

**BHARAT HEAVY ELECTRICALS LIMITED
RAMACHNADRAPURAM UNIT, HYDERABAD
(Township Administration)**

Schedule-A Price Bid

Tender Notice No.

:HY/TA/OT-08/2021-22, Dated: 11.08.2021

Name of Work: Cleaning of all drainage Lines, chambers , manholes of different sizes etc and other repair works inside township area- Rate contract.

S.No	Description	QTY	Unit	Rate (Rs)	Amount (Rs.)
1	2	3	4	5	6=3*5
1	Cleaning of Inspection Chamber / Manholes of different sizes, and diameters, silt, sand, root from Chambers and waste materials to be removed and disposal upto 10 Meters etc complete as directed by the Engineer-in-charge.				
a	for Inspection Chambers upto 1.0 Mt Depth.	768	Nos.	270.81	207981.31
b	for man holes chamber from 1.0 Mt upto 2.0 Mt	208	Nos.	592.19	123174.48
c	for man holes chamber upto 2.0 Mt to 4.0 Mt	80	Nos.	592.19	47374.80
d	for man hole chambers above 4.0 Mt.	65	Nos.	592.19	38492.03
2	Cleaning of Gully Traps of different sizes and diameters, silt, sand, root from gully traps and waste materials to be removed and disposal upto 10 Meters etc complete as directed by engineer-in-charge.	100	Nos.	280.00	28000.00
3	Cleaning of external Sewerlines SWG/RCC Line of different Diameters. With bamboos / roding by using rope with knots, the line should be clear with all organic materials etc including roots, removal of silt, obstructed sludge with required tools, removal of silt sand, material came from the manholes, disposal upto lift upon a distance of 2 KM or suitable place as				
a	a) 4" dia SWG line cleaning	180	Rmt	9.63	1732.50
b	b) 6" dia SWG line cleaning	1750	Rmt	12.84	22464.75
c	c) 8" dia SWG/RCC line cleaning	500	Rmt	19.26	9630.50
d	d) 9" dia SWG/RCC line cleaning	339	Rmt	19.26	6529.48
e	e) 12" dia SWG/RCC line cleaning	150	Rmt	28.90	4334.55
f	f) more than 12" dia SWG/RCC line cleaning	7	Rmt	381.70	2671.90
4	Hire Charges for Providing Suction cum Jetting sewerage Cleaning Machine as per Technical Specification along with safety equipment viz mask, Oxygen Cylinder, gloves, rope ladder, venella rope, body suit, torch light, first aid box and helmet, hydraulic cover lifter, Flash light for night time. Man hole cleaner, silt grabber, caution board, providing seven (7) nos. of working personnel, driver-cum-operator and supervisor including hire charges of mini truck, fuel lubricants, labour charges for loading, unloading, transportation of silt removed from the manholes and to work Eight (8) hours in one shift for attending sewer cleaning of sewer mains in lanes, sub lanes including preventive maintenance of sewer lines and as directed by the Engineer-in-charge.	8660	Rmt	13.30	115178.00

