

**MERU WATER AND SEWERAGE SERVICES COMPANY LIMITED**

**Schedule 1 : Bills of Quantities for MEWASSCO/RFQ/CLSG II/01/2025/2026**

**CONSTRUCTION**  
**OF NEW RAW LINE**  
**TO MILIMANI**  
**WATER**  
**TREATMENT**  
**PLANT**

Intake Concrete Works  
and Laying of Pipes

**CONTRACT No. ....**

<b>BIL NO</b>	<b>ITEM DESCRIPTION</b>	<b>AMOUNT (KSh)</b>
1	Preliminary and General Items	-
2.1	Intake works	-
2.2	Settling basin	-
3	Raw Main	-
<b>GRAND TOTAL</b>		<b>-</b>

**MERU WATER AND SEWERAGE SERVICES COMPANY LIMITED**

**CONSTRUCTION OF NEW RAW LINE TO MILIMANI WATER TREATMENT PLANT**

**CONTRACT No. ....**

**PRELIMINARIES AND GENERAL ITEMS**

ITEM No.	DESCRIPTION	UNIT	Qty	R
	<b><i>CLASS A: GENERAL ITEMS</i></b>			
	<b><u>CONTRACTUAL REQUIREMENTS</u></b>			
A120.1	Insurance of Works and Contractor's Equipment and all risks. The contractor to exonerate the client from all site risks.	Sum		
	<b><u>SPECIFIED REQUIREMENTS</u></b>			
A211.1	Allow for establishment of Contractor's camp , maintainance and removal of Contractor's camp including offices, stores, laboratories, cabins, canteens etc and services including electricity, water, security, transport, staff welfare, mobilisation of equipments and materials etc	Sum		
	<b><u>Offices and Accomodation for the Engineer's staff</u></b>			
A233.1	Allow for provision and maintenance of survey equipment as specified for the sole use of the Engineer. Equipment to revert to the Contractor at the end of the Contract. The cost includes provision of survey equipment operator.	Sum		
<b>PAGE TOTAL CARRIED TO SECTION COLLECTION SHEET</b>				
	<b><u>Attendance upon MEWASS staff</u></b>			

	Provide the following Staff for the Superintending Engineer's Office. (Note: The Staff to be employed by the Contractor but to be under the exclusive day to day instruction of the MEWASS Engineer)				
A241	Sum for attendance upon Engineer's Staff by drivers (1No.)	month	5		-
A242.1	Survey Assistants (1 No.)	month	5		-
A242.2	Chainmen (1No.)	month	5		-
A244.1	Sum for attendance upon Engineer's staff by office assistants (1No)	month	5		-
	Client's Project Manager	Man months	5		-
	Client's Site Representative	Man months	5		-
	Client's Site Social Officer	Man months	5		-
	Client's Site Inspector	Man months	5		-
	<b><u>Testing of Materials and inspection of Works</u></b>				-
A250.1	Allow a sum for concrete test cubes; samples and methods of testing as specified or directed by the Engineer	sum	1		-
A269.6	Preparation of 'As Built' Drawings and O&m manual by the Contractor	Item	1		-
	<b><u>Temporary Works</u></b>				-
A270	Provide and erect sign boards at the site indicated by the Project Manager's Representative and in accordance with the Conditions of Contract and as shown on Drawing	Nr	2		-
A278	Allow a provisional sum of KES. 550,000 for installation of gabions to hold the pipeline in position or remedy the tough terrain formation of	Item	1		-

	the pipeline as directed the Engineer				
					-
	<b><u>Method Related Charges</u></b>				-
					-
A311.1	Allow for all the cost involved in comply with ESIA management and Monitoring plan as directed by the Engineer	Item	1		-
					-
A311.2	Allow for obtaining abstraction permit, water fees and any other statutory obligation as required by WRA and other statutory site approvals during implementation of the project. The rate should include incidental costs for official site visits by government agencies and departmental officers	Item	1		-
					-
A311.3	Allow a maintainng of services by MEWASSCO or any other institution and for statutory costs for road crossings. Liaison with these Authorities to be responsibility of the Contractor for the timely execution of the works.	Item	1		-
					-
	<b><u>Other Provisional Sums</u></b>				-
					-
A429.1	Allow a sum of Kshs 506,494 for the MEWASSCO miscellaneous accounts to be spent in whole or part as instructed by the Engineer and to be reimbursed against receipts during site progress monthly meetings, inspections and monitoring and evaluation meetings, as shall be approved by the Engineer	Item	1		-
					-
	Allow percentage for Overheads and profits for Items A311.2-A429.1		1.00		-
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**Bill No 1 Total carried to Grand Summary Page**

MERU WATER AND SEWERAGE SERVICES COMPANY LIMITED

CONSTRUCTION OF NEW RAW LINE TO MILIMANI WATER TREATMENT PLANT

CONTRACT No. ....

