

MAHINDRA WORLD CITY , JAIPUR					
BOQ FOR SEWERAGE NETWORK WORKS -DTA-II PHASE-1					
Sr. No.	Description	Unit	Qty	Rate	Amount (Rs.)
1	Excavating trenches of required width for pipes, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then refilling the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
a)	Pipes, exceeding 80 mm dia, but not exceeding 300 mm dia for depth upto 1.50 m	Rmtr	430		-
b)	Extra for excavating trenches for pipes, in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m.	Rmtr	102		-
c)	Extra for excavating trenches for pipes, in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m.	Rmtr	R/O		
	Crossing of pipe through road and SWD				
2	Laying of sewer line with 150 mm dia non pressure NP3 class medium duty R.C.C pipes with Spigot and socket jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement :2 fine sand) including testing of joints etc. including 100 mm M10 concrete bedding conforming to relevant I. S. Specification jointing with rubber ring, cutting of road by mechanical/manual means , Transportation of pipe, laying true to alignment, haunching, backfilling & compacting and testing as per standard specifications etc., all complete as per drawing issued and to the satisfaction of Project incharge. (Applicable for road crossing) (RCC Pipes shall be issued free of cost by MWCI based on reconciliation as approved by Engineer-in-charge).	Rmtr	24.9		-
3	laying the following dia uPVC pipes class SN 8, SDR-34, confirming to IS 15328-2003 and relevant specials including packing the joints with rubber /lubricant fixing ,holding wherever necessary and making good of the dismantled portion with necessary connections etc., complete in all respects and as per drawing. (uPVC Pipes shall be issued free of cost by MWCI based on reconciliation as approved by Engineer-in-charge).				
a)	150 mm diameter	Rmtr	532		-
3	Constructing of circular type CC pre cast manhole bottom I.D. 1200 mm x top I.D. 560 mm x 1.68 to 2.29 meter deep S.F.R.C cover with frame (heavy duty,HD-20 grade designation) confirming to I.S 12592,, total weight of cover and frame to be not less than 182 kg. M40 grade pre cast CC ring 125 mm thickness 300mm height, M40 grade RCC eccentric top conical ,150 mm thick foundation concrete 1:4:8 mix (1 cement :4 coarse sand : 8 and making necessary 200 mm thick benching for CC precast ring and suitable size of channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, fixing of pre cast cc ring joints with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, including earth work excavation and refilling with the excavated earth after completion of the work necessary water proofing, ferrocement foot rest, and centering, shuttering etc. all complete as per as per drawing (Sulphate resistant cement should be used for all cement works)	Each	14		-
4	Constructing of circular type CC pre cast manhole and S.F.R.C cover with frame (heavy duty,HD-20 grade designation) confirming to I.S 12592,, total weight of cover and frame to be not less than 182 kg. M40 grade pre cast CC ring 125 mm thickness 300mm height, M40 grade RCC eccentric top conical ,150 mm thick foundation concrete 1:4:8 mix (1 cement :4 coarse sand : 8 and making necessary 200 mm thick benching for CC precast ring and suitable size of channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, fixing of pre cast cc ring joints with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, including earth work excavation and refilling with the excavated earth after completion of the work necessary water proofing, ferrocement foot rest, and centering, shuttering etc. all complete as per as per drawing (Sulphate resistant cement should be used for all cement works)				
a)	Constructing of circular type CC pre cast manhole bottom I.D. 1500 mm x top I.D. 560 mm x 2.3 to 3.30 meter deep	Each	3		-
5	Providing and Installation PVC Insulated orange color MS safety foot rest of minimum 6 mm thick plastic ,encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mm x25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. (Foot Rest for Plot Manhole)	Each	120		-
6	Plain Cement Concrete bedding for sewer pipe joints (600 x600 x150 mm thick) with CC1:3:6 (one of Cement : three of Sand: six of hard broken stone jelly 20mm nominal size) including laying, curing, finishing etc. complete. Complying with relevant standard specification and as directed by the engineer incharge.	CUM	6		-
7	Supplying and fixing MS manhole ventilating shaft pipe of 200 mm at bottom and 100 mm at top to a height of 7.60 m confirming to IS 1239/3589 including earth work excavation, the cost for laying PCC in 1:2:4 using 20 mm hard broken stone over a finished layer of PCC 1:4:8 using 40 mm hard broken stone etc. complete as per drawing	Each	1		-
8	Constructing of flushing manhole as per IS:4111.2.1985 and as per the GFC drawing with all necessary arrangements and the connection to the existing manholes and repairs S.F.R.C cover with frame (heavy duty,HD-20 grade designation) confirming to I.S 12592,, total weight of cover and frame to be not less than 182 kg. M40 grade pre cast CC ring 125 mm thickness 300mm height, M40 grade RCC eccentric top conical ,150 mm thick foundation concrete 1:4:8 mix (1 cement :4 coarse sand : 8 and making necessary 200 mm thick benching for CC precast ring and suitable size of channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, fixing of pre cast cc ring joints with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, including earth work excavation and refilling with the excavated earth after completion of the work necessary water proofing, ferrocement foot rest, and centering, shuttering etc. all complete as per as per drawing (Sulphate resistant cement should be used for all cement works, necessary arrangement for connecting to the associated Manhole if required)	Each	3		-
TOTAL					-
GST 18%					-
GRAND TOTAL					-
Note:- 1 Rate should be inclusive of cess,all charges ,labour charges except GST, which shall be paid extra as applicable 2 Time is essence of the Contract. Work to be completed within 30 days. 3 Any extra Items /increase in qties. other than BOQ shall be pre-intimated before execution. Such Items shall be recorded in Site Instruction book and same shall be paid as per approval by Engineer-in Charge based on proper rate analysis (in case of extra items) by Contracts Deptt and the same shall be paid in final invoice.					