Section - VI Price BID BYPL NIT NO: CMC/BY/23-24/RS/SvS/VK/11 DT: 16.05.2023							
	: Laying of Sewerline at BSES Colony, Delhi				-		
5.No	Item Description	Unit	Quantity	Rate	Value ( Rs) Ex GST		
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) .as per direction of the engineer-in-charge.	Cum	549.45				
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.as per direction of the engineer-in-charge.	Cum	6,109.40				
3	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.All kinds of soil. as per direction of the engineer-in-charge.	Cum	1,172.60				
4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.In cement mortar .	Cum	419.51				
5	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources and using recycled concrete aggregate (RCA) as coarse aggregate and fine aggregate within the permissible utilization, Portland Pozzolana / Ordinary Portland/Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of eatra cement. All works upto plinth level Concrete Aggregate (RCA) as coarse aggregate is 100% each).	Cum	159.23				
6	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources and using recycled concrete aggregate (RCA) as coarse aggregate and fine aggregate within the permissible utilization, Portland Pozzolana / Ordinary Portland/Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design the mix or bear the cost of extra cement. All works upto plinth level Concrete of M20 grade with minimum cement content of 270 kg /cum. (Note: The permissible utilization of Recycled Concrete Aggregate (RCA) as coarse aggregate is 25% each).	Cum	423.50				
7	Filing available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. as per direction of the engineer-in-charge.	Cum	5,660.02				
8	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks 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 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation	Ea	95.70				
9	Extra for depth beyond 45 cm of brick masonry chamber : For 500x700 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 as per direction of the engineer-in-charge.	Mtr	52.64				
10	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), and making necessary 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, all complete as per standard design :0:91 m deep with S.F.R.C. cover and frame (heavy duty,HD-20 grade designation) 560 mm internal diameter con_x0002_forming to 1.S. 12592, total weight of cover and frame to be not less than 182 kg, fixed in cement 12:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 as per direction of the engineer-in-charge.	Ea	80.30				
11	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m With Sewer bricks conforming IS : 4885 .With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 as per direction of the engineer-in-charge.	Mtr	49.79				

					Value (Rs)
.No	Item Description	Unit	Quantity	Rate	Ex GST
12	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary 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, all complete as per standard design : 2.30 m deep with SFRC Cover and frame (heavy duty HD- 20 grade designation) 560 mm internal diameter conform, x005f_x005f_x005f_x002_ing to 1.5. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 ce ment : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) : With Sewer bricks conforming IS : 4885	Ea	19.80		
13	Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m : With Sewer bricks conforming IS : 4885	Mtr	33.66		
14	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 (1560-AR292) as per direction of the engineer-in-charge.	Cum	1,616.34		
15	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete DSR-2021-5.9.1	Sqm	220.00		
16	Providing and laying 60mm thick faciory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	687.50		
17	Providing & supplying of class SN 8 structured wall Polyethylene piping systems (Pipe with online/offline coupler and elastometric sealing ring) with non-smooth External Annular Surfaces (Double wall) for non-pressure underground sewerage & drainage application as per EN:13476-3 / IS:16098(Part-2)-2013 i/c all local and central taxes, transtortation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores etc. complete. 300 mm I.D.	MTR	1,232.00		
	Lowering, Laying and Jointing of class SN-8 structure wall (External Annular Corrugated & Smooth Internal Surface) Plyethylene piping and fitting with the help of coupler (online/offline) attaiched with one end of pipes, sliding over the elastometric sealing rubber ring placed on the specified vally of the corrugation at the spigot end, lowering the same into the trench, laying on the lower bedding (constructed at bottom of trenches) at prescribed gradient, depth & alignment, testing the water tightness of the joints, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detailed engineering, i/c carriage of pipes & fittings from stacks to the place of laying etc. as per direction of E-n-C. 300 mm I.D.	MTR	1,232.00		
