ABSTRACT ESTIMATE

Jal Jeevan Mission (JJM)-JJM PROVIDING FHTCS TO ALL HOUSEHOLD IN ERATTAYAR

AND KAMAKSHI (PART) PANCHAYATHS IN IDUKKI DISTRICTS-Providing and Laying

Distribution Network and FHTC's for various zones-Pipeline Work

| Sl No | Specification | Quantity | Rate | Amount |
|-------|------------------------------------|--------------------------------|--------------------|-----------------|
| 1 | Cost of materials | | | |
| 1.001 | 100.98.116 | | | |
| | Supply of DI K9 Pipe Conforming | to IS 8329/2000 |), 150mm Dia. | |
| | Net Total | 4714.000metr e | @1890.46/metre | 8911628.44 |
| 1.002 | 100.98.117 | | | |
| | Supply of DI K9 Pipe Conforming | to IS 8329/2000 |), 200mm Dia. | |
| | Net Total | 1083.000metr e | @2589.09/metre | 2803984.47 |
| 1.003 | 100.98.118 | -distriction | | |
| | Supply of DI K9 Pipe Conforming | to I <mark>S 832</mark> 9/2000 |), 250mm Dia. | |
| | Net Total | 631.000metre | @3616.52/metre | 2282024.12 |
| 1.004 | 100.98.135 | FORM FOR THE | MANAGEMENT | |
| | Supply of HDPE Pipe PE 100 (IS 4 | 984/1995), 8kg | , 110mm Outer Dia. | |
| | Net Total | 27111.000met re | @316.40/metre | 8577920.40 |
| 1.005 | OD79784/2022-2023 | | | |
| | Supply of specials for HDPE Pipe I | PE100 ,8(kg) as | per direction. | |
| | Net Total | 27111.000met re | @9.50/metre | 257554.50 |
| 1.006 | 100.98.155 | | | |
| | Supply of HDPE Pipe PE 100 (IS 4 | 984/1995), 10k | g, 110mm Outer Dia | • |
| | Net Total | 10128.000met re | @385.56/metre | 3904951.68 |
| 1.007 | OD79826/2022-2023 | | | |
| | Supply of Specials for HDPE Pipe | 10(kg) as per di | rection | |
| | Net Total | 10128.000met re | @11.45/metre | 115965.60 |
| 1.008 | 100.98.195 | | | |
| | Supply of HDPE Pipe PE 100 (IS 4 | 984/1995), 16k | g, 110mm Outer Dia | |
| | Net Total | 27975.000met re | @557.74/metre | 15602776.5 0 |

| 1.010 | Sl No | Specification | Quantity | Rate | Amount |
|--|-------|-----------------------------------|-------------------|----------------------|------------|
| Net Total 27975.000met @ 16.74/metre 468301 | 1.009 | OD79869/2022-2023 | | | |
| 1.010 | | Supply of Specials for 110 mm dia | HDPE 16(kg) p | ipe | |
| Supply of HDPE Pipe PE 100 (IS 4984/1995), 8kg, 90mm Outer Dia. Net Total | | Net Total | | @16.74/metre | 468301.50 |
| Net Total 10205.000met re @212.57/metre 2169276 | 1.010 | 100.98.134 | | | |
| 1.011 OD79888/2022-2023 Supply of Specials for 90 mm HDPE 8 Kg Pipe | | Supply of HDPE Pipe PE 100 (IS 4 | 984/1995), 8kg, | 90mm Outer Dia. | |
| Supply of Specials for 90 mm HDPE 8 Kg Pipe | | Net Total | | @212.57/metre | 2169276.85 |
| Net Total 10205.000met re @6.37/metre 65005 | 1.011 | OD79888/2022-2023 | | | |
| 1.012 100.98.154 Supply of HDPE Pipe PE 100 (IS 4984/1995), 10kg, 90mm Outer Dia. | | Supply of Specials for 90 mm HDI | PE 8 Kg Pipe | | |
| Supply of HDPE Pipe PE 100 (IS 4984/1995), 10kg, 90mm Outer Dia. Net Total 8100.000metr @264.59/metre 2143179 | | Net Total | | @6.37/metre | 65005.85 |
| Net Total 8100.000metr @ 264.59/metre 2143179 | 1.012 | 100.98.154 | | | |
| 1.013 OD79908/2022-2023 Supply specials for 90 mm HDPE 90 mm 10(kg)pipe Net Total 8100.000metr @7.95/metre 64395 1.014 100.98.194 Supply of HDPE Pipe PE 100 (IS 4984/1995), 16kg, 90mm Outer Dia. Net Total 8438.000metr @376.08/metre 3173363 1.015 OD79931/2022-2023 Specials for 90 mm HDPE Pipe 16 (kg) Net Total 8438.000metr @ 11.30/metre 95349 1.016 OD74262/2022-2023 Supply of 100mm GI (M) pipes Net Total 360.000metre @1341.53/metre 482950 1.017 OD79681/2022-2023 Specials for 100 mm GI pipe medium Net Total 360.000metre @40.30/metre 14508 1.018 100.98.440 Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm. Net Total 265.000no @5636.76/no 1493741 | | Supply of HDPE Pipe PE 100 (IS 4 | 984/1995), 10kg | g, 90mm Outer Dia. | |
| Supply specials for 90 mm HDPE 90 mm 10(kg)pipe 8100.000metr @7.95/metre 64395 | | Net Total | 8100.000metr e | @264.59/metre | 2143179.00 |
| Net Total 8100.000metr @7.95/metre 64395 | 1.013 | OD79908/2022-2023 | Alberta San | | |
| 1.014 100.98.194 Supply of HDPE Pipe PE 100 (IS 4984/1995), 16kg, 90mm Outer Dia. Net Total 8438.000metr @376.08/metre 3173363 | | Supply specials for 90 mm HDPE 9 | 0 mm 10(kg)pi | pe | |
| Supply of HDPE Pipe PE 100 (IS 4984/1995), 16kg, 90mm Outer Dia. Net Total 8438.000metr @376.08/metre 3173363 | | Net Total | | @7.95/metre | 64395.00 |
| Net Total 8438.000metr @376.08/metre 3173363 | 1.014 | 100.98.194 | BUL WORKS | | |