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1	2	3	4	5	6=3*5
5	Earth work in excavation by mechanical means (hydraulic excavator) manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be	95	Cu.m	129.35	12288.25
6	Earth work in excavation by mechanical means (hydraulic excavator) manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed..... HARD ROCK	10	Cu.m	197.75	1977.50
7	Filling available excavated earth (excluding rock) in trenches, plinth sides of founding each deposited layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead upto 50m and lift up to 1.5.,.	75	Cu.m	83.80	6285.00
8	Supply and Stacking of Moorum	2	Cu.m	624.45	1248.90
9	Brick work with FPS bricks of class designation 75 in foundation and plinth in:				
a	cement mortar 1:4(1cement :4 coarse sand)	5	Cu.m	3058.25	15291.25
b	cement mortar 1:6(1cement :6 coarse sand)	8	Cu.m	3005.05	24040.40
10	12mm thick cement plaster of mix (In fine sand)				
a	1:4(1 cement 4 fine sand)	3	Sq.m	96.15	288.45
b	1:6 (1 cement: 6 fine sand)	2	Sq.m	94.50	189.00
11	15mm thick cement plaster on the rough side of single or half brick wall of mix				
a	1:4(1 cement 4 fine sand) (in coarse Sand)	2	Sq.m	126.25	252.50
b	1:6 (1 cement: 6 fine sand)	3	Sq.m	122.45	367.35
12	20mm thick cement plaster of mix (In Fine sand)				
a	1:4(1 cement 4 fine sand)	2	Sq.m	131.15	262.30
b	1:6 (1 cement 6 fine sand)	2	Sq.m	128.15	256.30
13	12 mm thick cement plaster of mix :				
a	1:6 (1 cement: 6 coarse sand)	2	Sq.m	103.05	206.10
14	20mm thick cement plaster of mix (In Coarse sand)				
a	1:4(1 cement 4 coarse sand)	2	Sq.m	144.15	288.30
b	1:6 (1 cement 6 coarse sand)	52	Sq.m	141.50	7358.00
15	Providing and fixing square mouth SW gully trap grade :A: complete with CI grating brick masonry chamber with water tight CI cover with frame of 300x300mm size (inside) the weighing of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design (RCC cover in places of CI cover): 100x100 mm size P type: With common burnt clay F.D.C (non modular) bricks of class designation 7.5	5	Nos.	1121.35	5606.75

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1	2	3	4	5	6=3*5
16	Providing and laying and jointing glazed stoneware pipes grade "A" with stiff mixture of cement mortar in the proportion of 1:1 (1 cement 1 fine sand) including testing of joints etc. complete				
	a 100 mm diameter	10	mts	139.25	1392.50
	b 150 mm diameter	10	mts	202.90	2029.00
	c 200 mm diameter	10	mts	301.40	3014.00
	d 250 mm diameter	2	mts	419.15	838.30
	e 300 mm diameter	3	mts	565.50	1696.50
17	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 10mm gap for thermal expansion (i) single socketed pipes				
	a 75mm diameter	3	Mts	124.90	374.70
	b 110mm diameter	5	Mts	206.90	1034.50
18	Dismantling of the existing specials and Supplying & Fixing Prince / Sudhakar make or equivalent approved quality (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.				
	a 75 mm dia plain bend.	235.00	Each	103.30	24275.50
	b 75 mm dia plug bend.	230.00	Each	59.75	13742.50
	c 75 mm dia off-set.	50.00	Each	162.55	8127.50
	d 75 mm dia Single 'Y' with door.	30.00	Each	95.29	2858.84
	e 75 mm dia pipe clip.	20.00	Each	12.75	255.00
	f 75 mm dia single tee with door.	15.00	Each	206.70	3100.50
	g 110 mm dia plain bend.	210.00	Each	155.70	32697.00
	h 110 mm dia plug bend.	175.00	Each	95.75	16756.25
	i 110 mm dia Single 'Y' with door.	60.00	Each	152.50	9150.00
	j 110 mm dia Double 'Y' with door.	10.00	Each	206.25	2062.50
	k 110 mm dia off-set.	140.00	Each	285.80	40012.00
	l 110 mm dia vent cowl.	20.00	Each	15.75	315.00
	m 110 mm dia pipe clip.	100.00	Each	14.75	1475.00
	n 110 mm dia single tee with door.	25.00	Each	299.55	7488.75
	o 110 mm dia coupler.	1.00	Each	129.00	129.00
19	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work upto plinth level				
	a 1:1 1/2:3(1 cement 1 ^{1/2} coarse sand :3 graded stone aggregate 20mm nominal size)	2	Cu.m	2904.95	5809.90
	b 1:2:4 (1cement 2:coares sand 4 grade stone aggregate 20mm nominal size)	3	Cu.m	2914.05	8742.15
20	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering shuttering finishing and reinforcement All work up to plinth level				

