	620.60
e	200 mm diaAC	Nos.	25	600.00	15000	0.01	3667.00	91675	0.05	511.17
f	250 mm diaAC	Nos.	15	650.00	9750	0.01	3734.00	56010	0.03	474.46
g	300 mm diaAC	Nos.	10	800.00	8000	0.01	3804.00	38040	0.02	375.50
h	350 mm diaAC	Nos.	2	850.00	1700	0.00	3877.00	7754	0.00	356.12
i	400 mm diaAC	Nos.	2	1000.00	2000	0.00	3953.00	7906	0.00	295.30
32	Providing and laying in position cement concrete M10 excluding the cost of centring and shuttering - All work upto plinth level :-1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).				0	0.00		0	0.00	
	For foundation and plinth protection	m³	751	2428.70	1823953.7	1.30	2745.00	2061495	1.12	13.02
33	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level:				0	0.00		0	0.00	
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	m³	88	3341.60	294060.8	0.21	5260.00	462880	0.25	57.41

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
34	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level : 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size). (As per design mix)				0	0.00		0	0.00	
a	0.0 m to 3.0 m below GL	m ³	763	3399.20	2593589.6	1.85	5750.00	4387250	2.38	69.16
b	0.0 m to 4.5 m above GL	m ³	326	3596.40	1172426.4	0.84	6048.00	1971648	1.07	68.17
35	Providing and laying in position specified grade of cement concrete for RCC structural element up to floor three level including curing, compaction, finishing with rendering cement sand mortar 1:3 (1 cement : 3 sand) making good the joints excluding the cost of centring, shuttering and reinforcement for -M25 grade). (As per design mix)				0	0.00		0	0.00	
	4.5 m to 9.0 m above GL	m ³	266	3733.00	992978	0.71	6109.00	1624994	0.88	63.65
a	9.0 m to 13.5 m above GL	m ³	186	3778.00	702708	0.50	6258.00	1163988	0.63	65.64
b	13.5 m to 18.0 above GL	m ³	186	3823.00	711078	0.51	6407.00	1191702	0.65	67.59
c	18.0 m to 22.5 m above GL	m ³	945	3868.00	3655260	2.61	6556.00	6195420	3.36	69.49
d	22.5 m to 27.0 m above GL	m ³	630	3913.00	2465190	1.76	6706.00	4224780	2.29	71.38
e	27.0 m to 31.0 m above GL	m ³	250	3958.00	989500	0.71	6855.00	1713750	0.93	73.19
36	Add Extra for providing & mixing synthetic fibres 12 mm as secondary reinforcement with dosage of 125 gms per 50 kg of cement (0.25% by weight of cement) in cement concrete for RCC work in ESR & CWR as per standarder specification and direction of engineer incharge.	kg	3550	35.00	124250	0.09	150.00	532500	0.29	328.57
37	Reinforcement for R.C.C. work at all levels including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically T treated bars.				0	0.00		0	0.00	
		kg	367350	42.25	15520537.5	11.10	62.00	22775700	12.37	46.75
38	Centring and shuttering at all levels including strutting, propping etc. and removal of form for :				0	0.00		0	0.00	
a	Foundations, footings, bases of columns, etc. for mass concrete.	SqM	1208	104.80	126598.4	0.09	50.00	60400	0.03	-52.29
b	Columns, Pillars, Piers, Abutments, Posts and Struts. upto 3.5 m	SqM	5890	212.90	1253981	0.90	62.00	365180	0.20	-70.88
c	3.5 m to 9.0 m above GL	SqM	3200	212.90	681280	0.49	68.00	217600	0.12	-68.06
d	9.0 m to 13.5 m above GL	SqM	1300	218.90	284570	0.20	93.00	120900	0.07	-57.51
e	13.5 m to 18.0 above GL	SqM	1300	224.90	292370	0.21	118.00	153400	0.08	-47.53
f	18.0 m to 22.5 m above GL	SqM	3175	230.90	733107.5	0.52	143.00	454025	0.25	-38.07
g	22.5 m to 27.0 m above GL	SqM	4100	236.90	971290	0.69	168.00	688800	0.37	-29.08
h	27.0 m to 31.0 m above GL	SqM	2100	242.90	510090	0.36	193.00	405300	0.22	-20.54
39	Finishing walls with water proofing cement paint of required shade :				0	0.00		0	0.00	
	New work (Two or more coats applied @ 3.84 kg/10 sqm).	SqM	13275	30.45	404223.75	0.29	40.00	531000	0.29	31.36
40	Providing and fixing T /Angle iron frames for doors, windows and ventilators or mild steel tee or angle sections joints mitred and welded with 15 x 3mm lugs, 10 cm. Long embedded in cement concrete blocks 15 x 15 x 10cm. Size of 1 : 3 : 6 (1 cement : 3 courses and : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	kg	456	51.05	23278.8	0.02	77.00	35112	0.02	50.83

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
41	Providing and fixing M.S. sheet 20 SWG single leaf door shutter in angle iron frame 35 x 35 x 5cm suitability diagonally braced with 25 x 3mm flat iron above and below lock rail of size 50 x 5cm beading extra including all fittings, as per direction of Engineer incharge but excluding cost of chokhats including two coats of anti corrosive red oxide primer paint	SqM	50.5	1080.00	54540	0.04	1900.00	95950	0.05	75.93