| 1.015 OD79931/2022-2023 Specials for 90 mm HDPE Pipe 16 (kg) Net Total 8438.000metr e @11.30/metre 95349 1.016 OD74262/2022-2023 Supply of 100mm GI (M) pipes Net Total 360.000metre @1341.53/metre 482950 1.017 OD79681/2022-2023 Specials for 100 mm GI pipe medium Net Total 360.000metre @40.30/metre 14508 1.018 100.98.440 Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm. Net Total 265.000no @5636.76/no 1493741 | | Supply of HDPE Pipe PE 100 (IS 4 | 984/1995), 16kg | g, 90mm Outer Dia. | |
| Specials for 90 mm HDPE Pipe 16 (kg) Net Total 8438.000metr @11.30/metre 95349 | | Net Total | | @376.08/metre | 3173363.04 |
| Net Total 8438.000metr @11.30/metre 95349 | 1.015 | OD79931/2022-2023 | | | |
| 1.016 OD74262/2022-2023 Supply of 100mm GI (M) pipes Net Total 360.000metre @1341.53/metre 482950 1.017 OD79681/2022-2023 Specials for 100 mm GI pipe medium Net Total 360.000metre @40.30/metre 14508 1.018 100.98.440 Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm. Net Total 265.000no @5636.76/no 1493741 | | Specials for 90 mm HDPE Pipe 16 | (kg) | | |
| Supply of 100mm GI (M) pipes Net Total 360.000metre @1341.53/metre 482950 | | Net Total | | @11.30/metre | 95349.40 |
| Net Total 360.000metre @1341.53/metre 482950 | 1.016 | OD74262/2022-2023 | | | |
| 1.017 OD79681/2022-2023 Specials for 100 mm GI pipe medium Net Total 360.000metre @40.30/metre 14508 1.018 100.98.440 Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm. Net Total 265.000no @5636.76/no 1493741 | | Supply of 100mm GI (M) pipes | | | |
| Specials for 100 mm GI pipe medium | | Net Total | 360.000metre | @1341.53/metre | 482950.80 |
| Net Total 360.000metre @40.30/metre 14508 1.018 100.98.440 Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm. Net Total 265.000no @5636.76/no 1493741 | 1.017 | OD79681/2022-2023 | | | |
| 1.018 100.98.440 Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm. Net Total 265.000no @5636.76/no 1493741 | | Specials for 100 mm GI pipe mediu | ım | | |
| Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm. Net Total 265.000no @5636.76/no 1493741 | | Net Total | 360.000metre | @40.30/metre | 14508.00 |
| Orifice Type S1, Size 25mm. Net Total 265.000no @5636.76/no 1493741 | 1.018 | | | | |
| | | | g to IS 14848 - | 2000, Single Orifice | , Small |
| l 1 019 100 98 445 | | Net Total | 265.000no | @5636.76/no | 1493741.40 |
| 1.017 | 1.019 | 100.98.445 | | | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|---|-------------------|-----------------------|-----------------|
| | Supply of CI Air Valve, Conformin Size 40mm. | g to IS 14848 - | 2000, Double Orific | e Type DS2, |
| | Net Total | 50.000no | @6950.42/no | 347521.00 |
| 1.020 | 100.98.436 | | | |
| | Supply of CI Air Valve, Conforming Size 80mm. | g to IS 14848 - | 2000, Kinetic Air V | alve Type DK, |
| | Net Total | 12.000no | @11748.57/no | 140982.84 |
| 1.021 | 100.98.457 | | | |
| | Supply of CI Double Flanged Sluice Valve with Cap PN 1.6, Size 80mm | e Valve Confor | ming to IS 14846 - 2 | 000, Sluice |
| | Net Total | 95.000no | @6624.03/no | 629282.85 |
| 1.022 | 100.98.458 | | | |
| | Supply of CI Double Flanged Sluice Valve with Cap PN 1.6, Size 100mr | | ming to IS 14846 - 2 | 000, Sluice |
| | Net Total | 70.000no | @9003.95/no | 630276.50 |
| 1.023 | 100.98.460 | | | |
| | Supply of CI Double Flanged Sluice Valve with Cap PN 1.6, Size 150mr | | ming to IS 14846 - 2 | 000, Sluice |
| | Net Total | 9.000no | @13396.74/no | 120570.66 |
| 1.024 | 100.98.461 | FORM FOR THE | MANAGEMENT | |
| | Supply of CI Double Flanged Sluice Valve with Cap PN 1.6, Size 200mr | | ming to IS 14846 - 2 | 000, Sluice |
| | Net Total | 5.000no | @23723.64/no | 118618.20 |
| 1.025 | 100.98.462 | | | |
| | Supply of CI Double Flanged Sluice Valve with Cap PN 1.6, Size 250mr | | ming to IS 14846 - 2 | 000, Sluice |
| | Net Total | 3.000no | @34361.82/no | 103085.46 |
| | | | Heading Total(Rs) | 54717214.0 6 |
| 2 | Working charge for Distribution | System | | |
| 2.001 | 100.1.1 | | | |
| | Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil. | | | |
| | Net Total | 36435.842cu m | @579.88/cum | 21128416.0 6 |
| 2.002 | 100.1.5 | | | |
| | Excavating trenches of required wid | Ith for pipes, ca | bles, etc., including | excavation for |

| sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm 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, in Ordinary Rock. Net Total | Sl No | Specification | Quantity | Rate | Amount |
|--|-------|--|--|---|---------------------------------------|
| 2.003 100.2.7 Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited. Net Total 2816.296cum @1400.34/cum 3943771.94 100.4.1 Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting) Net Total 2816.296cum @4094.08/cum 11530141.1 2.005 50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met @28.84/metre 2809102.52 2.007 100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the excavation. Net Total 5 | | getting out the excavated soil, and t exceeding 20cm in depth, including watering, etc., and disposing of surp | hen returning the consolidating of | ne soil as required, in each deposited layer | layers not by ramming, |
| Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited. Net Total 2816.296cum @1400.34/cum 3943771.94 2.004 100.4.1 Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting) Net Total 2816.296cum @4094.08/cum 11530141.1 2.005 50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 2.006 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met @28.84/metre 2809102.52 2.007 100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminious / | | Net Total | | @842.08/cum | 11857730.9 9 |
| sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited. Net Total 2816.296cum @1400.34/cum 3943771.94 2.004 100.4.1 Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting) Net Total 2816.296cum @4094.08/cum 11530141.1 3 2.005 50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 2.006 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met @28.84/metre 2809102.52 2.007 100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. | 2.003 | 100.2.7 | | | |
| 2.004 100.4.1 Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting) Net Total 2816.296cum @4094.08/cum 11530141.1 2.005 50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 2.006 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met @28.84/metre 2809102.52 2.007 100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. Net Total 5250.000metr e @31.77/metre 166792.50 | | sockets, and dressing of sides, rammer getting out the excavated soil, and the exceeding 20cm in depth, including watering, etc., and disposing of surposing of s | ning of bottoms hen returning the consolidating of blus excavated s | s, depth up to 1.5m, in the soil as required, in each deposited layer soil as directed, within | ncluding layers not by ramming, |
| Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting) Net Total 2816.296cum @4094.08/cum 11530141.1 2.005 50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 2.006 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met @28.84/metre 2809102.52 2.007 100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. Net Total 5250.000met e @31.77/metre 166792.50 | | Net Total | 2816.296cum | @1400.34/cum | 3943771.94 |
| materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting) Net Total 2816.296cum @4094.08/cum 11530141.1 3 2.005 50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 2.006 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met re @28.84/metre 2809102.52 2.007 100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. Net Total 5250.000metr e @31.77/metre 166792.50 | 2.004 | 100.4.1 | 40 | | |
| 2.005 50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 2.006 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met re @28.84/metre 2809102.52 2.007 100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. Net Total 5250.000metr e @31.77/metre 166792.50 | | materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures | | | |
| Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 | | Net Total | 2816.296cum | @4094.08/cum | 11530141.1 3 |
| foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge Net Total 51.632cum @548.87/cum 28339.26 | 2.005 | 50.2.25.1 | BLIC WORKS | | |
| 2.006 Net Total 51.632cum @548.87/cum 28339.26 2.006 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met re | | foundations etc. in layers not exceed layer by ramming and watering, lea | ding 20 cm in d | epth, consolidating e | each deposited |
| Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met re @28.84/metre 2809102.52 | | Net Total | 51.632cum | @548.87/cum | 28339.26 |
| tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Net Total 97403.000met re @28.84/metre 2809102.52 | 2.006 | 100.8.1 | | | |
| 2.007 100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. Net Total 5250.000metr e @31.77/metre 166792.50 | | | | | |
| Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. Net Total S250.000metr @31.77/metre 166792.50 | | Net Total | | @28.84/metre | 2809102.52 |
| 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. Net Total S250.000metr @31.77/metre 166792.50 | 2.007 | 100.59.1 | | | |
| Net Total e @31.7//metre 166/92.50 | | 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by | | | |
| 2.008 15.59 | | Net Total | | @31.77/metre | 166792.50 |
| | 2.008 | 15.59 | | | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|---|----------------------------------|--|---------------------------------|
| | Dismantling of flexible pavement (disposal of dismantled material up tengineer-in-charge. | | | |
