

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD-32
(TOWNSHIP ADMINISTRATION)
PART - B - PRICE BID

Name of work :- Laying of G.I.Pipe Line to NH-IV & NH- III Area for supply of Manjeera Water.

Sl.No.	Description	Qty	Unit	Unit Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth. including disposal of excavated earth, within a lead of 50 m and lift up to 1.5 m disposed earth to be levelled and neatly dressed for all kind of soils all as directed by Engineer-in-charge.	300.00	cu.m.	101.85	30555.00
2	Hard Rock cutting by using of chiesels and hammers etc. over areas (exceeding 30 cm in depth. including disposal of excavated rocks, within a lead of 50 m and lift up to 1.5 m disposed rock to be levelled and neatly dressed etc. complete all as directed by Engineer-in-charge.	5.00	cu.m.	325.25	1626.25
3	Felling trees of the girth (measured at a height of 1 meter above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material etc. complete all as directed by Engineer-in-charge.				
a	Beyond 30cm girth up to and including 60cm girth	5.00	no.	81.70	408.50
b	Beyond 60cm girth up to and including 120cm girth	5.00	no.	359.80	1799.00
c	Beyond 120cm girth up to and including 240cm girth	5.00	no.	1658.85	8294.25
4	Providing & fixing G.I. Pipe complete specials and fittings, including trenching and refilling etc. for G.I. pipes and G.I.fittings (external work) . Work including jointing with sockets/nut& bolts , welding of flanges to non threaded pipes and testing of pipes including cost of jointing materials i.e. White Lead, Jute, Rubber Packing and Cotton Thread etc complete in all respect as directed by Engineer-in-charge. Note- i) G.I.Pipes, will be issued free of cost from BHEL Stores. ii) Supply, conveying and fixing of all necessary specials and fitting materials including Specials, Flanges, Bolts, Nuts and Washers etc. is under contractors' scope only.				
a	200 mm dia. G.I.Pipe	1007.00	meter	174.36	175580.52
b	150 mm dia. G.I.Pipe	2140.00	meter	111.82	239293.09
c	100 mm. dia. G.I.Pipe	885.00	meter	70.48	62374.80
d	80 mm dia. G.I.Pipe	1130.00	meter	46.35	52375.50
e	50 mm dia. G.I.Pipe	1082.00	meter	35.34	38237.88
f	40 mm dia. G.I.Pipe	195.00	meter	34.00	6630.00
g	20 mm dia. G.I.Pipe	5000.00	meter	27.28	136400.00
h	15 mm dia. G.I.Pipe	3000.00	meter	26.77	80310.00
5	Conveying of G.I.Pipes from BHEL Stores (upto 2 km.distance) to site including cost of loading, un-loading, lowering of pipes & its fitting in to trenches, cutting and threading wherever necessary, aligning etc. complete in all respect as directed by Engineer-in-charge. (G.I.Pipes except specials & fittings will be issued free of cost from BHEL Stores).				
a	200 mm dia. G.I.Pipe	21.75	tonne	100.28	2181.09
b	150 mm dia. G.I.Pipe	34.67	tonne	75.21	2607.53
c	100 mm. dia. G.I.Pipe	9.56	tonne	50.14	479.34
d	80 mm dia. G.I.Pipe	9.76	tonne	40.11	391.47
e	50 mm dia. G.I.Pipe	5.59	tonne	40.11	224.21
f	40 mm dia. G.I.Pipe	0.71	tonne	40.11	28.48
g	20 mm dia. G.I.Pipe	12.30	tonne	40.11	493.35
h	15 mm dia. G.I.Pipe	3.69	tonne	40.11	148.01
6	Providing and fixing of 300 / 250 / 200 mm dia C.I. Sluice valve by conveying from the place of issue in Township on existing water main including supply and fixing of required bolts, nuts, rubber packing and other misc. materials required at site to fix the sluice valve. But earth work and refilling will be paid separately in the other item for taking of this work etc complete all as directed by Engineer-in-charge.				
	for 200mm. Dia- classA	1.00	each	6731.80	6731.80
	for 250mm dia- class A	1.00	each	10013.80	10013.80
	for 300 mm dia -class A	1.00	each	12270.50	12270.50