42	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :Cement mortar 1:6 (1 cement : 6 coarse sand)	CuM	745	1756.85	1308853.25	0.94	1200.00	894000	0.49	-31.70
43	Plastering on new surface of walls in CM (1:4) including tools & plants, scaffolding material and complete labour for mixing of material including cost of water and curing, racking of joints etc., complete.				0	0.00		0	0.00	
	a) Internal Plastering- 12mm thick	SqM	6770	76.85	520274.5	0.37	138.00	934260	0.51	79.57
	b) External Plastering-20mm thick	SqM	13490	109.95	1483225.5	1.06	157.00	2117930	1.15	42.79
44	Providing, lowering, laying, aligning, fixing in position at all level/ depths CI Class - B double flanged pipes of standard length of 2.75m as per IS : 7181 in trenches complete (excluding jointing and jointing material) including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer. for Inlet, Ov erflow, Outlet and wash out pipe etc.				0	0.00		0	0.00	
	a 150 mm	Meter	240	2055.00	493200	0.35	4001.00	960240	0.52	94.70
	b 200 mm	Meter	140	2995.00	419300	0.30	5752.00	805280	0.44	92.05
	c 250 mm	Meter	480	3994.00	1917120	1.37	7784.00	3736320	2.03	94.89
	d 300 mm	Meter	350	5136.00	1797600	1.29	10035.00	3512250	1.91	95.39
	e 350 mm	Meter	200	6307.00	1261400	0.90	11918.00	2383600	1.29	88.96
	f 400 mm	Meter	30	7708.00	231240	0.17	13500.00	405000	0.22	75.14
45	Providing, lowering, laying, aligning, fixing in position in pipe line, manually operated CI D/F Sluice valves of approved make (IS: 14846 amended upto date) PN 1.0 class of following dia complete (excluding jointing and jointing material) including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
	a 150 mm Dia -category "A"	Unit	10	10651.00	106510	0.08	14380.00	143800	0.08	35.01
	b 200 mm Dia -category "A"	Unit	4	17589.00	70356	0.05	23745.00	94980	0.05	35.00
	c 250 mm Dia -category "A"	Unit	7	26300.00	184100	0.13	35505.00	248535	0.13	35.00
	d 300 mm Dia -category "A"	Unit	13	35681.00	463853	0.33	48170.00	626210	0.34	35.00
	e 350 mm Dia -category "A"	Unit	5	83180.00	415900	0.30	112293.00	561465	0.30	35.00
	f 400 mm Dia -category "A"	Unit	2	100518.00	201036	0.14	135700.00	271400	0.15	35.00
46	Providing and fixing SS strainer Cylindrical type for out let of pipe as per specifications.-350 mm size	Unit	9	26113.00	235017	0.17	40905.00	368145	0.20	56.65
47	Providing and Fixing MS Clamps for fixing CI D/F pipe verticals of all diametres etc., Complete as per specifications.	kg	5450	48.00	261600	0.19	76.00	414200	0.22	58.33

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
48	Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint PN-1.0 (suitable for sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning as per Technical Specifications and as per direction of Engineer.					0	0.00	0	0.00	
a	150 mm Dia	Unit	10	3948.00	39480	0.03	700.00	7000	0.00	-82.27
b	200 mm Dia	Unit	4	5435.00	21740	0.02	1307.00	5228	0.00	-75.95
c	250 mm Dia	Unit	7	7368.00	51576	0.04	1628.00	11396	0.01	-77.90
d	300 mm Dia	Unit	13	8421.00	109473	0.08	2076.00	26988	0.01	-75.35
e	350 mm Dia	Unit	5	9555.00	47775	0.03	3251.00	16255	0.01	-65.98
f	400 mm Dia	Unit	2	12890.00	25780	0.02	3280.00	6560	0.00	-74.55
49	All flanged Tee's, Puddle collors, bellmouths, bends , flanged spigots both long and short peices, double flanged pipes, double flange reducers etc., complete suitable for CI pipes for various sizes of pipe lines as per specifications.	kg	20000	48.00	960000	0.69	83.00	1660000	0.90	72.92
50	Providing and laying of PVC water stopper of 230mm wide 8 mm thick for construction joints as per specification and requirements at site and as directed by the engineer.	meter	5000	300.00	1500000	1.07	350.00	1750000	0.95	16.67
51	Providing and laying of GI water stopper of 150 mm wide 18 guage for construction joints as per specification and requirements at site and as directed by the engineer.	meter	5000	160.00	800000	0.57	65.00	325000	0.18	-59.38
52	Providing, fabricating and erecting GI pipe 20 mm class B Hand railing for Walkway, top dome slab, staircase as per drawings and specifications	meter	1550	450.00	697500	0.50	161.00	249550	0.14	-64.22
53	Providing,fabribating and erecting MS ladder of 450mm wide made of 65 x 65 x 6mm angle iron and 20mm MS bars for walk way to top of the ESR with three coats of anti corrosive paint as per drawings and specifications	meter	75	800.00	60000	0.04	1561.00	117075	0.06	95.13
54	Providing,fabribating and erecting Aluminum ladder of 450mm wide inside the tank portion as per specification and as approved by engineer.	meter	95	1250.00	118750	0.08	1250.00	118750	0.06	0.00