	Providing at Site ISI Marked NP-4 class (Heavy duty) R.C.C. pipes HDPE Lining (2-3mm thick ) (heavy duty ) having stainless steel collar joint with rubber ring as per IS 458-2003 (rates for rubber rings are included ) into trenches in depths upto 1.5m, below ground level true to alignment, material testing etc. complete (for microtunnelling ) 6.1.1 600mm internal dia pipe.6.1.1.1 Providing at site ISI marked NP-4 markedNP-4 Class RCC pipe HDPE lining 3mm thick heavy duty having stainless steel collar joint with rubber ring as per IS 458-2003	MTR	825.00		
20	Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered).Depth exceeding 1.5 m but not exceeding 3 m	Sqm	1,470.70		
	Installation of product of pipe by micro tunnlling methood including concrete structural saft of sheet piles /RCC Retaining Wall /Well sinking /secant pilling as per respective site requirement (up to 100m installation length and 5m depth) all I/C as per the Ind STT :102-2018: Code of pactice for Micro tunneling for Slurry bases Microtunneling for Steel /RCC jacking pipes Suiting Indian Condition.above 450mm Dia upto 600mm Dia 2.7.3.2 Mixed strata 600mm dia , including making power supply arrengement etc complete.	MTR	600.00		
22	C/R Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 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 manufactures permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	Each	522.50		
	P/F on UPVC pipe (Type B) for sewerage system 110mm Dia as per IS code- Supplying and stacking & laying at site 90mm to45mm size stone aggregrate .	MTR Cum	2,200.00 261.80		
25	Supplying and stacking & raying at site Somm Gasimin size stone aggregate. Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 20 mm nominal dia Pipes.		1,320.00		
	C/R Providing and fixing 2.0m high MS sheet barricading with frame of angle 40X40X6 mm every post to be Welded with MS channel ISLC 100x50X6.4 mm Horizontal icl making of hole in the channel for providing in embedding of 16mm dia round torgue bars in the rod as per drawing & dirction engineer in charge	Rmt	3,872.00		
27	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)	Sqm	163.62		
28	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming CBR Value-20"	Cum	242.00		

O     Control     Current District     District <thdistrict< th="">     Distrit     Distrit</thdistrict<>						Value ( Pa)
matcade (WMM) specification including permissing the material with water al OMC in for all flashs, Bith, jurging in uniform layer with artificities is use back proceedings with of homework of the second social socice social socice social social social social social	.No	Item Description	Unit	Quantity	Rate	Value ( Rs) Ex GST
g <td>29</td> <td>macadam (WMM) specification including premixing the material with water at OMC in for all leads &amp; lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density, complete as per specifications and</td> <td>Cum</td> <td>181.50</td> <td></td> <td></td>	29	macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density, complete as per specifications and	Cum	181.50		
up to a las of 1 kilometrs, as per direction of Engineer-in-charge.     Cum     1930.0       Providing keys of RAGA In 150mm kilo ka 30mm din kunning sever line with earth filled in empty cement     Per Job     5.50       Providing keys of RAGA In 150mm kilo ka 30mm din kunning sever line with earth filled in empty cement     Shift     66.00       Here and running charge for Generator C3 5 KN     Shift     65.00        Butte and running charge for Generator C3 5 KN     Shift     65.00        Providing sever line and main hole with 2nos MS sheet form thick with angle ron frame and braces     Per Job     22.00       Providing and subtes and the severage on upstream side to be pumped with subtable nos and capacity of the with camp kinge notice device that the severage on upstrems to be required exerts to the pumped with subtable nos and capacity of the with camp kinge notice of the mainhole of the repute severage on upstrems to be required exerts to the pumped with subtable nos and capacity of the mainhole connection     Per Job     1.10       Providing and laying center concrete 1:5:10 (Leerner: 5 coarse sand : 10 graded stone aggregate 40 mm nominal the mainhole concreto:     MTR     2,000.00     1.00       Strick with with concrete 1:5:10 (Leerner: 5 coarse sand : 10 graded stone aggregate 40 mm nominal subtable of the sound and taking: 1.00 its of the sound anow its of the sound and taking: 1.00 its of	30	gradation set out in the specificaton with 6% binder content 80/100 or equivalent (by weight of total mix) with the aid of hot mix plant and paver finisher including rolling with road roller to achieve the required compaction and	Cum	60.50		