| | Net Total | 630.000cum | @394.70/cum | 248661.00 |
| 2.009 | 15.2.2 | | | |
| | Demolishing cement concrete manumaterial within 50 metres lead as peconcrete 1:4:8 leaner mix (including | er direction of E | Engineer - in-Charge. | ng disposal of Nominal |
| | Net Total | 240.000cum | @1318.13/cum | 316351.20 |
| 2.010 | 100.14.2 | | | |
| | Conveying and laying S&S Centrifictor IS: 8329 excluding cost of pipes K-9 Pipes. | agally Cast (Spuand specials: 15 | un) / Ductile Iron Pip 50mm diameter Duct | es conforming ile Iron Class |
| | Net Total | 4696.000metr e | @91.51/metre | 429730.96 |
| 2.011 | 18.70.2 | | | |
| | Providing push - on-joints to Centri Pipes including testing of joints and pipes | | | |
| | Net Total | 845.000joint | @184.10/joint | 155564.50 |
| 2.012 | OD109578/2022-2023 | FORM FOR THE | MANAGEMENT | |
| | Labour for cutting D.I. pipe with sto 150 mm diameter D.I. pipe | eel saw. | | |
| | Net Total | 52.000Each Cut | @337.10/Each Cut | 17529.20 |
| 2.013 | 18.30.4 | | | |
| | Providing flanged joints to double f testing of joints:150 mm diameter p | | pipes and specials, i | ncluding |
| | Net Total | 20.000no | @402.30/no | 8046.00 |
| 2.014 | 100.35.2 | | | |
| | Testing 150mm DI/CI pipeline with potable water to the required test pressure 150 mm dia Observed Data derived from item no.1018 of PHED DATA | | | |
| | Net Total | 4696.000metr | @32.86/metre | 154310.56 |
| | Net Total | e | @32.80/metre | 134310.30 |
| 2.015 | 100.14.3 | | | |
| | Conveying and laying S&S Centrift to IS: 8329 excluding cost of pipes K-9 Pipes. | and specials: 20 | un) / Ductile Iron Pip 10mm diameter Duct | es conforming ile Iron Class |
| | Net Total | 1115.000metr e | @127.49/metre | 142151.35 |
| 2.016 | 18.70.3 | | | |
| | | | <u> </u> | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|--|---------------------------------------|--|----------------------------|
| | Providing push - on-joints to Centri Pipes including testing of joints and pipes | | | |
| | Net Total | 200.000joint | @270.11/joint | 54022.00 |
| 2.017 | OD109584/2022-2023 | | | |
| | Labour for cutting D.I. pipe with ste 150 mm diameter D.I. pipe | eel saw. | | |
| | Net Total | 35.000Each Cut | @337.10/Each Cut | 11798.50 |
| 2.018 | 18.30.5 | | | |
| | Providing flanged joints to double f testing of joints:200 mm diameter p | | pipes and specials, | including |
| | Net Total | 15.000no | @436.82/no | 6552.30 |
| 2.019 | 100.35.3 | | | |
| | Testing 200mm DI/CI pipeline with 200 mm dia Observed Data derived from item n | A O ALL | 1 1 | ressure |
| | Net Total | 1115.000metr e | @41.66/metre | 46450.90 |
| 2.020 | 100.14.4 | | | |
| | Conveying and laying S&S Ce conforming to IS: 8329 excluding c Iron Class K-9 Pipes. | entrifugally Cast ost of pipes and | t (Spun) / Ductile Iro I specials: 250mm di | on Pipes ameter Ductile |
| | Net Total | 635.000metre | @170.23/metre | 108096.05 |
| 2.021 | 18.70.4 | | | |
| | Providing push - on-joints to Centri Pipes including testing of joints and pipes | | | |
| | Net Total | 120.000joint | @329.85/joint | 39582.00 |
| 2.022 | 18.30.6 | | | |
| | Providing flanged joints to double f testing of joints:250 mm diameter p | | pipes and specials, | including |
| | Net Total | 12.000no | @595.56/no | 7146.72 |
| 2.023 | OD109590/2022-2023 | | | |
| | Labour for cutting D.I. pipe with ste 250 mm diameter D.I. pipe | eel saw. | | |
| | Net Total | 15.000Each Cut | @559.11/Each Cut | 8386.65 |
| 2.024 | 100.35.4 | | | |
| | Testing 250mm DI/CI pipeline with 250 mm dia Observed Data derived from item n | - | | ressure. |
| | Observed Data derived from item n | o.1022 of PHEI | O DATA | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|--|---|---|--|
| | Net Total | 635.000metre | @53.00/metre | 33655.00 |
| 2.025 | 100.10.1 | | | |
| | Laying HDPE pipes (IS: 4984) on lead and aligning the pipes, electro-electrofusion machines, testing the working pressure and after testing, into the trenches already made, testing before back filling and levelling the appliances etc., complete but exclude Outer Diameter pipes. | fusion welding pipeline thus fal aligning the pip ing the line to so trenches include | using automatic or s bricated to suit the hy eline, lowering the p uitable pressure with ling all labour charge | emi-automatic ydraulic ipe in position potable water e, hire for |
| | Net Total | 26743.000met re | @97.37/metre | 2603965.91 |
| 2.026 | 100.10.2 | | | |