BILL No. 2.1 : INTAKE AND INTAKE CANAL WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
	<p>NOTES:</p> <p>The works for the intake will be within the existing and operating intake and 300mm Dia Raw water Main. The working space will be restricted to and within the intake and valve chambers .The Installation of an additional 315mm dia pipe at the valve chamber will entail jointing the existing outlet pipe and commissioning equentially to ensure uninterrupted supply of water to existing raw water pipe then to Milimani Treatment Plant. Specific conditions in</p>				

execution of Works in such conditions will be deemed to be included in the Contractor's Rates. Once started, the works are expected to proceed speedily to commissioning which may require use of rapid handening cement. The Contractor will be required to submit Method Statement for execution of Works in these specific conditions for approval prior to execution of the Works. The conditions include, but are not limited to the following:

- i) No blasting will be permitted
- ii) The contractor to maintain continous water supply to the operating raw water Main at all times
- iii) Safety hoading, lighting, bands, warning signs, etc to be maintained at all times.

#### CLASS A: GENERAL ITEMS

##### Method Related Charges

The tenderer may insert in the Bill of Quantities such items for Method-Related-Charges as he may decide to cover items of work relating to his intended method of executing the works, the cost of which are not to be considered as proportional to the quantities of the other items and which are not allowed in the rates and prices for the other items therein.

2.1A341	Provision of Materials and Equipment	sum	1		-
2.1A355	Provision for keeping section of the intake to sustain uninterrupted water supply to the raw water main during any demolition works and construction of intake works	sum	1		-
2.1A324	Provision of Site Environment, Health and Safety Supervision	Mon ths	5		-
2.1A371	Provision of Method Related Supervision	Mon ths	5		-
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
	<u>INTAKE , INTAKE CANAL, EMERGENCY WEIR AND EXCESS SPILLWAY CHANNEL</u>				
	<u>CLASS D: DEMOLITIONS AND SITE CLEARANCE</u>				
	<u>Site clearance of entire area ( weir, intake and canal)- intake works site, trees to be cleared to be identified by the Engineer: Rate to include for carting away and disposing cleared</u>				
2.1D100.1	General Site clearance	m <sup>2</sup>	300		0

2.1D210.1	Girth not exceeding 0.5m	No	5		0
	<u>Demolition of Concrete works</u>				
2.1D521.1	Demolish and Remove the part of the harden concrete intake wall to provide for W500mm X H500mm an orifice for the sluice and dispose off waste material ;volume n.e 0.2m3	sum	1		0
2.1D541	Cut and Remove the existing coarse screen to the intake chamber, 2m long and 2m wide (20 X 10mm MS flat sheet) dispose off waste the material , volume n.e 0.1m <sup>3</sup>	sum	1		0
	<u>CLASS E: EARTHWORKS</u>				
	Excavation shall include for strutting, timbering, stabilising excavated surfaces and dewatering. It shall also include trimming and compaction of the excavated surfaces as required.				
2.1E	For all strutting, shuttering, sheet piling, stabilising the excavation faces, and keeping the excavation free of water by pumping, bailing or other means and using sand bags to aid constructions	Item	1		0
2.1E412	Excavation for top soil to depths not exceeding 300mm	m <sup>3</sup>	32		0