Sl.No.	Description	Qty	Unit	Unit Rate	Amount
7	Providing & fixing of a 300 / 250 / 200 mm dia C.I 'Tee' on the existing C.I. water line of 300 / 250 / 200 mm dia including cost of pig lead, hemp yern and all other misc. materials etc complete all as directed by Engineer-in-charge. Note: Material cost is under contractors' scope with fitting & fixing.	1.00	each	100.25	100.25
8	Dismantling manually or by mechanical means of bituminous roads including stacking of serviceable material and disposal of unserviceable material within 50 metres lead etc complete all as directed by Engineer-in-charge	120.00	sq.m.	106.20	12744.00
9	Plain Cement Concrete 1:1.5:3 mix using 20 mm guage down graded hard granite metal including curing, cost of all materials etc., complete all as directed by Engineer-in-charge. Note: Only cement will be issued free of cost from BHEL store.	18.00	cu.m.	1541.80	27752.40
10	Providing and fixing C.I.slucie valve (with cap) complete with bolts, nuts, rubber insertions etc.complete all as directed by Engineer-in-charge.				
a	150 mm dia. (class -I)	5.00	no.	3689.10	18445.50
b	100 mm dia. (class-I)	5.00	no.	2468.05	12340.25
c	80 mm dia. (class-I).	5.00	no.	2468.05	12340.25
11	Fixing in position of 15 mm dia. Brass bib cocks by making holes in walls with machine (Bib cocks will be supplied free of cost from Township divisional stores) including cost of jointing materials etc complete all as directed by Engineer-in-charge. (NH IV- 788, NH - III 936 no. qurts. , total 1724) Note: All fixing & cutting material cost is under contractor scope only. BHEL will only provide the Brass Bibcocks.	1724.00	no.	9.58	16515.92
12	Constructing masonry chamber 90 x 90 x 100 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 coarse sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 fine sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design with F.P.S bricks etc complete all as directed by Engineer-in-charge.	15.00	no.	4173.87	62608.05
	Add steel (mild steel reinforcement for RCC slab)	15.00			
13	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 coarse sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1cement : 3 fine sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design with F.P.S bricks etc complete all as directed by Engineer-in-charge.	1.00	no.	5684.95	5684.95
	Add steel (mild steel reinforcement for RCC slab)	1.00			
14	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc complete all as directed by Engineer-in-charge. (for road crossings). Note: RCC pipes along with its jointing material will be under contractor's scope only.				
a	150 mm dia. R.C.C.Pipe	50.00	per m.	199.72	9985.90
b	250 mm dia. R.C.C.Pipe	50.00	per m.	253.50	12675.10
c	300 mm dia. R.C.C.Pipe	100.00	per m.	333.01	33300.80
15	Plain cement concrete 1:5:10 mix using 40 mm guage and down graded machine crushed granite metal (60% of 40 mm, 30% of 20 mm 10% of 10 mm) in foundation and flooring including consolidation, curing and cost of all materials etc complete all as directed by Engineer-in-charge. Note: Only cement will be issued free of cost from BHEL store.	35.00	cu.m.	1401.00	49035.00
16	Conveyance of gravel / earth to an average distance of 3 kms from within premises of BHEL including loading / unloading from available stacks by excavating etc complete, as directed by Engineer-in-charge.	200	cu.m.	50.66	10132.00
17	Re-filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidation each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m etc compete all as directed by Engineer-in-charge.	300.00	cu.m.	45.70	13710.00

Sl.No.	Description	Qty	Unit	Unit Rate	Amount
18	Brick work in CM 1: 6 using ground moulded bricks for all thicknesses of walls including curing, cost of all materials etc. complete. (For repair of holes in wall at all heights) all as directed by Engineer-in-charge.	2.00	cu.m.	1795.50	3591.00
19	Plastering in cement mortar 1:4 (1 cement : 4 fine sand), 20 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge (For finishing of walls)	155.16	sq. m.	66.03	10244.87
20	Coursed Rubble masonry (first sort) with hard stone in foundation & plinth with cement mortar 1:6 (1cement 6 coarse sand)	10.00	cu.m.	1631.20	16312.00
21	Dismantling/Demolishing of items by manual or mechanical means and stacking them in 50 meter lead as per direction of the Engineer in-charge.				
a	Brick work in cement mortar	2.00	cu.m.	310.75	621.50
b	cement concrete work 1:3:6 or richer mix	2.00	cu.m.	368.45	736.90
c	RCC work including stacking of steels	2.00	cu.m.	537.55	1075.10
					1199406.12
Tender %	In words	In figures			
Excess					
Less					
Estimate					

1	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.
2	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time.
3	Service tax if paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax by the contractor.
4	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.
5	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.
6	The maintenance period of the work is 6 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.

Note:- Following materials will be issued free of cost from BHEL store-

- i) G.I. Pipes of 200mm,150mm,100mm,80mm,50mm,40mm,20mm,15mm etc. (except specials & fittings)
- ii) Brass Bibcocks (except fixture & fittings ,if any)
- iii) Cement / Steel