| | Laying HDPE pipes (IS: 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi-automatic electrofusion machines, testing the pipeline thus fabricated to suit the hydraulic working pressure and after testing, aligning the pipeline, lowering the pipe in positior into the trenches already made, testing the line to suitable pressure with potable water before back filling and levelling the trenches including all labour charge, hire for appliances etc., complete but excluding cost of pipe and fittings: 110mm Nominal Outer Diameter Pipes. | | | |
| | Net Total | 64 <mark>938.0</mark> 00met re | @132.06/metre | 8575712.28 |
| 2.027 | 18.12.8 | BLIC WORKS | | |
| | Providing and fixing G.I. pipes comrefilling etc. External work80 mm c | | | nching and |
| | Net Total | 40135.000met re | @1064.49/metre | 42723306.1 5 |
| 2.028 | 100.12.9 | | | |
| | Conveying and fixing G.I. pipes correfilling etc., but excluding cost of I diameter nominal bore. | mplete with G.I pipes and fitting | . fittings including tr s for External work: | enching and 100mm |
| | Net Total | 360.000metre | @245.48/metre | 88372.80 |
| 2.029 | 18.67.1 | | | |
| | Providing and laying S & S C.I. Staper IS 13382:Upto 300 mm dia | andard specials | suitable for mechani | cal jointing as |
| | Net Total | 5.930quintal | @14708.68/quint al | 87222.47 |
| 2.030 | 18.68.1 | | | |
| | Providing and laying D.I specials of IS: 9523:Upt 600 mm dia | f class K - 12 su | itable for push - on j | ointing as per |
| | Net Total | 38.700quintal | @21003.05/quint al | 812818.04 |
| 2.031 | 100.32.1 | | | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|--|-------------------------|---|--------------------------------|
| | Conveying and fixing C. I. Single A nuts, rubber insertions etc., complet if required, will be paid separately): | e, but excluding | g the cost of air valve | |
| | Net Total | 265.000no | @146.63/no | 38856.95 |
| 2.032 | 100.32.2 | | | |
| | Conveying and fixing C. I. Single A nuts, rubber insertions etc., complet if required, will be paid separately): | e, but excluding | g the cost of air valve | |
| | Net Total | 50.000no | @184.44/no | 9222.00 |
| 2.033 | 100.32.4 | | | |
| | Conveying and fixing C. I. Double a nuts, rubber insertions etc., complet if required, will be paid separately): | e, but excluding | g the cost of air valve | |
| | Net Total | 12.000no | @229.21/no | 2750.52 |
| 2.034 | 100.31.1.1 | 11 | | |
| | Conveying and fixing C.I. sluice valusertions etc., complete, but exclud will be paid separately): 80mm dian | ing the cost of | by providing bolts, r the valve (tail pieces | nuts, rubber , if required, |
| | Net Total | 9 <mark>5.</mark> 000no | @613.80/no | 58311.00 |
| 2.035 | 100.31.1.2 | | | |
| | Conveying and fixing C.I. sluice valusertions etc., complete, but exclud will be paid separately): 100mm dia | ing the cost of | | |
| | Net Total | 70.000no | @925.37/no | 64775.90 |
| 2.036 | 100.31.1.4 | | | |
| | Conveying and fixing C.I. sluice valus insertions etc., complete, but exclud will be paid separately): 150mm dia | ing the cost of | by providing bolts, r the valve (tail pieces | nuts, rubber , if required, |
| | Net Total | 9.000no | @1253.32/no | 11279.88 |
| 2.037 | 100.31.1.5 | | | |
| | Conveying and fixing C.I. sluice valusertions etc., complete, but exclud will be paid separately): 200mm dia | ing the cost of | | |
| | Net Total | 5.000no | @1625.85/no | 8129.25 |
| 2.038 | 100.31.1.6 | | | |
| | Conveying and fixing C.I. sluice valus insertions etc., complete, but exclud will be paid separately): 250mm dia | ing the cost of | | |
| | Net Total | 3.000no | @2304.80/no | 6914.40 |
| 2.039 | OD74264/2022-2023 | | | |
| | Supply and fixing of stainless steel 9739(1981) | spring loaded p | ressure relief valve | as per IS |

| Sl No | Specification | Quantity | Rate | Amount | |
|-------|--|---------------------------------------|--|------------------------|--|
| | Net Total | 30.000no | @6229.37/no | 186881.10 | |
| 2.040 | 100.37.6.1 | | | | |
| | In situ fabrication of M.S. pipes of size 150mm (I.D.) using 8mm thick M.S. pincluding cost and conveyance charges of M.S. plate, all fabrication charges, of painting the steel work with two or more coat deluxe multi surface paint to even shade over an under-coat of primer etc., complete. | | | | |
| | Net Total | 100.000metre | @5174.49/metre | 517449.00 | |
| 2.041 | 100.37.6.2 | | | | |
| | Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of problem thick M.S. plates. | S. plate, all fabr more coat delux | ication charges, char se multi surface pain | ges of t to give an | |
| | Net Total | 12.000no | @1544.03/no | 18528.36 | |
| 2.042 | 100.37.6.3 | .000 | | | |
| | Cutting 150mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla | hire charges of | | | |
| | Net Total | 24.000no | @171.45/no | 4114.80 | |
| 2.043 | 100.37.6.4 | | | | |
| | Welding 150mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates. | | | | |
| | Net Total | 24.000no | @648.09/no | 15554.16 | |
| 2.044 | 100.37.6.5 | | | | |
| | Grinding cut and weld edges of 150mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates. | | | | |
| | Net Total | 48.000no | @121.73/no | 5843.04 | |
| 2.045 | 100.37.7.1 | | | | |
| | In situ fabrication of M.S. pipes of size 200mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charge of painting the steel work with two or more coat deluxe multi surface paint to give a even shade over an under-coat of primer etc., complete. | | | | |
| | Net Total | 60.000metre | @6165.53/metre | 369931.80 | |
| 2.046 | 100.37.7.2 | | | | |
| | Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of present thick M.S. plates. | S. plate, all fabr more coat delux | ication charges, char se multi surface pain | ges of t to give an | |
| | Net Total | 12.000no | @2081.10/no | 24973.20 | |
| 2.047 | 100.37.7.3 | | | | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|--|---|---|------------------------------|
| | Cutting 200mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla | hire charges of | and other specials be tools etc., complete | y gas cutting : For pipes |
| | Net Total | 24.000no | @223.11/no | 5354.64 |
| 2.048 | 100.37.7.4 | | | |
| | Welding 200mm (I.D.) M.S. pipes for welding machine including cost of tools etc., complete: For pipes fa | gas and welding | grods, all labour and | hire charges |
| | Net Total | 24.000no | @843.32/no | 20239.68 |
| 2.049 | 100.37.7.5 | | | |
| | Grinding cut and weld edges of 200 including all labour and hire charge 8mm thick M.S. plates. | | | |
| | Net Total | 48.000no | @158.40/no | 7603.20 |
| 2.050 | 2.8.1 | 11 | | |
| | Earth work in excavation by mecha in foundation trenches or drains (no including dressing of sides and ram getting out the excavated soil and d within a lead of 50 m.All kinds of s | t exceeding 1.5 ming of bottom isp <mark>osal of</mark> surpl | m in width or 10 squ s, lift up to 1.5 m, in | m on plan), cluding |
| | Net Total | 46 <mark>6.6</mark> 50cum | @309.99/cum | 144656.83 |
| 2.051 | OD109570/2022-2023 | BLIC WORKS | AND CONTRACT A L | |
| | Earthwork excavation by mechanics foundation trenches or drains (exc | al means (Hydr eeding 1.5 up to | olic excavator)/man 3m. | ual means in |
| | Net Total | 93.330cum | @661.68/cum | 61754.59 |
| 2.052 | 4.1.6 | | | |
| | Providing and laying in position cercost of centering and shuttering - A coarse sand : 6 graded stone aggreg | ll work up to pl | inth level:1:3:6 (1 ce | |
| | Net Total | 35.258cum | @7527.05/cum | 265388.73 |
| 2.053 | 4.1.3 | | | |
| | Providing and laying in position cercost of centering and shuttering - A sand (zone-III) : 4 graded stone agg | ll work up to pl | inth level:1:2:4 (cem | |
| | Net Total | 79.955cum | @8340.91/cum | 666897.46 |
| 2.054 | 5.1.2 | | | |
| | Providing and laying in position spectruding the cost of centering, shu to plinth level:1:1:5:3 (1 cement 1.5 nominal size | ttering, finishin | g and reinforcement | - All work up |
| | Net Total | 308.050cum | @9483.13/cum | 2921278.20 |
| 2.055 | 5.9.1 | | | |
| | | | | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|--|--|---|---------------------------------|
| | Centering and shuttering including for:Foundations, footings, bases of | strutting, etc. ar columns, etc for | nd removal of form r mass concrete | |
| | Net Total | 2559.660sqm | @350.00/sqm | 895881.00 |
| 2.056 | 5.22.6 | | | |
| | Steel reinforcement for R.C.C work in position and binding all complete bars of grade Fe-500D or more | including strai upto plinth lev | ghtening, cutting, be elThermo - Mechani | nding, placing cally Treated |
| | Net Total | 20881.650kil ogram | @102.61/kilogra m | 2142666.11 |
| | | | Heading Total(Rs) | 116618962. 74 |
| 3 | Providing FHTC to various Zone | S | | |
| 3.001 | 100.60.13.1.2 | | | |
| | Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. | | | |
| | Net Total | 1322.000no | @7137.54/no | 9435827.88 |
| 3.002 | Providing 20mm (3/4 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 25mm (3/4 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter and weather with ISI mark resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. Net Total 1113.000no @8021.00/no 8927373.00 | | | |
| 3.003 | 100.60.13.7.2 | | | |
| | Providing 15mm (1/2 inch) house c | onnection with | 15mm water meter f | rom existing |

| Sl No | Specification | Quantity | Rate | Amount | |
|-------|--|-----------|-------------|------------|--|
| | CI mains up to 125 mm dia., up to a length of 5 m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers | | | | |
| | Net Total | 598.000no | @8321.22/no | 4976089.56 | |