4     (MC) Edgi including removal of the same after completion of the work.     (MC)     (MC)     5.30       H lead numming charge for Generating submersible pump 15 Hp     Shitk     66.00       A Head numming charge for Generating submersible pump 15 Hp     Shitk     132.00       Demantling of manhole Induling AC. Cop slabs, CL cover with frame, including stacking of ucluit materials meat     Per Job     22.00       Phosing of existing seven line and main hole with 20x0. MS sheet form thick with agle ion fame and braces.     Per Job     22.00       Providing and shing coment costs and filing the monhole with entry or sement bag filing with earth up to suitable depth to avoid leakage the seven age on upstream side to be pumped with statule nosi and capacity of the manhole connection.     Per Job     1.10       Veakage mathesis comescion.     Sign     103.02     Per Job     1.00       Providing and laving coment concrete 1.5:10 (1 coment : 5 coarse sand : 10 graded store aggregate 40 mm nominal size (up to humches of SW, ppee including bed concrete as per standed degin: 100 mm diameter SW, pipe     MTR     2.200.00       9     Providing and alving coment concrete 1.5:0 (1 coment : 5 coarse sand : 10 graded store aggregate 40 mm nominal size (up to humches of SW, ppee including bed concrete as per standed degin: 100 mm diameter SW, pipe     MTR     1.012.00       0     Seven with forme monoball phricks of dass designati	31		Cum	198.00		
4 Here and running charge for of Dewatering submersible pump 15 lp Shit 132.00   Dismanting of manbie induding Stacking of useful materials near Partab Pertab 22.00   Phaging of existing sever line and main hole with 20x0 KS sheet form thick with angle ion frame and bracks shuthers to be manbie ital memory came thang filled up with carity or the shuther shut	32		Per Job	5.50		
Dismanting of manhole including, B.C., top stab, C.I., too ver with frame, including stacking of useful materials within an material within Son lead as per direction of Engineer-in-charge: Rectangular mathole 32.000 cm and 90 cm deep.     Per Job     22.00       Plagging of existing sever line and main hole with 2nos MS sheet 6mm thick with angle iron frame and braces shutters to be worked as the severage on upstream also to be pumped with valuable most and capacity of pumps till the work is completed points to be made for pumping of any leadage noticed in the manhole with entry centent bags filled up with earth provide the severage on upstream also to be pumped with valuable most and capacity of the manhole with earth plagded manhole. Necessary arrangements to be made for pumping of any leadage noticed in the mainhole at the plagded manhole. Necessary arrangements to be made for pumping of any leadage noticed in the mainhole at the resolute of the provide state of the plagded manhole. Necessary arrangements to be made for pumping of any leadage noticed in the mainhole at the resolute of the provideng and diving coment concrete 15:10 (1 cemment : 5 coarse sand : 10 graded stone aggregate 40 mm nominal the mainhole with common burnt day F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth it: Cum     MTR     1.002.00       9     Providing and diving coment concrete 15:10 (1 cemment : 5 coarse sand : 10 graded stone aggregate 40 mm nominal the fill (1 cemmert : coarse sand : 10 graded stone aggregate 40 mm nominal the fill (1 cemmert : coarse sand : 10 graded stone aggregate 40 mm nominal the fill (1 cemmert : coarse sand)     MTR     1.002.00       9     Providing and diving coment concrete 15:10 (1 cemmert : 5 coarse sand : 10 graded stone aggregate 40 mm nominal the fill (	33	Hire and running charge for Generator 62.5 KVA	Shift	66.00		
5   the and disposal of unserviceable materials within 30 m lead as per direction of Engineer-in-charge:   Per Job   22.00     Plagging of existing sever line and main hole with 2nos MS sheet 6mm thick with angle iron frame and braces shutters to be structed with wooden struts and filling the manihole with empty cennent bags filled up with earth up to subable depth to avoid leading of pruping of any tables and could be up to avoid bage of pruping of any tables and could be up to avoid bage of pruping of any tables and could be up to avoid bage of pruping of any tables and could be up to avoid bage of pruping of any tables and could be up the manihole of the subable depth as and charges the the result be required extent to the plagged manhole. Necessary arrangements to be made as per standard design 1:00 mm diameter 5W. pipe   Per Job   1.10     7   Neat Cennent punning   Spm   163.62   —     8   Providing and laying