	<u>Excavated in material other than topsoil, rock or artificial hard material</u>				
2.1E321	Maximum depth not exceeding 0.5m	m <sup>3</sup>	498		0
	<u>Excavated in rock</u>				
2.1E335	Maximum depth n.e.5m	m <sup>3</sup>	200		0
	<u>Excavation ancillaries</u>				
2.1E512	Preparation of excavated surfaces to receive blinding concrete	m <sup>2</sup>	50		0
	Disposal of excavated materials. Approved material shall be retained for backfilling and unsuitable material shall be disposed to tip as directed by the Engineer.				
2.1E531	Disposal of topsoil off the site	m <sup>3</sup>	32		0
2.1E532	Disposal of material other than top soil, rock or other hard artificial material	m <sup>3</sup>	124		0
2.1E533	Disposal of excavated in rock	m <sup>3</sup>	108		0
2.1E634.2	<u>Filling</u> Fill approved quarry material hardcore and compact to stability	m <sup>3</sup>	87		0
2.1E638	Backfill with selected fill material	m <sup>3</sup>	29		0
	<u>CLASS F: INSITU CONCRETE:</u>				

	Provide and place concrete, vibrate, compact and cure concrete in the following 'elements of the structure as per details on drawings				
2.1F521	<u>Intake Canal Lining</u> Shotcrete to stabilise canal excavation surface beneath lining in rock or as directed - thickness: 25 mm	m <sup>2</sup>	4		0
2.1F511	<u>Mass Concrete Class 15</u> Plain concrete Class 15 in 75mm blinding layer under canal and wing wall foundation to specifications BS 5328(1990), of max. 20mm Aggregate	m <sup>3</sup>	8		0
	<u>Vibrated, Reinforced Concrete Class 25</u>				
2.1G241.1	Sides of 200mm Base Slab; canal bases	m <sup>3</sup>	2		0
2.1F622.2	100mm thick Reinforced concrete; class 25; canal walls	m <sup>3</sup>	4		0
	<u>Vibrated, Reinforced Concrete Class 30/40 Including quick handening</u>				
2.1G241.1	Weir body raised by n.e 1 metre	m <sup>3</sup>	3		0

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	<u>CLASS G: CONCRETE ANCILLARIES</u>				
	<u>Formwork-Fair finish</u>				

	Provide and fix shuttering including propping, strutting and striking all as specified				
	<u>(i) Vertical width not exceeding 0.2m</u>				
2.1G242	Sides of 200mm Base Slab; intake and bypass canal	m <sup>2</sup>	8		0
	Reinforcement				
2.1G523	Provide and fix high tensile steel reinforcement to BS 4449 including cutting, bending, propping, with spacers and tying as specified in the drawings				
	10mm diameter	kg	1400		0
2.1G523	12 mm diameter	kg	800		0
2.1G524	16 mm diameter	kg	250		0
	<b><u>Construction Joints</u></b> Provide and install the following waterstops in construction joints including all surface treatment, formwork, forming of rebate and sealing of rebate with polysulphide sealant all as per Drawings and Specification				
2.1G652	200 mm wide expansive super-cast water foil PVC or similar approved waterstop in construction joints in walls	m	30		0
	<b><u>CLASS N: MISCELLANEOUS METAL WORK</u></b>				

2.1N999.4	Supply and fix galvanized mild steel coarse screen, 2m long and 2m wide (20 X 10mm MS flat sheet) at spacing 50 mm and at vertical angle 70 degrees. Include for provision and fixing of frame into concrete walls. All as per details on drawings	nr	2		0
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**MERU WATER AND SEWERAGE SERVICES  
COMPANY LIMITED**

**CONSTRUCTION OF NEW RAW WATER PIPELINE TO MILIMANI WATER TREATMENT PLANT**

**CONTRACT No. ....**

**BILL No. 2.2 : SETTLING BASIN-( MILIMANI)**

ITEM	DESCRIPTION	UNIT	QUANTITY
	SETTLING BASIN AND FLUSHING CHANNEL		

	<b><u>CLASS D: DEMOLITIONS AND SITE CLEARANCE</u></b>				
	Site clearance for settling basin site, trees to be cleared to be identified by the Engineer: Rate to include for carting away and disposing cleared				
2.2D1 00.1	General Site clearance	m <sup>2</sup>	294		0
	<b><u>Stumps</u></b>				
2.2D3 10.1	Diameter not exceeding 500 mm	nr.	2		0
2.2D3 10.2	Diameter 500 mm - 1m	nr.	1		0
2.2D3 10.3	Diameter exceeding 1m	nr.	1		0
	<b><u>CLASS E: EARTHWORKS</u></b>				
	Excavation shall include for strutting, timbering, stabilising excavated surfaces and dewatering. It shall also include trimming and compaction of the excavated surfaces as required.				
2.2E4 12	Excavation for top soil to depths not exceeding 300mm	m <sup>3</sup>	10.8		0
	<b><u>Excavated in material other than topsoil, rock or artificial hard material</u></b>				
2.2E3 22	Maximum depth not exceeding 5m	m <sup>3</sup>	468		0