55	Providing & Fixing Cast Iron vent pipe 150 mm dia with stainless steel mosquito proof jali as per drawing etc., complete	Unit	66	4000.00	264000	0.19	1034.00	68244	0.04	-74.15
56	Providing and fixing water level indicator upto 5m height including MS enameled gauge plate , Copper float of 150mm dia., providing and fixing required accessories such as pointer , pulleys,SS rope including cost of all materials,labour etc., as per drawing complete	Unit	11	7500.00	82500	0.06	10000.00	110000	0.06	33.33
57	Providing and hoisting and fixing in position MS manhole frame and cover of best quality of 600mm x 600mm clear size with locking arrangement including applying two coats of anti corrosive paint etc., complete as per drawings and specifications.	Unit	11	4000.00	44000	0.03	2500.00	27500	0.01	-37.50
58	Providing and fixing in position lightening conductor of copper bar of 25mm dia. and 2m long connected by a aluminum strip of 25mm wide and 3mm thick and strip shall be connected to a 600mm x 600mm x 3mm thick Copper plate embeded below ground in earthing pit with 40mm dia. GI pipe , the earthing shall comply IS 3043 as per drawings and specifications etc., complete	Unit	11	10000.00	110000	0.08	14500.00	159500	0.09	45.00

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
59	Providing and fixing wire mesh 25x25x16 guage anchored on all sides on angle frame of 25 x 25 x 3 mm with intermediate MS angle supports including providing and fixing mosquito proof steel jali etc. as per drawings and specifications complete.	SqM	315	1050.00	330750	0.24	501.00	157815	0.09	-52.29
60	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :1:4:8 (1 Cement : 4 fine/ coarse sand : 8 graded stone aggregate 40 mm nominal size).				0	0.00		0	0.00	
		Cum	100	2099.85	209985	0.15	2000.00	200000	0.11	-4.76
61	Providing and laying damp proof course with cement concrete grade M-150 (1:2:4) mortar prepared with 1% solution of water proof compound) including two coats of hot blown bitumen (2 kg. per sqm) complete as per specification with glass strip 3 mm thick at a distance of 1m interval 100 mm thick.				0	0.00		0	0.00	#DIV/0!
		Sq. M	32	165.00	5280	0.00	3572.00	114304	0.06	2064.85
62	Random rubble masonry with hard stone in superstructure above plinth level and upto two stories,including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with at window sills, ceiling level and the like :Cement mortar 1:6 (1 cement : 6 coarse sand)				0	0.00		0	0.00	
		Cum	232	2027.85	470461.2	0.34	1492.00	346144	0.19	-26.42
63	Centering & shuttering with plywood or steel sheets including strutting, propping, bracing bothways with wooden members and removal of formwork for superstructure upto 4.5m height above plinth level forsuspended floors, roofs, landings, staircases, balconies, girders, cantilevers, bands, copings, bed plates, anchor blocks, sills, chhajjas etc.				0	0.00		0	0.00	
		Sq.M	174	172.50	30015	0.02	49.00	8526	0.00	-71.59
64	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto two stories excluding the cost of centring, shuttering, finishing and reinforcement with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).				0	0.00		0	0.00	
		Cum	20	3538.80	70776	0.05	5205.00	104100	0.06	47.08
65	Reinforcement for R.C.C. work at all levels including straightening, cutting, bending, placing in position and binding all complete.Hot rolled deformed bars.	Kg.	2235	42.25	94428.75	0.07	62.00	138570	0.08	46.75
66	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).				0	0.00		0	0.00	
		cum	6	2888.95	17333.7	0.01	3324.00	19944	0.01	15.06

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
67	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top /centre hung with beading and all members such as K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and rivetted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding the cost of metal beading and other fittings except necessary hinges or pivots complete as per approved design.				0	0.00		0	0.00	
		kg	125	183.35	22918.75	0.02	1900.00	237500	0.13	936.27
68	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works. With 10 mm sq bar				0	0.00		0	0.00	
		Kg.	3505	54.85	192249.25	0.14	76.00	266380	0.14	38.56
69	Supplying and fixing fixed wire gauge of 14 mesh x 24 gauge to the metal frame of rolled section by metal beading 20 x 3mm with suitable screw at not exceeding 150mm distance.				0	0.00		0	0.00	
		Sq.M	14	185.00	2590	0.00	500.00	7000	0.00	170.27
70	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters. 80x1.25mm M.S. laths with 1.25 mm thick top cover.									
		Sq.M.	10	1251.35	12513.5	0.01	2000.00	20000	0.01	59.83
71	Providing and fixing 50mm. Dia. G.I. Medium 'B' class railing with two horizontal pipes and 1.5Mtr. Long vertical pipe 1.5 Mtr. Centr to centre with all accessories, like elbows, tees etc., includingwelding threading and embedding in cement concrete 1 : 2 : 4 block of size 30 x 30 x 40 cm. with 2nos. angle iron 25 x 25 x 5mm size holdfast complete as per drawings.				0	0.00		0	0.00	
		M	9.6	590.00	5664	0.00	686.00	6585.6	0.00	16.27
72	Supplying and fixing stone lintels / bed plates of approved quarry rough dressed in cement mortar 1:4 above 15 cm. Thick.				0	0.00		0	0.00	
		Cum	0.4	1900.00	760	0.00	49000.00	19600	0.01	2478.95
73	Half brick masonry with F.P.S. brick of class designation 75 in foundations and plinth in :cement mortar 1:4 (1 cement : 4 coarse sand)				0	0.00		0	0.00	
		Sq.M.	6	250.00	1500	0.00	236.00	1416	0.00	-5.60

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
74	62 mm thick cement concrete flooring with concrete hardener topping under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume. Hardening compound is mixed @ 2 litre per 50kg of cement or as per manufactures specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.				0	0.00		0	0.00	
		Sq.M	82	287.89	23606.98	0.02	4149.00	340218	0.18	1341.18
75	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding, panelling which will be paid for separately.35 mm thick	Sq.M.	8	1726.50	13812	0.01	4100.00	32800	0.02	137.47
					0	0.00		0	0.00	
76	Providing and fixing fully panelled double leaf shutters for windows and ventilators as per approved design and drawings with approved steel fittings as per annexure 'A' and width of styles and bottom and top rails 75mm including beading of 25mm x 15mm size on both faces 35mm thick M.P. Teak Wood grade-I - Wire gauge 24 x 14 mesh of IS designation 85 gauge wire of dia 0.56mm panels. for Front Door	Sq.M.	4.8	1540.00	7392	0.01	3000.00	14400	0.01	94.81
77	Providing and fixing flush door shutters non decorative type (hollow core construction) with internal frame of Ist grade wood having styles and top rails of 100mm width & bottom and lock rails of 150mm width with 3nos. Cross battens of 50mm. Thick width using 4mm thick commercial ply on both faces of shutters & 6mm thick beading of respective wood using with approved steel fittings as per annexure 'A' 35mm thick MP Teak wood frame. Door - Toilet & Duty room.				0	0.00		0	0.00	
		Sq.M.	8.2	1000.00	8200	0.01	2600.00	21320	0.01	160.00
78	Providing and fixing upto two stories precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 Cement : 3 fine sand) on exposed surfaces complete.				0	0.00		0	0.00	
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	12	1860.00	22320	0.02	3289.00	39468	0.02	76.83
79	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finished 20mm thick.				0	0.00		0	0.00	
	Inside / out side	Sq.M.	1841	95.15	175171.15	0.13	1193.00	2196313	1.19	1153.81
					0	0.00		0	0.00	
80	Distemping with dry distemper of approved brand and manufacture (two or more coats) and of required shade on new work, over and including priming coat of whitening to give an even shade.				0	0.00		0	0.00	
		Sq.M.	373	31.00	11563	0.01	116.00	43268	0.02	274.19

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
81	Providing corrugated asbestos cement 6mm thick sheet roofing and fixing with GI, J or L-hooks, bolts and nuts 8mm dia GI plain and bitumen washers complete excluding the cost of purlines, rafters and trusses : Upto 60° pitch	m ²	8	288.00	2304	0.00	200.00	1600	0.00	-30.56
82	Structural steel work in single section fixed without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete above plinth level upto 4.5 mtr height. In flats, tees, angles and channels.	Kg	20	45.60	912	0.00	76.00	1520	0.00	66.67
83	Providing and fixing Electric fittings for two 32A socket point, one light & tubelight and one 16A plug socket points , full complete job including cost of cables, electric fittings, labour etc.of approved quality, make & design as directed by the engineer	Lumsum	1	1500.00	1500	0.00	12000.00	12000	0.01	700.00
84	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.				0	0.00		0	0.00	
		Sq.M.	250	58.35	14587.5	0.01	125.00	31250	0.02	114.22
85	Painting with ready mix paint of approved brand and manufacture in all shades to give an even shade : New steel work (two or more coats).				0	0.00		0	0.00	
		Sq.M.	48	10.00	480	0.00	70.00	3360	0.00	600.00
86	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 dia	Mtr..	24	166.25	3990	0.00	150.00	3600	0.00	-9.77
87	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.				0	0.00		0	0.00	
a	110 mm Coupler	each	2	105.90	211.8	0.00	135.00	270	0.00	27.48
b	Single tee with door 110x110x110 mm	each	2	271.60	543.2	0.00	315.00	630	0.00	15.98
c	Bend 87.5° of 110 mm bend	each	2	139.80	279.6	0.00	140.00	280	0.00	0.14
d	Shoe (Plain) 110 mm	each	2	274.10	548.2	0.00	280.00	560	0.00	2.15
88	Providing, hoisting and fixing precast reinforced concrete, nominal mix 1:2:4 (1 cement : 2 sand : 4 stone aggregate graded 12.5mm nominal size) in string courses, coping, bed plates, anchor blocks, sills, mouldings as in cornices etc. including finishing and rendering in cement mortar 1:3 (1 cement : 3 fine sand) including cost of shuttering, curing etc. complete, excluding cost of steel, upto a height of 4.5Mtr. above plinth level.				0	0.00		0	0.00	
