

Name of Work : Providing and laying fire fighting line for ELC, Admin block , housing block, stores and parking lot at NCBS

TENDER NOTICE NO: NCBS/Maint(Civil) /599(1) /NIT-143 /2021 DT:22/02/2022

Schedule of Quantities

Sl no	Description of Item	Unit	Qty	Rate	Amount
A	EARTHWORK				
	Note for Earthwork: No working space shall be considered beyond the width of the foundation concrete (mud-mat) shown in the drawings. The contractor shall consider work- ing space if required while quoting the rate. The quoted rate shall include the quantity of earthwork to be done for working space if required and also for re-filling the foundation. For payment, the meas- urement shall be restricted only to the foundation width shown in the drawings. No extra shall be per- mitted and measured for payment on account of working space / battering / benching for excavation and refilling around foundation.				
1	Earthwork in excavation by mechanical means (hy- draulic excavator) / manual means for FOUNDATION TRENCHES in ALL KINDS OF SOILS including dressing of sides, ramming of bottom, disposing the surplus excavated materials within a distance of 50m and lift 1.50m complete as per specifications. (Disposed soil to be levelled by breaking clods if any and neatly dressed).	Cum	853.00		
Rate in words:					
2	Filling available excavated approved earth (excluding rock) in trenches, sides of foundations, plinth, etc; in layers not exceeding 15cm depth breaking clods, consolidating each deposited layer by ram- ming, watering and dressing, etc; complete for lead up to 50m and all lifts etc., complete as per specifications.	Cum	853.00		
Rate in words:					
3	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading,transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	20.00		
Rate in words:					
B	MASONRY				

Sl no	Description of Item	Unit	Qty	Rate	Amount
1	Providing and constructing BRICK MASONRY in cement mortar as per mixes stipulated below using approved well burnt bricks of class designation (Classification as per IS 1077-1986) as specified below including raking out joints 10mm deep, scaffolding, curing, etc; complete as per specifications IN SUPERSTRUCTURE UPTO FLOOR FIVE LEVEL. (The mix ratio specified is for cement : coarse M sand)Using bricks of class designation '3.5' (minimum average compressive strength not less than 3.5N/sqmm) in cement mortar 1:3	Cum	1.00		
Rate in words:					
C	PLAIN CEMENT CONCRETE				
1	Providing and laying cement concrete using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including formwork, compaction, finishing, plastering the concrete surface in CM 1:2 - 12mm thick, curing, etc; IN BED BLOCKS, ANCHOR BLOCKS, WINDOW,CILLS, COPING BLOCKS, etc; up to floor five level complete all as per specifications. Mix ratio specified is for cement : M sand : graded stone aggregate. The work includes providing throating/ drip mould wherever required as per standard engineering practice of size not be less than 40mm X 15mm. The rate is inclusive for making drip mould & no extra cost will be paid for.				
	PCC 1:1.5:3	Cum	1.50		
Rate in words:					
2	Providing and laying cement concrete using 20mm nominal size graded hard granite stone aggregate obtained from approved quarry including compaction, finishing top surface to level, curing, cost of formwork, etc; complete all as per specifications. Mix ratio specified is for cement : M sand: graded stone aggregate. In foundation and Plinth/Sub-base to floors.(PCC 1:3:6)	Cum	1.00		
Rate in words:					
3	Providing and laying cement concrete using 20mm nominal size graded hard granite stone aggregate obtained from approved quarry including compaction, finishing top surface to level, curing, cost of formwork, etc; complete all as per specifications. Mix ratio specified is for cement : M sand : graded stone aggregate. IN FOUNDATION.- PCC 1:1.5:3	Cum	5.00		
Rate in words:					

Sl no	Description of Item	Unit	Qty	Rate	Amount
D	STRUCTURAL & REINFORCEMENT STEEL				
1	Labour charges for Rectification of defects/damages on existing MS fire fighting pipe lines including cutting, hoisting, fixing in position, i/c fittings like elbow, tees, flanges, tapers, nuts bolts, gaskets etc., and anticorrosive with asphalt tape as per IS 10221, Bed blocks, applying red oxide zinc chromate primer and painting with two coats of synthetic enamel paints, nuts as necessary at all heights as directed by EIC	RMT	19.00		
Rate in words:					
E	FLOORING				
1	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material with lead as per direction of Engineer-in-Charge.	Sqm	110.00		
Rate in words:					
2	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including cost for 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	Sqm	110.00		
Rate in words:					
3	Removing and Refixing of Grass pavers laid on the firmly levelled earthen base including proper compaction using mechanical ramming etc., and as directed by EIC.	Sqm	150.00		
Rate in words:					
F	FINISHING				
1	Plastering 12mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceilings, etc; complete all as per specifications for heights up to 10m above GL, mix specified is for cement : M Sand. NOTE: CM 1:3 OR CM 1:4 are generally applicable for ceilings and RCC surfaces unless otherwise specified. -with CM 1:3	Sqm	5.00		
Rate in words:					
G	ROAD WORKS				