	<b><u>Excavated in rock</u></b>				
2.2E3 36	Maximum depth n.e.5m	m <sup>3</sup>	126		0
	<b><u>Excavation ancillaries</u></b>				
2.2E5 12	Preparation of excavated surfaces to receive blinding concrete	m <sup>2</sup>	294		0
	Disposal of excavated materials. Approved material shall be retained for backfilling and unsuitable material shall be disposed to tip as directed by the Engineer.				
2.2E5 31	Disposal of topsoil off the site	m <sup>3</sup>	11		0
2.1E5 32	Replacement of unstable material beyond excavation profile in lined canal by soil-cement fill	m <sup>3</sup>	468		0
2.2E5 32	Disposal of material other than top soil, rock or other hard artificial material	m <sup>3</sup>	126		0
	<b><u>Filling</u></b>				
2.2E6 38	Backfill with selected fill material	m <sup>3</sup>	149		0
	<b><u>CLASS F: INSITU CONCRETE:</u></b>				
	Provide and place concrete, vibrate,				

	compact and cure concrete in the following 'elements of the structure as per details on drawings				
	<b><u>Mass Concrete Class 15</u></b>				
2.2F5 11	Plain concrete Class 15 in 75mm blinding layer undersettling basin foundation to specifications BS 5328(1990), of max. 20mm Aggregate	m <sup>3</sup>	11		0
	<b><u>Vibrated, Reinforced Concrete Class 25</u></b>				
2.2F6 22.1	250mm thick base Reinforced concrete; class 25	m <sup>3</sup>	37.5		0
2.2F6 22.2	250mm thick Reinforced concrete walls ; class 25	m <sup>3</sup>	105		0
	<b><u>CLASS G: CONCRETE ANCILLARIES</u></b>				
	<b><u>Formwork-Fair finish</u></b>				
	Provide and fix shuttering including propping, strutting and striking all as specified				
	<b><u>(i) Vertical width not exceeding 0.1m</u></b>				
2.2G2 41.1	Sides of 250mm Base Slab	m <sup>2</sup>	34		0
	<b><u>(ii) Vertical Formwork - width 0.1 -0.2m</u></b>				
2.2G2 41.2	Sides of walls, height n.e. 4.0m - including channel and walls	m <sup>2</sup>	294		0

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
	<b>Reinforcement</b>				
	Provide and fix high tensile steel reinforcement to BS 4449 including cutting, bending, propping, with spacers and tying as specified in the drawings				
2.2G5 23	10 mm diameter	kg	3,000		0
2.2G5 24	12 mm diameter	kg	1,200		0
2.2G5 25	16 mm diameter	kg	850		0
	<b><u>Construction Joints</u></b>				
	Provide and install the following waterstops in construction joints including all surface treatment, formwork, forming of rebate and sealing of rebate with polysulphide sealant all as per Drawings and Specification				
2.2G6 52	250 mm wide expansive super-cast water foil PVC or similar approved waterstop in construction joints in walls	m	34		0
	<b><u>CLASS N:</u></b> <b><u>MISCELLANEOUS METAL</u></b>				



<b>WORK</b>					
2.2N9 99.2	Supply and install two Galvanized mild steel 0.6mm plate 1.2m by 1.0m at the inlet gate complete with its frame and manual operating wheel . Make sure it is burglar proof.	nr	2		0
2.2N9 99.3	Supply and install four Galvanized mild steel 0.6mm plate 1.2m by 1.0m outlet flushing gate complete with its frame and manual operating wheel Make sure it is burglar proof	nr	4		0
2.2N9 99.4	Supply and install Control Sluice gate Valves dn 200mm. The rate to include pipe spigots, bolts and gaskets and end pipe for discharging water	nr	5		0