		Cum	1.0	1860.00	1860	0.00	3289.00	3289	0.00	76.83
89	Providing and laying lime Dhar only '100 mm thick average on roofs on ground floor with 1:2:2:2 (1 lime putty : 2 surkhi or sand : 2 old 'lime mortar powder : 2 stone 'grit)mix by volume (Jaipur practice) as per specifications.				0	0.00		0	0.00	

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
		Sq.M.	87	172.00	14964	0.01	200.00	17400	0.01	16.28
90	Providing and fixing Unplasticised -PVC pipe clips of approved design to Unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. for 110 mm dia	Each	12	95.30	1143.6	0.00	250.00	3000	0.00	162.33
91	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern 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 580x440mm with integral type foot rests.	Each	1	2463.45	2463.45	0.00	3440.00	3440	0.00	39.64
92	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 :White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap. each 1,381.50	Each	1	1381.50	1381.5	0.00	2160.00	2160	0.00	56.35
93	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 453x357mm	Each	1	475.10	475.1	0.00	650.00	650	0.00	36.81
94	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall of 15 mm dia	RMT	60	108.80	6528	0.00	130.00	7800	0.00	19.49
95	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall of 25 mm dia	RMT	8	180.70	1445.6	0.00	249.00	1992	0.00	37.80
96	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work :15 mm dia. nominal bore	RMT	10	93.40	934	0.00	130.00	1300	0.00	39.19
97	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931. 15 mm nominal bore.	Each	2	326.20	652.4	0.00	151.00	302	0.00	-53.71
98	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore.	Each	4	326.20	1304.8	0.00	316.00	1264	0.00	-3.13
99	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 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	Litre	1000	5.05	5050	0.00	7.00	7000	0.00	38.61
100	Providing laying and jointing glazed SW pipes Grade `A' (IS: 651 marked) of approved make with spun yarn & stiff mixture of cement mortar 1:1 excavation and refilling of earth in all types of soil upto 1.2m depth, SW fittings, including testing of joints etc. complete. 100 mm dia.	MTR.	20	95.00	1900	0.00	115.00	2300	0.00	21.05

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
101	Providing & Laying C.C. 1:5:10 (Stone aggregate 40mm nominal size) upto haunches of S.W. pipes including 150mm thick bed concrete as per Rajasthan P.W.D. specifications :- (Width W = Dia of pipe in Cm + 40 Cm.) concrete width to be reduced from width W at centre of pipe to '0' at top of pipe. 100mm dia S.W.pipe.	MTR.	20	85.00	1700	0.00	300.00	6000	0.00	252.94
102	P & F Sand - cast Iron (S.C.I.) Pipe (IS : 1729 mark) of approved make in wall or in floor with M.S. holder bat clamps in 10 x 10 x 10 Cm. M-15 grade concrete blocks, joints filled with CM 1:4 with spun yarn including cutting holes and making good the wall : 50mm dia.	MTR.	6	205.00	1230	0.00	554.00	3324	0.00	170.24
103	P & F Sand - cast Iron (S.C.I.) Pipe (IS : 1729 mark) of approved make in wall or in floor with M.S. holder bat clamps in 10 x 10 x 10 Cm. M-15 grade concrete blocks, joints filled with CM 1:4 with spun yarn including cutting holes and making good the wall : 100mm dia.	MTR.	2	220.00	440	0.00	628.00	1256	0.00	185.45
104	P & F S. C.I. Fittings (IS : 1729 mark) in CM 1:4 spun yarn. 50mm w/o door	Each	2	78.00	156	0.00	300.00	600	0.00	284.62
105	P & F S. C.I. Fittings (IS : 1729 mark) in CM 1:4 spun yarn. 100mm w/o door	Each	4	125.00	500	0.00	300.00	1200	0.00	140.00
106	P & F Sand - cast Iron Floor Trap (Nahni) of (IS : 1729 mark) of approved quality / make with socket down or hinged grating including cutting and making good the floor : Size 100 x 50 mm.	Each	2	100.00	200	0.00	538.00	1076	0.00	438.00
107	P & F on wall face AC pipes (IS : 1626 Part-I mark) of approved make with wooden plugs and M.S. clamps, jointing with spun yarn soaked in bitumen and CM 1:2 complete including making good the wall : 75 mm dia	MTR.	10	60.00	600	0.00	50.00	500	0.00	-16.67
108	P & F AC fittings (IS : 1626 Part - I mark) of approved quality/make with spun yarn soaked in bitumin & CM 1:2, 75mm dia. AC Cowel	Each	2	25.00	50	0.00	50.00	100	0.00	100.00
109	Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :W ith F.P.S. bricks	Each	1	3321.15	3321.15	0.00	3500.00	3500	0.00	5.39
110	Construction of septic tank in all types of soil with 40 cm. Thick masonry in CM 1:6, 15 cm thick CC bed of 1:5:10, M-15 grade CC flooring & over stone slab covering, 80 mm thick slab, jointing of slab, in CM 1:3 Ralthal, Kharanja, 50 mm thick stone partition walls, 20 mm thick plaster, in CM 1:6 finished with neat floating cement, 4 Nos. CI foot rests of approved design, Two No. 450 mm dia 25 kg. each CI cover with frame, earth work etc complete as per approved drawing. including disposal of surplus earth within a lead of 50 Mtr :- Size 200 x 100 x 130 cm. (for 10 users)	Each	1	7000.00	7000	0.01	20000.00	20000	0.01	185.71

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
111	Construction of soakage well in all types of soil 300 mm thick dry stone masonry, top and bottom 300 m course in CM 1:6, 80 mm thick stone slab, jointing of slab in CM 1:3, Ralthal, Kharanja 40 mm thick M-15 grade CC flooring, earthwork complete as per approved drawing including disposal of earth within a lead of 50 Mtr :- Size 240 cm. dia outside & 240 cm. depth.	Each	1	3300.00	3300	0.00	11500.00	11500	0.01	248.48