Sl no	Description of Item	Unit	Qty	Rate	Amount
1	Cutting full grout macadam (FGM) road surfaces including W.B.M and soling and making good the same inclusive of cost of supplying of bitumen and extra quantities of granite stone metal, gravel, etc; and re-rolling, etc; complete all as per specifications.	Sqm	30.00		
Rate in words:					
H	MAINTENANCE -DISMANTLING				
1	Demolishing cement concrete 1:3:6 or richer mix including disposal of material with in 50 m lead.	Cum	6.00		
Rate in words:					
2	Dismantling of existing fire fighting hydrant pipe line including necessary cutting of pipe, making good for the new pipe laying etc., complete all as per specifications and as directed by Engineer In charge.	Rmt	50.00		
Rate in words:					
I	PH WORKS				
1	Supply of DI Socket/spigot pipe conforming to IS-8329 and bearing ISI Mark and suitable for Tyton joints of CLASS K-9 of 150mm dia including cost of material, transportation etc., complete all as per specifications and as directed by Engineer Incharge etc., complete.				
	150mm dia DI pipe	Rmt	442.00		
Rate in words:					
2	Supply of DI Double flanged pipes conforming IS:8329 and bearing ISI mark with internal cement mortar lining - CLASS K-9 of 80mm dia including cost of material, transportation etc., complete all as per specifications and as directed by Engineer Incharge etc.,complete.	Rmt	20.00		
	80mm dia DI Pipe				
Rate in words:					
J	EXTERNAL WATER SUPPLY WORKS				
1	Lowering and Laying in trenches or fixing in ducts / shafts cast Iron spigot and socket/ flanged pipes/ ductile iron pipes along with specials to correct grade, level and alignment keeping them in position, cutting of pipes wherever necessary etc. all as specified and directed by Engineer Incharge etc.,complete.	Rmt	442.00		
Rate in words:					
2	Making tyton joints (rubber gasket joints) to CI socket and spigot pipes / ductile Iron pipes and CI/DI all socketed specials with rubber gasket including labour charges and carryout leak test and hydraulic pressure testing the joints and pipes to minimum pressure of 10ksc as per specifications.	Each	85.00		
Rate in words:					

Sl no	Description of Item	Unit	Qty	Rate	Amount
3	Making flanged joints to CI/DI flanged pipes and specials including cost of jointing materials such as 3mm thick rubber insertion sheet, bolts, nuts, plate washers of required sizes given below and labour charges testing the joints to required pressure, all as specified and directed.				
	150mm dia (with 8 bolts & nuts 20mm dia 65mm long)	Each	30.00		
Rate in words:					
4	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required :	Each	11.00		
Rate in words:					
5	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :				
5a	80 mm Dia	Each	11.00		
Rate in words:					
5b	150 mm Dia	Each	3.00		
Rate in words:					
6	Supplying and fixing Double Hose box to accommodate 2 lengths of 15m 63mm fire hose, 1 nozzle, hose reel drum, hammer and key.	Each	11.00		
Rate in words:					
7	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required of Gun metal	Each	22.00		
Rate in words:					
8	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required of gun metal.	Each	11.00		
Rate in words:					

Sl no	Description of Item	Unit	Qty	Rate	Amount
9	Construction of valve chamber of size 900X900mm, 1200mm deep comprising of 230mm thick brick walls using first class country brick walls in CM 1:5 over a bed of 200mm thick PCC 1:4:8 concrete with 75mm projections all-round beyond the masonry faces, plastered with CM 1:3, mixed with waterproofing compound as per manufacturer's specifications 12mm thick on internal, external, top surfaces and internal and top exposed surfaces finished smooth with a floating coat of neat cement, providing and fixing painted CI frame and cover of size 600X600mm weighing not less than 75kg with locking arrangements fixing the frame in CC1:2:4 including cost of necessary steel reinforcement, fabricating the necessary steel reinforcement, form work, curing, etc, complete all as specified and directed.	Each	3.00		
Rate in words:					
10	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required- 150 mm dia	Rmt	50.00		
Rate in words:					
				Total Amount Rs.	
				Total Amount say Rs.	
Note: The contractor shall quote his rates in this schedule of quantity. Submission of tender in any					

Amount in words:

Signature of contractor: