

**Name of Work: Restoring & Removing Blockages in the External Sewer Lines and Construction of Manholes at TANSIDCO Industrial Estate, Kakkalur in Thiruvallur District**

**EMD in Rs.73,000/-**

**Date of Tender: 12.04.2022**

**SCHEDULE OF QUANTITIES**

SL. NO	QTY	DESCRIPTION OF WORK	TNBP NO	RATE IN FIGURES AND WORDS	UNIT	AMOUNT
1		<b>Cleaning Underground Sewer Pipeline</b> using jetting cum suction machine, cleaning the sewer pipeline of size 150 - 300 mm dia using own equipment / materials including safety equipments and insurance as directed etc., complete and as directed by TANSIDCO Engineers.	Special			
a)	6110 RM (Six Thousand One Hundred and Ten)	Cleaning 150mm sewer pipeline of 1.00m - 2.00m depth			1 RM (One Running Meter)	
b)	1410 RM (One Thousand Four Hundred and Ten)	Cleaning 200mm sewer pipeline of 2.00m - 3.00m depth			1 RM (One Running Meter)	
c)	610 RM (Six Hundred and Ten)	Cleaning 200mm sewer pipeline of 3.00m - 3.50m depth			1 RM (One Running Meter)	
d)	490 RM (Four Hundred and Ninety)	Cleaning 200mm sewer pipeline of 3.50m - 4.00m depth			1 RM (One Running Meter)	

NO.OF CORRECTIONS IN FIGURE:

NO.OF CORRECTIONS IN WORDS:

CONTRACTOR

SUPERINTENDING ENGINEER i/c

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e)	1100 RM (One Thousand and One Hundred)	Cleaning 200mm sewer pipeline of 4.00m - 4.50m depth			1 RM (One Running Meter)	
2		<b>Desilting Manhole</b> with mechanical method including safety equipments like Medical Oxygen Resuscitator, Breathing Apparatus etc., complete.	Special			
a)	193 Nos (One Hundred and Ninety Three)	Manhole of 1.00m - 2.00m depth			1 No (Each)	
b)	56 Nos (Fifty Six)	Manhole of 2.00m - 3.00m depth			1 No (Each)	
c)	45 Nos (Forty Five)	Manhole of 3.00m - 4.00m depth			1 No (Each)	
d)	38 Nos (Thirty Eight)	Manhole of 4.00m - 5.00m depth			1 No (Each)	

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3		<b>Construction of Circular Manhole Chamber</b> of following inner dia, steining wall thickness and depth (cover slab bottom to invert level) as per drawing including necessary earth work excavation in all kinds of soils with stone dust refilling, Plain Cement Concrete 1:5:10 (One of cement, five of <b>M Sand</b> and ten of aggregate) using 40mm gauge hard broken stone jelly for a depth of 0.10m for foundation, RCC bottom raft slab for 0.15m depth, RCC circular side wall 0.20/0.23m thick, RCC cover slab for 0.15m thick using RCC 1:1.5:3 (One of cement, one & half of <b>M Sand</b> and three of aggregate) using 20mm gauge hard broken stone jelly, channeling with PCC 1:1.5:3 (One of cement, one & half of <b>M Sand</b> and three of aggregate) using 20mm gauge hard broken stone jelly, supplying & fixing of 600mm dia FRC Manhole Cover to suit 600 mm clear opening manhole frame and 600mm dia FRC Manhole Frame to have clear opening of 600mm dia to suit 600mm dia FRC cover, bedding and channeling including refilling the sides of foundation with excavated earth and depositing the surplus earth with an initial lead of 10m and initial lift upto 2m as directed by the departmental engineers including finishing, curing, cost of all materials, labours, shoring, strutting and bailing out of water wherever necessary etc. complete (As per the type of design of manhole)	Special			
a)		<b>1.00m dia and 0.20m wall thickness</b>				
i)	5 Nos (Five)	Below GL from 1.00m to 1.50m depth			1 No (Each)	
b)		<b>1.20m dia and 0.20m wall thickness</b>				

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i)	5 Nos (Five)	Below GL from 1.50m to 2.00m depth			1 No (Each)	
ii)	10 Nos (Ten)	Below GL from 2.00m to 2.50m depth			1 No (Each)	
iii)	6 Nos (Six)	Below GL from 2.50m to 3.00m depth			1 No (Each)	
iv)	4 Nos (Four)	Below GL from 3.00m to 3.50m depth			1 No (Each)	
v)	4 Nos (Four)	Below GL from 3.50m to 4.00m depth			1 No (Each)	