cenent concrete 1.5:10(1 cenent 1: 5 coarse sand 1:10 graded stone aggregate 40 mm nominal size) up to hunches of SW. pipes including bed concrete as per standard design 1:00 mm diameter SW. pipe   MTR   1,012.00     0   Brick work with common burnt dary FS. from modulant plots of classe signation 7.5 in foundation and glinthin:   Cum   10.12     1   Design of seven the from regulated to sould asgregate 40 mm nominal size of to hunch even the accountable of SW. Piper   MTR   1,02.00     2   Rick work with accountable to accore tas a per standard design calculation and glinthin:   Cum   10.12 <td< td=""><td>34</td><td>Hire and running charge for of Dewatering submersible pump 15 Hp</td><td>Shift</td><td>132.00</td><td></td><td></td></td<>	34	Hire and running charge for of Dewatering submersible pump 15 Hp	Shift	132.00		
shutters to be struited with wooden struts and filing the manhole with empty ement bags filied up with earth up   Per Job   1.10     6   pumption to avoid leading the severage on uppraven site to be propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explus in case of propuls of as a for explusion of the propuls of the set of the set of the propuls of the set of the set of the propuls of the set of the set of the propuls of the set of the propuls of the set of the propuls of the set of the set of the set of the set of the propuls of the set of the propuls of the set of the set of the propuls of the set of the set of the set of the set of the propuls of the set	35	the site and disposal of unserviceable materials within 50 m lead as per direction of Engineer-in-charge:	Per Job	22.00		
Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : 100 mm diameter S.W. pipe   MTR   2,200.00     9   Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse cand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : 300 mm diameter S.W. pipe   MTR   1,012.00     9   Providing and laying cement concrete 1:5:00 (1 cement : 5 coarse cand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : 300 mm diameter S.W. pipe   MTR   1,012.00     0   Brick work with common bunct lay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: to with sign of sever line in program reputated consultant and submission of design calculation and drawings to BYPY for Job   Job   1.00     10   Vetting   Grade of the disting of disting / blacing MS plate in between ISMB grade store stops of the disting / blacing MS plate in between ISMB grade store adjusted on cench tas of the rearragement store layed by plate of stops the cench disting / blacing MS plate in between ISMB grade store adjusted as per drawing stance MD payment will be made on sqn. Basis of face area of the supported by MS plate no each face of there arragement stare laying the brade store drawings or as directed by engineer -in-charge.   Sqm   1,182.50     Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with blutuminous bi	36	shutters to be strutted with wooden struts and filling the manhole with empty cement bags filled up with earth up to suitable depth to avoid leakage the sewerage on upstream side to be pumped with suitable nos and capacity of pumps till the work is completed sp as to keep reduce the pressure to be required extent to the plugged manhole. Necessary arrangements to be made for pumping of any leakage noticed in the mainhole or to replug in case of heav leakage. the steel shutters and the earth filled pvc cement bag shall be removed after completion of work and	Per Job	1.10		
step up to haunches of S.W. pipes including bed concrete as per standard design : 100 mm diameter S.W. pipe   MTR   2,200.00     9   Providing and laying cement concrete 1.5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal step up to haunches of S.W. pipes including bed concrete as per standard design: 300 mm diameter S.W. pipe   MTR   1,012.00     0   Brick work with common burn modular) bricks of class designation 7.5 in foundation and plinth in: Curm   10.12   10.12     1   Design of sever line from repatted consultant and submission of design calculation and drawings to BYPY for Vetting   Job   1.00     2   Recovery for using flyash Concrete in place of Specified Mix grade   Rate Cum   -     3   ISMB shall be strutted /prosped by 50 NB MS pipe at 1.5 m c/c //c runt and bolts, place in 50x50x6 upto depth of 2 m lower than excavation level of trench are upto design depth fixing /placing MS plate in between ISMB guide angle welded. MS plate to completed system i/c removal of entire arrangements frequired grad for get sever line in parts or in a whole (detail as per drawing attached ) the payment will be made on som. Basis of face area of the supported by MS plate no suttached ) the payment will be and on som. Basis of face area of the drawings or as directed by engineer-in-charge.   Curm   84.70     Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified rading, premixed with bituminous binder and filer, transporting the hot mx to work site by tippers, laying with paver finisher equigned with electronic sensor to the require	37	Neat Cement punning	Sqm	163.62		