112	Construction of open surface drain with 112mm thick brick masonry in CM 1:4 , 100 mm thick base concrete 1:5:10 37mm thick M-15 grade CC flooring, 12mm 1:4 cement plaster on all exposed faces of wals including top surface excavation and disposal of surplus earth complete as per approved design/drawings 112mm drain, 225mm Average depth	Mtr.	15	120.00	1800	0.00	150.00	2250	0.00	25.00
113	Wiring for light point with 1.5 Sq.mm. PVC insulated aluminium conductor cable (IS : 694) of category II and approved make, in recess PVC conduit not less than 2mm thick including laying of bare aluminium conductor size 2.24 mm dia, conduit fittings, switch, ceiling rose/bakelite holder, round tiles, 18 SWG metal box with 3mm sunmica sheet with bakelite base making connections etc. as required. Short Point (0 to 3 Mtr.)	P.point	9	64.00	576	0.00	800.00	7200	0.00	1150.00
114	Wiring for light point with 1.5 Sq.mm. PVC insulated aluminium conductor cable (IS : 694) of category II and approved make, in recess PVC conduit not less than 2mm thick including laying of bare aluminium conductor size 2.24 mm dia, conduit fittings, switch, ceiling rose/bakelite holder, round tiles, 18 SWG metal box with 3mm sunmica sheet with bakelite base making connections etc. as required. Medium Point (up to 6 Mtr.)	P.point	7	110.00	770	0.00	900.00	6300	0.00	718.18
115	Wiring for light point with 1.5 Sq.mm. PVC insulated aluminium conductor cable (IS : 694) of category II and approved make, in recess PVC conduit not less than 2mm thick including laying of bare aluminium conductor size 2.24 mm dia, conduit fittings, switch, ceiling rose/bakelite holder, round tiles, 18 SWG metal box with 3mm sunmica sheet with bakelite base making connections etc. as required. Long Point (up to 10 Mtr.)	P.point	8	159.50	1276	0.00	1500.00	12000	0.01	840.44
116	Wiring for fan/exhaust fan point with 1.5 Sq.mm. PVC insulated aluminium conductor cable (IS : 694) of category II and approved make, in recessed PVC conduit pipe including laying the earthing bare aluminium conductor of size 2.24 mm dia, conduit fittings, ceiling rose, fan hook, round tiles 18 SWG metal box with 3mm sunmica sheet with bakelite base making connections etc. as required, Medium Point (upto 6 mtr.).	P.point	2	121.00	242	0.00	1500.00	3000	0.00	1139.67
117	Wiring for 3 pin 15 amp. power plug point with 4 Sq.mm. PVC insulated aluminium conductor cable (IS : 694) of category II and approved make in recessed PVC conduit pipe not less than 2mm thick including laying the earthing bare aluminium conductor of size 2.24 mm dia, conduit fittings, 15 amp. switch, 5 pin 15 amp. socket, 18 SWG sheet metal box 3mm sunmica sheet with bakelite base making connections etc. as required, Short Point (upto 3 mtr.).	P.point	4	99.00	396	0.00	1500.00	6000	0.00	1415.15

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
118	Wiring for circuit/submain wiring with following sizes of insulated aluminium conductor single core cable (IS : 694) of category II and approved make in recessed PVC conduit pipe not less than 2mm thick conduit fittings including laying the earthing bare aluminium conductor of size 2.24 mm dia, making connections etc. as required, 2 x 1.5 Sq. mm.	MTR.	120	17.00	2040	0.00	350.00	42000	0.02	1958.82
119	Wiring for circuit/submain wiring with following sizes of insulated aluminium conductor single core cable (IS : 694) of category II and approved make in recessed PVC conduit pipe not less than 2mm thick conduit fittings including laying the earthing bare aluminium conductor of size 2.24 mm dia, making connections etc. as required, 2 x 2.5 Sq. mm.	MTR.	40	18.00	720	0.00	400.00	16000	0.01	2122.22
120	P & F sheet for TW boxes or CI boxes including making holes for switches etc. with brass washers and screws complete as required. Bakelite sheet 6 mm thick.	SQM.	0.50	1100.00	550	0.00	5000.00	2500	0.00	354.55
121	P & F recessed type fan box of sheet hexagonal/round 150 mm (6") dia 75 mm depth.	Each	3	30.00	90	0.00	500.00	1500	0.00	1566.67
122	Providing and fixing 5 amp. Flush type switch IS:3854 marked including cutting hole in tile and making connection as required. Category III.	Each	5	9.00	45	0.00	500.00	2500	0.00	5455.56
123	Providing and fixing 3/5 pin 5 amp. flush type socket IS:1293 marked including making hole in tile and making connection as required. Category III.	Each	5	10.00	50	0.00	500.00	2500	0.00	4900.00
124	Providing and fixing 15 amp. Flush type switch IS:3854 marked including cutting hole in tile and making connection as required. Category II.	Each	4	27.50	110	0.00	600.00	2400	0.00	2081.82
125	Providing and fixing 3/5 pin 15 amp. flush type socket IS:1293 marked including making hole in tile and making connection as required. Category III.	Each	3	22.00	66	0.00	625.00	1875	0.00	2740.91
126	Supply and fixing bulk head fitting including brass/ porcelain bracket holder of approved quality suitable for 100 watts lamp complete with making connection etc. as required. Category II.	Each	2	110.00	220	0.00	1200.00	2400	0.00	990.91
127	Providing and fixing single pole and Neutral 240 V metal clad 're-wireable porcelain fuse units 'including making connections etc. complete, in the rating '32 A/ 240 V. Category III.	Each	1	250.00	250	0.00	630.00	630	0.00	152.00