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4		<b>Supplying, laying and jointing of following dia of HDPE Pipes</b> of IS 4984 / 2016 using PE 100, PN 6 grade raw material for sewer pipe line including necessary earth work excavation, jointing & laying the pipes to proper grade & alignment, testing the pipes with required pressure of water including cost of pipe, labour for jointing & laying the pipe, refilling the trench as before after the pipes are laid, all lead charges for conveyance of water for testing, dismantling the brick work and making dismantled portion good and as directed by the SIDCO Engineers including shoring, strutting, side shuttering with labour charges and bailing out water wherever necessary etc. complete. (The HDPE pipe should be got approved from the Executive Engineer before use on work.)	Special			
a)		<b>200mm dia HDPE Pipe</b>				
i)	104 RM (One Hundred and Four)	Below GL from 1.00m to 1.50m depth			1 RM (One Running Meter)	
ii)	130 RM (One Hundred and Thirty)	Below GL from 1.50m to 2.00m depth			1 RM (One Running Meter)	
b)		<b>250mm dia HDPE Pipe</b>				

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i)	200 RM (Two Hundred)	Below GL from 2.00m to 2.50m depth			1 RM (One Running Meter)	
ii)	138 RM (One Hundred and Thirty Eight)	Below GL from 2.50m to 3.00m depth			1 RM (One Running Meter)	
c)		<b>315mm dia HDPE Pipe</b>				
i)	132 RM (One Hundred and Thirty Two)	Below GL from 3.00m to 3.50m depth			1 RM (One Running Meter)	
ii)	280 RM (Two Hundred and Eighty)	Below GL from 3.50m to 4.00m depth			1 RM (One Running Meter)	
5	66 Cum (Sixty Six)	<b>Brick Work in Cement Mortar 1:5</b> (One of cement and five of <b>M Sand</b> ) using second class bricks of size 9" x 4 1/2" x 3" including curing etc., complete complying with standard specification.	31		1 Cum (One Cubic Meter)	

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6		<b>Providing RCC Cover Slab</b> of 0.15m thick using RCC 1:1.5:3 (One of cement, one & half of <b>M Sand</b> and three of aggregate) using 20mm gauge hard broken stone jelly, centering the plane surfaces, supplying & fixing of 600mm dia FRC Manhole Cover to suit 600 mm clear opening manhole frame and 600mm dia FRC Manhole Frame to have clear opening of 600mm dia to suit 600mm dia FRC cover including finishing, curing, cost of all materials, labours, shoring, strutting and bailing out of water wherever necessary etc., complete and as directed by TANSIDCO Engineers.	30			
a)	27 Nos (Twenty Seven)	For Circular Cover Slab			1 No (Each)	
b)	110 Nos (One Hundred and Ten)	For Rectangular Cover Slab			1 No (Each)	

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SL. NO	QTY	DESCRIPTION OF WORK	TNBP NO	RATE IN FIGURES AND WORDS	UNIT	AMOUNT
7	4.50 MT (Four Point Five Zero)	<b>Supplying, fabricating and placing Reinforcement Steel</b> of high yeild strength ribbed bar of various diameter and grade confirming to IS1786 of reinforced concrete work. The work including decoiling, straightening, cutting, bending, fabricating and placing in position at all levels and floors including lead and lift according to drawings, specifications, etc complete. Supply and use of 18Gauge black annealed binding wire double fold to tie the bars in position, chairs pins, space bars, unauthorised laps which will not be measured separately neither for payment nor for reconsilation and providing precast cement / pvc cover blocks for main reinforcement to ensure specified cover and as directed. Steel and binding wire will be procured by the contractor at his own cost.	30 & 86		1 MT (One Metric Tonne)	
8	171 Nos (One Hundred and Seventy One)	<b>Supply, delivery and fixing in position of 600mm dia FRC Manhole Frame</b> to have clear opening of 600mm dia to suit 600mm dia FRC cover etc., complete and as directed by TANSIDCO Engineers.	Special		1 No (Each)	
9	171 Nos (One Hundred and Seventy One)	<b>Supply, delivery and fixing in position of 600mm dia FRC Manhole Cover</b> to suit 600 mm clear opening manhole frame etc., complete and as directed by TANSIDCO Engineers.	Special		1 No (Each)	
10	776 Sqm (Seven Hundred and Seventy Six)	<b>Plastering with Cement Mortar 1:3</b> (One of cement and three of <b>M Sand</b> ) of 12mm thick including centering, strutting, finishing and curing etc., complete complying with standard specification and as directed by TANSIDCO Engineers.	56 & 57		1 Sqm (One Square Metre)	

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SL. NO	QTY	DESCRIPTION OF WORK	TNBP NO	RATE IN FIGURES AND WORDS	UNIT	AMOUNT
11	640 Sqm (Six Hundred and Forty)	<b>Colour Washing</b> two coats over one coat of white washing with fine screened shell lime approved colour pigments gum conjee. The rate includes one base coat of white washing and two coats of colour washing etc., complete.	64		1 Sqm (One Square Meter)	
11 Items (Eleven Items Only)					Total in Rs.	
<b>Note: The tender invited excluding GST. At the time of acceptance of the tender and signing of agreement, the applicable GST of 18% will be included for this work.</b>						

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