| 3.004 | 100.60.13.9.2 | | | | |
| | Providing 20mm (3/4 inch) house connection with 15mm water meter from existing CI mains up to 125 mm dia., up to a length of 5 m using 25mm (3/4 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers | | | | |
| | Net Total | 922.000no | @9204.69/no | 8486724.18 | |
| 3.005 | 100.60.14.7.2 | | | | |
| | Providing 15mm (1/2 inch) house connection with 15mm water meter from existing CI mains from 150mm to 200mm dia., up to a length of 5 m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. | | | | |
| | Net Total | 121.000no | @8624.50/no | 1043564.50 | |
| 3.006 | 100.60.14.9.2 Providing 20mm (3/4 inch) house c CI mains from 150mm to 200mm d | | | | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|--|-----------------------------------|--|-----------------------------|
| | PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. | | | |
| | Net Total | 152.000no | @9507.98/no | 1445212.96 |
| 3.007 | Providing 15mm (1/2 inch) GM Air Valve in the water meter assembly for 15mm water connection, using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers. | | | |
| | Net Total | 2041.000no | @996.49/no | 2033836.09 |
| 3.008 | 100.60.21.2.1 | 3 | | |
| | Providing 20mm (3/4 inch) GM Air Valve in the water meter assembly for 20m water connection, using 25mm (3/4 inch) PE Pipe, PE80, PN16, Conforming to 4984: 2016 or later edition and PP PN 16 Compression specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as p directions of the department officers. | | | |
| | Net Total | 2187.000no | @1252.94/no | 2740179.78 |
| 3.009 | Providing 15mm PVC Tap in the water meter assembly for 15mm (1/2 inch) water connection, using 20mm (1/2 inch) Indian Standard uPVC Class 6 pipes, uPVC specials and PP PN 16 Compression specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers. | | | |
| | Net Total | 2041.000no | @683.67/no | 1395370.47 |
| 3.010 | Providing 15mm PVC Tap in the water meter assembly for 20mm (3/4 inch) water connection, using 25mm (3/4 inch) Indian Standard Class 6 uPVC pipes, uPVC specials and PP PN 16 Compression specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers. | | | |
| | Net Total | 2187.000no | @785.68/no | 1718282.16 |
| 3.011 | 100.60.15.1.1 | | | |
| | Providing additional length of hous Pipe, PE80, PN16, Conforming to I and testing the joints etc., by trench average cross section 0.3m x 0.75m | S 4984: 2016 of ing and refilling | r later edition and PNg in all kinds of soil v | N16 specials with trench of |

| Sl No | Specification | Quantity | Rate | Amount | |
|-------|---|---------------------|---------------|-----------------|--|
| | lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per the directions of the department officers. | | | | |
| | Net Total | 48984.000met re | @179.74/metre | 8804384.16 | |
| 3.012 | 100.60.15.2.1 | | | | |
| | Providing additional length of house connection pipe using 25 mm (3/4 inch) Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PN 16 spand testing the joints etc., by trenching and refilling in all kinds of soil with traverage cross section 0.3m x 0.75m for laying of connection pipe and service lighting, watching, providing caution boards, traffic control etc., including comaterials, hire for tools, cost of consumables and labour charges etc. complete excluding the cost of cutting of concrete / tarred / bituminous roads etc., and a the directions of the department officers. | | | | |
| | Net Total | 104976.000m etre | @195.27/metre | 20498663.5 2 | |
| 3.013 | 100.59.1 | THO ALL | | | |
| | Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. | | | | |
| | Net Total | 6400.000metr e | @31.77/metre | 203328.00 | |
| 3.014 | 15.59 | | | | |
| | Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilo metre, as per direction of Engineer-in-charge. | | | | |
| | Net Total | 240.000cum | @394.70/cum | 94728.00 | |
| 3.015 | 100.60.8.1 | | | | |
| | Replacing the chocked / damaged 15mm (1/2 inch) house connection with 15mm (inch) water meter from existing mains, up to a length of 5m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / Brass specials viz. brass ferrule, Elbow, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50r for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, safely removing & re-fixing existing water meter lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges but exclud cost of water meter and meter box and excluding charges for cutting the concrete / tarred / bituminous roads and as per the directions of the department officers | | | | |
| | Net Total | | @4031.21/no | 11315606.4 7 | |

| Sl No | Specification | Quantity | Rate | Amount | |