9 ize) up to haunches of S.W. pipes including bed concrete as per standard design : 300 mm diameter S.W. pipe MIR I, JLL.00   0 Brick work with common burnt clap F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand) Iou   1 Design of sever line from reputated consultant and submission of design calculation and drawings to BYPY for Vetting Job 1.00   2 Recovery for using flyash Concrete in place of Specified Mix grade Rate Cum -   4 Making arrangement for shoring /support to sides of the trench by providing /driving/installation in position by driving of ISMB of size 300x140 @ the distance of 1.2 m /c with guide channels of angles iron of 50x50K upto depth of 2.1 mover than excavation level of trench or upto design dept fixing /falcing MS plate in between ISMB guide angle welded. MS plate having frame of MS plate of suitable length and width on each face of trench MS SI ISMB shall be strutted /propped by 50 NB MS pipe at 1.5 m /c / (r ut and bots, plates to join member etc. /r other arrangements required to completed system //c removal of entire arrangements affel at planing of sever line grade and the supported by MS plate no extra payment in any condition. All the above arrangements faile installed as per drawings or a sdirected by engineer-in-charge. Sqm 1,182.50   5 Providing and laving Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premised with bituminous binder and filler, transporting the hot mix to work site by tippers, laving with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per	38	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal				
0   Cement mortar 1:4 (1 cement : 4 coarse sand)   10:12     1   Design of sewer line from reputated consultant and submission of design calculation and drawings to BYPY for Vetting   Job   1.00     2   Recovery for using flyash Concrete in place of Specified Mix grade   Rate Cum   -     Making arrangement for shoring / support to sides of the trench by providing /driving/installation in position by driving of 15MB of size 300x140 @ the distance of 1.2m c/(v cit mtig uice channels of angles iron of 50x50% upto depth of 2 m lower than excavation level of trench or upto design depth fixing /placing MS plate in between ISMB guide angle welded. MS plate having frame of MS plate of suitable length and width on each face of trench MS ISMB shall be strutted / proped by 50 NB NS plate 1.5m c/// k cru tand bolts, plates to join member etc. i/c other arrangements required to completed system i/c removal of entire arrangements after laying of sewer line in parts or in a whole (detail as per drawing attached) the payment will be made on sqm. Basis of face area of the supported by MS plate no extra payment in any condition. All the above arrangement shall be installed as per drawings or as directed by engineer-in-charge.   Cum   84.70     4   Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified triking with paver finisher equiped with electronic sensor to the required grade, level and alignement and rolling with smooth   Cum   84.70     4   wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications of fingineer-in-Charge. 50 to 100 mm average comp	39		MTR	1,012.00		
1   Vetting   Job   1.00     2   Recovery for using flyash Concrete in place of Specified Mix grade   Rate Cum   -     4   Making arrangement for shoring / support to sides of the trench by providing /driving/installation in position by driving of ISMB of size 300x140 @ the distance of 1.2m c/c with guide channels of angles iron of 50x50x6 up to depth of 2 m lower than excavation level of trench or upto design depth fixing / placing MS plate in between ISMB guide angle welded. MS plate having frame of MS plate of suitable length and width on each face of trench MS   Sqm   1,182.50     3   ISMB shall be strutted / propped by 50 NB MS pipe at 1.5 m c/c i/c nut and bolts, plates to join member etc. i/c other arrangements required to completed system (/c removal of entire arrangements after laying of sewer line in parts or in a whole (detail as per drawing statched) the payment will be made on sqm. Basis of face area of the supported by MS plate no extra payment in any condition. All the above arrangement shall be installed as per drawing or as directed by engineer-in-charge.   Cum     4   Wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications of angles. To to user is by tipper. Jaying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.   Cum   84.70     4   wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and directing segaray unif fited on bintumen hoiler, cleaning and preparing	40	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	10.12		
