

MUNICIPAL CORPORATION OF BHILAI
NIT


कार्य का नाम— जोन क्र. 05 अंतर्गत वार्ड कं. 69 एवं 70 हुडको क्षेत्र में सीवरलाईन
संधारण कार्य।

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	Pumping out water caused by springs tidal or river seepage, broken water main or drains and like during Excavation or during Excavation and laying of base concrete (volume to be calculated taking height from water level to bottom of pit and to be measured and paid) .	370.2	Cum
2	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). Including dressing and leveling of pits. In all types of soil + Extra rate for quantity of work executed in or under water and/ or liquid mud including pumping out water	1122.8	Cum
3	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). Including dressing and leveling of pits. In all types of soil + Extra rate for quantity of work executed in or under water and/ or liquid mud including pumping out water. + Extra rate for quantity of work executed in or under foul condition	348.75	Cum
3	Extra for every additional lift of 1.5 m or part thereof.	54	Cum
4	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead but beyond 20m and disposal of unserviceable materials:		
	100 mm diameter	200.00	Mtr
	150 mm diameter	60.00	Mtr
	200 mm diameter	200.00	Mtr
5	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	24	Cum
	Demolishing cement concrete including disposal of material within 50 metre lead. 1:3:6	12.00	Cum
7	Carriage by mechanical transport upto 5 km lead: Earth 30% of all excavation & brick demolishing	336.84	Cum
9	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	108	Cum
11	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	39.5	Cum

12	Providing and constructing brick masonry chamber for underground pipe and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :	40	Each
13	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :	30.00	Each
14	DEDUCTION:- Providing and fixing in position precast circular 560mm internal dia SFRC/R.C.C. manhole cover or cover and frame of approved quality: Cover only EHD - 35	-30	Each
15	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size). +Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	9.00	Cum
16	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: Thermo-Mechanically treated bars FE 415	900.00	Kg
17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	576.00	Cum
	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 : 150 mm	50.00	Metre
As Per PHE SOR 01.06.2020			
18	Providing and Laying and Jointing salt glazed stone ware (S.W.) pipes socket and spigot with stiff cement mortar 1:1 including testing of joints complete		
	300 mm diameter	25.00	Metre
	250 mm diameter	45.00	Metre
	200 mm diameter	150.00	Metre
	100 mm diameter	200.00	Metre

19	Providing and laying cement concrete 1:5:10 (1 cement:5 fine sand: 10 graded stone aggregate 40 mm nominal size) around S.W. pipe including bed concrete 15 cm thick i/c curing, testing etc. complete for 100mm dia. to 300 mm dia pipe.(For type "Concrete Around")		
	300 mm diameter S.W. Pipe	25.00	Metre
	250 mm diameter S.W. Pipe	45.00	Metre
	200 mm diameter S.W. Pipe	200.00	Metre
	100 mm diameter S.W. Pipe	100.00	Metre
18	Providing and Laying non-pressure (NP2) RCC socket & spigot pipes with rubber gasket joint including testing of joints.		
	300 mm diameter	40.00	Metre
	250 mm diameter	10.00	Metre
	200 mm diameter	10.00	Metre
	150 mm diameter	10.00	Metre
18	labour for Providing and Laying non-pressure (NP2) RCC socket & spigot pipes with rubber gasket joint including testing of joints.		
	300 mm diameter	40.00	Metre
	250 mm diameter	10.00	Metre
	200 mm diameter	10.00	Metre
	150 mm diameter	10.00	Metre
19	providing, Laying & jointing non-pressure (NP2) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion 1:2 (1 cement : 2 sand) including testing of joints.		
	300 mm diameter S.W. Pipe	40.00	Metre
	250 mm diameter S.W. Pipe	12.00	Metre
	200 mm diameter S.W. Pipe	15.00	Metre
	150 mm diameter S.W. Pipe	20.00	Metre
19	labour for providing, Laying & jointing non-pressure (NP2) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion 1:2 (1 cement : 2 sand) including testing of joints.		
	300 mm diameter S.W. Pipe	40.00	Metre
	250 mm diameter S.W. Pipe	12.00	Metre
	200 mm diameter S.W. Pipe	15.00	Metre
	150 mm diameter S.W. Pipe	20.00	Metre

Assistant Engineer
Municipal Corporation
Bhilai


Sub Engineer
Municipal Corporation
Bhilai