|-------|---|----------------------------|---|---------------------------------|--|
| 3.016 | 4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) | | | | |
| | | | | | |
| | Net Total | 64.500cum | @8340.91/cum | 537988.70 | |
| | | | Heading Total(Rs) | 83657159.4 3 | |
| 4 | Road Restoration Charges | | | | |
| 4.001 | 3.11 | | | | |
| | Removal of unserviceable soil including excavation, loading and disposal upto 1000 metres lead but excluding replacement by suitable soil which shall be paid separately as per clause 305. | | | | |
| | Net Total | 12820.000cu m | @49.16/cum | 630231.20 | |
| 4.002 | 10.2 | 100 | | | |
| | Maintenance of Earthen Shoulder (filling with fresh soil) Making up the loss of material/irregularities on the shoulder to the design level by adding fresh approved soil and compacting it with appropriate equipment. | | | | |
| | Net Total | 4 <mark>880.0</mark> 00sqm | @53.74/sqm | 262251.20 | |
| 4.003 | 4.2.A.1 | | | | |
| | Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method | | | | |
| | Net Total | 5930.000cum | @3283.03/cum | 19468367.9 0 | |
| 4.004 | 4.12 | | | | |
| | Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. | | | | |
| | Net Total | 1250.000cum | @3375.91/cum | 4219887.50 | |
| 4.005 | 5.1.a | | | | |
| | Providing and applying primer coat of granular Base including clearing 0.70 - 1.0 kg/sqm using mechanical | of road surface | emulsion (SS) on pre and spraying primer | pared surface at the rate of | |
| | Net Total | 900.000sqm | @73.49/sqm | 66141.00 | |
| 4.006 | 5.7.1 | | | | |
| | Providing, laying and rolling of clost thickness composed of 11.2 mm to grade bitumen (VG - 30) to the req | 0.09 mm (Type | -A) aggregates using | viscosity | |

| Sl No | Specification | Quantity | Rate | Amount |
|-------|--|------------|---------------|---------------|
| | course on a previously prepared base, including mixing in a suitable HMP of appropriate capacity not less than 75 tonnes/hour., laying and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to the required level and grade. | | | |
| | Net Total | 600.000sqm | @211.89/sqm | 127134.00 |
| 4.007 | 5.8.a | | | |
| | Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder (VG 30) laid on the prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. Grading I - 19 mm nominal chipping size | | | |
| | Net Total | 600.000sqm | @113.75/sqm | 68250.00 |
| 4.008 | 5.2.b | | | |
| | Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom. | | | |
| | Net Total | 900.000sqm | @14.49/sqm | 13041.00 |
| 4.009 | 5.3.2.a | | | |
| | Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size) | | | |
| | Net Total | 15.000cum | @8758.31/cum | 131374.65 |
| 4.010 | 5.2.a | | | |
| | Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom. | | | |
| | Net Total | 300.000sqm | @11.95/sqm | 3585.00 |
| 4.011 | 5.6.1.a | | | |
| | Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder(NRMB) @ 5.2 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - I (19 mm nominal size) | | | |
| | Net Total | 9.000cum | @13072.20/cum | 117649.80 |
| 4.012 | 12.8.B.1 | | | |
| | Plain/Reinforced Cement Concrete Technical Specifications < td=""><td></td><td></td><td>r Drawing and</td></br><> | | | r Drawing and |
| | Net Total | 660.000cum | @8377.76/cum | 5529321.60 |
| 4.013 | 12.4 | | | |
| | | | | |

| Sl No | Specification | Quantity | Rate | Amount |
|--------------|--|--|------------------------------|-------------------------|
| | Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. | | | |
| | Net Total | 1320.000cum | @6718.30/cum | 8868156.00 |
| 4.014 | OD109487/2022-2023 | | | |
| | 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 within 50 metre lead as per direction of Engineer-in-Charge. | | | |
| | | 1500.000sqm | @120.37/sqm | 180555.00 |
| 4.015 | OD109488/2022-2023 | | | |
| | Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as pethe direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost.) | | | |
| | Net Total | 1500.000sqm | @414.94/sqm | 622410.00 |
| | | ACTION AND ADDRESS OF THE PARTY | Heading Total(Rs) | 40308355.8 5 |
| | Total Estimation PAC | | | 295301692.0 8 |
| Sl No | Description | LIC WORKS | Percentage/LS | Amount |
| 5 | Lumsum Heading | | | |
| 7 001 | Water connection charges (KWA) | | | |
| 5.001 | | null | null% | 3609160.00 |
| | | Total | Lumsum Amount | 3609160.00 |
| 6 | Extra Charges | | | |
| | 2110100 01101802 | | | |
| | Provision for GST | | | |
| 5.001 | Provision for GST | 295301692.08 | 18.00% | 53154304.5 7 |
| 5.001 | Provision for GST | 295301692.08 | 18.00% Grand Total | 53154304.5 7 0.00 |
| 5.001 | Provision for GST | 295301692.08 | | 7 |
| 5.001 | Provision for GST | | Grand Total | 7 0.00 0.00 |