128	Providing and fixing 240/ 415 V 9 KA breaking capacity AC MCB's on existing boards/ sheets including 'making connection etc. as required 'Single pole MCB's of rating : (ii) 5A to 32A Category III.	Each	3	88.00	264	0.00	675.00	2025	0.00	667.05
129	Earthing with G.I. earth plate 300 mm x 300 mm x 6 mm thick including accessories embodying by digging 3 to 4 mtrs. below the ground level and refilling with 6 to 10 alternate layers of salt & charcoat and providing masonry enclosure with cover plate and watering pipe with funnel etc. as per IS:3043 complete as required.	Each	1	990.00	990	0.00	5500.00	5500	0.00	455.56
130	Supplying and laying earth conductor from electrode to source in ground/floor/wall/ on iron saddles etc. as required including making connections duly soldered or crimped 10 SWG Copper wire.	MTR.	8	13.00	104	0.00	5500.00	44000	0.02	42207.69

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
131	P & F standard box type fluorescent tube fitting fabricated from CRCA sheet steel and finished with stove enamel paint gray outside and white inside complete with accessories like copper wound polyester choke, starter sheet, rotor holders & terminal block for connection duly pre-wired with copper conductor (without tube) including connections etc. as required : 1 x 40 Watts Category III.	Each	8	300.00	2400	0.00	1200.00	9600	0.01	300.00
132	P & F fluorescent type tube-light rod in existing fixture : 40 Watt Category III.	Each	8	32.00	256	0.00	140.00	1120	0.00	337.50
133	Providing and laying PVC insulated & PVC sheathed cable of 1.1 KV grade with aluminium conductor of IS : 1554 Category - II and approved make including excavation of 30cm x 75cm size trenches. As per IS 1255, 25cm thick under layer of sand IInd classes brick covering, refilling earth in the remaining portion, making necessary connections including testing etc. as required, of size : 10.00 Sq. mm. 4 core.	MTR.	25	85.00	2125	0.00	700.00	17500	0.01	723.53
134	P & F ceiling fan of approved make complete with regulator and all its accessories like suspension system, canopy cotter pin etc. as required. (for estimation purposes and not for including in Schedule 'G') :- 1200 mm sweep.	Each	3	910.00	2730	0.00	2000.00	6000	0.00	119.78
135	Supplying and fixing of following sizes of PVC conduit pipe not less than 2 mm thick in recessed with cutting the wall / roof in regular shape and size, making good the same including the cost of all necessary accessories including laying of bare aluminium conductor of sizes 2.24mm dia making connections etc. as required. 25 mm.	MTR.	120	20.00	2400	0.00	95.00	11400	0.01	375.00
136	P & F surface type teak wood board with varnish and antitermite treatment including fixing guties etc. complete as per size 150 mm x 75 mm	Each	2	6.50	13	0.00	325.00	650	0.00	4900.00
137	P & F surface type teak wood board with varnish and antitermite treatment including fixing guties etc. complete as per size 200 mm x 250 mm	Each	3	22.00	66	0.00	475.00	1425	0.00	2059.09
138	Supplying and fixing in position frame made out of M.S. angle (riveted or welded) including one coat of red oxide paint and two coats of enameled paint with required finishing/repairs etc. as required : 25mm x 25mm x 3mm.	MTR.	1.5	35.00	52.5	0.00	700.00	1050	0.00	1900.00
139	Supplying and fixing M.S. flat by riveting or welding on existing frame including making required holes and one coat of red oxide paint and two coats of enameled paint etc. as required : 25mm x 3mm.	MTR.	1.5	15.50	23.25	0.00	200.00	300	0.00	1190.32
140	Supplying and drawing PVC insulated solid single core copper conductor 1100 Volts grade IS(694) of Category II and approved make in existing metallic or PVC conduit pipe surface or recessed including making connections etc. as required. 2 x 1.5 sqmm.	MTR.	20	10.80	216	0.00	375.00	7500	0.00	3372.22
141	Providing & fixing of exhaust fan single phase 457mm (18") IS : 2312 marked in the existing opening with angle iron frame (where as required) making good the damages, testing including making connection etc. as required 1400 RPM heav y duty Category I	Each	2	3950.00	7900	0.01	2700.00	5400	0.00	-31.65

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
142	Providing and fixing 240 / 415 V 6 / 9 KA breaking capacity A.C. M.C.B's. on existing board / sheets including making connections etc. as required . T riple Pole M.C.B.s of rating 5A to 32A category I	Each	3	506.00	1518	0.00	650.00	1950	0.00	28.46
143	Providing & fixing street light luminair in position suitable for HPMV lamp integrated control gear comprising of heavy duty copper wound ballast, condensor and porcelain terminal block prewired with PVC wire in copper conductor. The canopy is to be covered with clear acrylic cover adequately gasketed with one piece dia. cast aluminium body and crome nickel plated reflector complete with testing and making connection etc. as required 1 x 125 W att Category - I	Each	4	1845.00	7380	0.01	5850.00	23400	0.01	217.07
144	Providing & fixing of heavy duty copper wound ballast in position with all necessary T & P including removal of old ballast for Mercury vapour lamps 125 Watt	Each	4	360.00	1440	0.00	2350.00	9400	0.01	552.78