Making arrangement for shoring / support to sides of the trench by providing /driving/installation in position by   Image: Content of the trench of the tr	41	Vetting		1.00		
driving of ISMB of size 300x140 @ the distance of 1.2m c/c with guide channels of angles iron of 50x50x6 upto depth of 2 m lower than excavation level of trench or upto design depth fixing /plate in between ISMB guide angle welded. MS plate having frame of MS plate of suitable length and withd no each face of trench MS ISMB shall be strutted /propped by 50 NB MS pipe at 1.5 m c/c i/c nut and bolts, plates to join member etc. i/c soft an whole (detail as per drawing attached) the payment will be made on sqm. Basis of face area of the supported by MS plate no extra payment in any condition. All the above arrangements after laying of sewer line in parts or in a whole (detail as per drawing attached) the payment will be made on sqm. Basis of face area of the supported by MS plate no extra payment in any condition. All the above arrangement shall be installed as per drawings or as directed by engineer-in-charge.Sqm1,182.50Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth 4 wheeled. Vioratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.Cum84.705Providing and applying Tack coat using hot straight run bitumen of grade 80/100 including heating the bitumen spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing t	42	Recovery for using flyash Concrete in place of Specified Mix grade	Rate Cum	-		
premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver   finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth   Cum   84.70     4   wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density,   Cum   84.70     complete as per specifications and directions of Engineer-in-Charge.50 to 100 mm average compacted thickness   Cum   84.70     swith bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight)   Sqm   1,210.00     5   Providing and applying Tack coat using hot straight run bitumen of grade 80/100 including heating the bitumen   Sqm   1,210.00     6   Providing and fixing square-mouth UPVC gully trap class SP-1 complete with C.I. grating brick masonry chamber   Sqm   1,210.00     6   inframe to be not less than 3.5Kg kg as per standard design: 160x100 mm size P type With common burnt clay F.P.S.   Each   95.70	43	driving of ISMB of size 300x140 @ the distance of 1.2m c/c with guide channels of angles iron of 50x50x6 upto depth of 2 m lower than excavation level of trench or upto design depth fixing /placing MS plate in between ISMB guide angle welded. MS plate having frame of MS plate of suitable length and width on each face of trench MS ISMB shall be strutted /propped by 50 NB MS pipe at 1.5 m c/c i/c nut and bolts, plates to join member etc. i/c other arrangements required to completed system i/c removal of entire arrangements after laying of sewer line in parts or in a whole (detail as per drawing attached) the payment will be made on sqm. Basis of face area of the supported by MS plate no extra payment in any condition. All the above arrangement shall be installed as per	Sqm	1,182.50		
5   spraying the bitumen with mechanically operated spray unit fitted on bnitumen boiler, cleaning and preparing the existing road surface as per specification. On WBM @ 0.76 Kg/sqm.   Sqm   1,210.00     Providing and fixing square-mouth UPVC gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 450 x450 mm size (inside) the weight of cover to be not less than 5 kg and frame to be not less than 3.5Kg kg as per standard design: 160x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5   Each   95.70	44	premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specificatons and directions of Engineer-in-Charge.50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight	Cum	84.70		
6   with water tight C.I. cover with frame of 450 x450 mm size (inside) the weight of cover to be not less than 5 kg and frame to be not less than 3.5Kg kg as per standard design: 160x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5   Each   95.70     Total Amount	45	spraying the bitumen with mechanically operated spray unit fitted on bnitumen boiler, cleaning and preparing the existing road surface as per specification. On WBM @ 0.76 Kg/sqm.	Sqm	1,210.00		
	46	with water tight C.I. cover with frame of 450 x450 mm size (inside) the weight of cover to be not less than 5 kg and frame to be not less than 3.5Kg kg as per standard design: 160x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	95.70		
18% GST						
		18% GST				