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	a 1:1.5:3(1cement 1.5 coarse sand 3 grade stone aggregate 20mm nominal size)	3	Cu.m	3094.85	9284.55
	b 1:2:4(1cement 2 coarse sand 4 grade stone aggregate 20mm nominal size)	8	Cu.m	3103.90	24831.20
21	Reinforcement for RCC work including straightening (Steel will be free issued), cutting bending placing in position and binding all complete.				
	a Cold twisted bars	15	Kgs	7.37	110.55
	b Hot rolled deformed bars	3	Kgs	7.37	22.11
22	Conveyance by Manual or Mechanical means of Lime, Murram, building Rubbish including loading unloading with lift of 50 m upto lead mentioned below all complete all as directed by Engineer in charge				
	a 1 Km	5	Cu.m	66.23	331.15
	b 2 Km	5	Cu.m	75.15	375.75
	c 3 Km	5	Cu.m	83.99	419.95
23	Demolishing concrete manually / by mechanical means including disposal of material within 50mtr lead as per direction of engineer in charge				
	a 1:3:6 or richer mix	1	Cu.m	671.05	671.05
	b 1:4:8 or leaner mix	3	Cu.m	413.65	1240.95
24	Demolishing brick work in cement mortar manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50mtr lead as per direction of engineer in charge	2	Cu.m	985.68	1971.36
25	Demolishing stone rubble masonry manually by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50mtr lead as per direction of engineer in charge in Cement mortar	2	Cu.m	676.05	1352.10
26	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with cement mortar 1:6(1cement 6 coarse sand)	2	Cu.m	2469.69	4939.38
27	Providing and laying non- pressure NP2 class (light duty) RCC pipes with collars joints with stiff mixture of cement mortar in the proportion of 1:2 (1 cement 2 fine sand) including testing of joints etc, complete				
	a 100 mm dia RCC pipe	1	mtr	215.85	215.85
	b 150 mm dia RCC pipe	1	mtr	251.50	251.50
	c 250 mm dia RCC pipe	1	mtr	337.95	337.95
	d 300 mm dia RCC pipe	10	mtr	417.40	4174.00
	e 450 mm dia RCC pipe	1	mtr	608.85	608.85
	f 500 mm dia RCC pipe	1	mtr	709.20	709.20
	g 600 mm dia RCC pipe	10	mtr	1068.25	10682.50
	h 700 mm dia RCC pipe	1	mtr	1228.55	1228.55
	i 800 mm dia RCC pipe	1	mtr	1394.70	1394.70
	j 900 mm dia RCC pipe	1	mtr	1654.35	1654.35

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1	2	3	4	5	6=3*5
28	Supply and fixing precast R.C.C. cover without frame following sizes				
a	30 cm x 30 cm	1	Nos.	148.45	148.45
b	45 cm x 45 cm	1	Nos.	185.55	185.55
c	60 cm x 60 cm	1	Nos.	727.36	727.36
d	45 cm x 60 cm	1	Nos.	593.76	593.76
e	60 cm x 90 cm	1	Nos.	890.65	890.65
29	Supply and fixing precast R.C.C. cover with frame following sizes				
	45cm x 90 cm	1	Nos.	1113.31	1113.31
	60cm x 90 cm	1	Nos.	1335.96	1335.96
30	supply and fixing Circular shape 600mm dia precast R.C.C. manhole cover with frame	1	Nos.	1781.29	1781.29
31	Constructing 914.4 mm x 457.2 mm (3'0"x1'6") brick in CM 1:6 prop. Masonry Inspection chamber up to 914.4 mm (3'0") and fitted with lightweight 914.4 mm x 457.2 mm (3'0"x1'6") RCC cover.	2	Nos.	4949.00	9898.00
32	Conveyance by Manual or Mechanical means of Lime, Murram, building Rubbish including loading unloading with lift of 50 m upto lead mentioned 5 km below all complete all as directed by Engineer in charge	50	Cu.m	570.00	28500.00
					9,83,129.40

Tender %	In words	Figures
Excess		
Less		
Estimate		

Notes:

1	Only Cement is Free Issue from BHEL, remaining all other materials are in contractor scope.
2	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work.
3	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.
4	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.
5	Contract Period of the work is 12 Months. The maintenance period of the work is Six Months
6	All the terms & conditions of the contract with respect to Taxes & Duties are subject to the new taxation laws introduced from time to time (e.g., GST). The terms & conditions will be modified in accordance with the provisions of new laws (e.g., GST)