145	Providing & fixing weather proof street light fixture on existing bracket suitable for flourscent lamp, made out from CRCA sheet steel finished with stove enameled paint, having deep drawn aluminium alloy canopy reflector cum control gear tray, clear ribbed acrylic diffuser held with synthetic gasket, with all necessary accessories copper wound ballst, condensor, starter, holder, prewired with PVC wire in copper conductor including making connection and testing etc. as required (without tube) 2 x 40 watt category- I	Each	4	1350.00	5400	0.00	2650.00	10600	0.01	96.30
146	Providing & fixing of bracket made out 'A' class G.I. Pipe 19mm dia in required size and shape fixed with M.S. clamps and nut bolts etc. as required.	M	10	60.00	600	0.00	2450.00	24500	0.01	3983.33
147	Supply, Installation, Testing and Commissioning of Centrifugal Pumps with corresponding energy efficient electric motor, base plate and all accessories for following discharge & total head as per detailed specifications & as directed by the engineer.				0	0.00		0	0.00	
a	15 LPS Discharge & 55 m Total Head at 1450 RPM	Nos	2	76000.00	152000	0.11	180670.00	361340	0.20	137.72
b	70 LPS Discharge & 32 m Total Head at 1450 RPM	Nos	1	370600.00	370600	0.26	402670.00	402670	0.22	8.65
c	35 LPS Discharge & 32 m Total Head at 1450 RPM	Nos	2	254300.00	508600	0.36	265691.00	531382	0.29	4.48
d	55 LPS Discharge & 35 m Total Head at 1450 RPM	Nos	2	355000.00	710000	0.51	318830.00	637660	0.35	-10.19
148	Supply, Installation, Testing and Commissioning of Electrical Starter Panels for pumping stations as per detailed specifications, SLD, drawings and as directed by the engineer.				0	0.00		0	0.00	
a	Panel for operating 2 nos of 10-15 KW Motor & 2 nos. of 25-40 KW motor	Nos	1	45000.00	45000	0.03	249600.00	249600	0.14	454.67
b	Panel for operating 1 nos of 25 - 40 KW Motor	Nos	1	69000.00	69000	0.05	186000.00	186000	0.10	169.57
c	Panel for operating 2 nos of 15 - 20 KW Motor	Nos	1	55000.00	55000	0.04	106250.00	106250	0.06	93.18
149	Supply, Laying, Testing, & Commissioning of 3.5 core armoured PVC cables 1.1 KV rating as per IS 1554 inclusive of terminals, connectors, cable glands, etc. as applicable and as directed by the engineer.				0	0.00		0	0.00	
a	70 mm ²	RM	100	350.00	35000	0.03	425.00	42500	0.02	21.43
b	25 mm ²	RM	100	256.00	25600	0.02	225.00	22500	0.01	-12.11

Item No.	Description	Unit	Quantity	Engineer's Estiamte			M/s SMC Infrastructures Private Limited (Lead Partner) JV with M/s GKC Project Limited			% Variation from Engineer's Estimate
				Unit Rate	Amount	% of works	Unit Rate	Amount	% of work	
C	16 mm ²	RM	100	203.00	20300	0.01	185.00	18500	0.01	-8.87
150	Dismantling of Existing Pumpset, baseplate, valves, piping etc. and transportation of all dismanteled material upto PHED store and handing over to PHED etc. complete job as directed by the engineer.	Each Job	3	1000.00	3000	0.00	37500.00	112500	0.06	3650.00
151	Construction of Pump Foundation Block in M:20 grade Cement Concrete nominal mix (with graded 20mm nominal size stone aggregate) including all cost of material, labour, shuttering T&P, foundation bolts etc. as per detailed specifications, drawings and as directed by the engineer.	cum	10.5	246.00	2583	0.00	12500.00	131250	0.07	4981.30
152	Designing, Supply, Installation, Testing and Commissioning of MS Pipes & Specials which includes providing Epoxy Paint to internal & external surfaces of 250 microns DFT to all MS pipes and specials. Pipe work includes tapers, specials, flange joints, pipe and valve support concrete blocks, and other minor civil works etc. required as per detailed specifications & as directed by the engineer.	Kg	2500	70.00	175000	0.13	80.00	200000	0.11	14.29
153	Supply, Installation, Testing and Commissioning of PN - 1.0 rating CI/ Flanged Foot Valves ISI marked as per detailed specifications & as directed by the engineer of the following dia.				0	0.00		0	0.00	
	250 mm dia	Nos	3	25155.00	75465	0.05	14000.00	42000	0.02	-44.35
154	Supply, Installation, Testing and Commissioning of 150 mm dia bourden type Pressure Gauges complete with siphon U tube, isolating cock, C-class heavy duty 15 mm GI Pipe & brought out on wall for observation at place directed by engineer. Range 0 to 8 kg/cm ² as per detailed specifications & as directed by the engineer.	Nos	7	1320.00	9240	0.01	3500.00	24500	0.01	165.15
155	Earthing of panel board using G.I. clamp of size 50mm wide x 6 mm thick welded on casing pipe of TW and copper wire of 8 SWG. This includes excavation of trench, all hardware and material as per detailed specification & as directed by the engineer.	Nos	3	1265.00	3795	0.00	15000.00	45000	0.02	1085.77
156	Providing, laying and fixing float valve system of following dia of C.I. with internal partsof auxiliary valve of copper float ball, gunmetal ball cap, brass lever, brass split pin, gunmetal piston & piston cap, washer of nitrile rubber with gunmetal body including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer.				0	0.00		0	0.00	
a	200 mm	Nos	2	46596.00	93192	0.07	6000.00	12000	0.01	-87.12
b	250 mm	Nos	2	60595.00	121190	0.09	7000.00	14000	0.01	-88.45
c	300 mm	Nos	2	75115.00	150230	0.11	8500.00	17000	0.01	-88.68
	Total cost in (Rs) (A)				139879091	100.00		184,192,422	100.00	31.68
	Discount (in Rs.)							5,829,374	3.16	
	Discounted Net amount							178,363,048	96.84	27.51
	Discount during Negotiations (in %)							0.5	0.00	
	Discounted Negotiated Net amount							177,471,232	96.35	26.87
	Provisional Sum (For third party inspection, shifting of utilities etc.)							2,000,000		
	Total Provisional Sum Cost (Rs) (B)				2000000			2,000,000		
	Total Cost in (Rs) (A+B)				141879091			179,471,232		