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**MERU WATER AND SEWERAGE SERVICES COMPANY LIMITED**

**CONSTRUCTION OF NEW RAW LINE TO MILIMANI WATER TREATMENT PLANT**

**CONTRACT No. ....**

**Bill No. 3: - 1.548 KM RAW WATER GRAVITY MAIN**

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
3-D18	<p><b><u>CLASS D: DEMOLITION AND SITE CLEARANCE</u></b></p> <p><b>Note:- Trench width and minimum cover to pipes is as per the Specification. The cost shall include for strutting, shuttering, stabilizing the earth faces of trenches and keeping the trenches free of water from whatever source by pumping or other means and cost of use of selected soil from the excavated material for compaction in bed and surround to backfilling of trenches, etc., all as specified.</b></p> <p>Clear site 2m wide along the alignment of the pipeline in readiness of the excavation. The rate shall include uprooting of any tree stumps and any superficial hindrances like rocks, fences and reinstate as directed by the Engineer</p>	m	1,548		0

3-D19	Excavate trenches not exceeding 900mm wide and 2000mm deep in ordinary soil. General clearance for pipeline including grubbing out all shrubs etc, removal of all trees of girth < 0.5m, demolition and carting away natural and artificial articles, objects and obstructions which are above the original surface, 3m on either side of the water pipeline	m	1,548		0
3-D20	Extra over excavation in trenches in hard and rocky grounds .  <b><u>Tree Cutting (Provisional)</u></b>  Cut down trees, grub up roots and cart away to tips <i>(Note:- Girth shall be measured 1.0 m above the ground level)</i>	m 3	1,000		0
3-D21	Girth: not exceeding 0.25 m	Number	10		0
3-D21	Girth: within 0.251m to 0.75 m	Number	15		0
<b><u>CLASS I: PIPE WORK - PIPES</u></b>					
<b><u>SUPPLY, DELIVER AND LAY PIPES</u></b>					
	Supply, deliver and store, handle, joint pipes and lay in excavated trenches, prepare excavated surfaces, dispose pff extra material, protect excavated trenches against falling, bed 100mm depth and backfill in layers of 300mm after laying pipes.				

3-I731	Supply and deliver Pipes to site store and handle safely				
	Supply Double flanged steel pipe, Ordinary Diameter 315mm PN 16 in 12m lengths. The cost should include trn labours for excavation, labour, concrete works for pillars, haunching as necessary on river crossings, laying , etc	No.	17		0
	Supply OD315mm HDPE PE 100, PN 10 Pipes in 12m lengths.	No.	62		-
	Supply OD315mm HDPE PE 100, PN 12.5 Pipes in 12m lengths.	No.	50		-
	<b>Transport pipes to site and Lay pipes on 100mm soft material bed. The rate should include handling safely, transporting to site, butt fusion welding of pipes, bends, and fitting points, etc</b>				
	Install OD315mm HDPE PE 100, PN 10 Pipes in 12m lengths.	No.	62	-	-
	Install Supply OD315mm HDPE PE 100, PN 12.5 Pipes in 12m lengths.	No.	50	-	-
3-K612	<b><u>Crossings</u></b>				
	Provide support river, road and valley crossings for 300mm dia steel raw water delivery pipe as width 20 m; at chainages 0+640 and 0+720km. And any other point as directed by engineer and as shown in drawings. The rate should	No.	5		0

	include reinforced concrete piers of class 25 Concrete, cured to 28 days, done with timber form work				
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
3-J633	<p><b>CLASS J: PIPEWORK-FITTINGS AND VALVES</b>  <i>Supply,deliver, store and transport to installation site and fix. The rate is all inclusive upto buglar proofing and installation sundries, with rubber or heavy duty gasket as shall be approved by the Engineer</i></p> <p><i>Sectional Valves on OD 315MM Main Pipeline and OD 110 MM Washouts</i>  <u>Sluice Valves to PN16:DF to DIN 3352 PART 4, FACE TO FACE dimension to DIN 3202 part1, F5, flanges and drilling to ISO 7005-2, PN 10 (Type AVK - Denmark or similar approved) as specified</u></p> <p><b>Double Collars to PN16 as specified</b>  Supply and install nominal bore 315/315 HDPE/Steel stepped coupling complete with HDPE stub end and flange, bolts, nuts, gasket and steel pipe weld-on</p>	Number	4		0

	flange.					
3-J331	Supply and install nominal bore 110mm flexible HDPE couplings (for washouts)	Number	4		0	
3-J323	Supply and install OD315mm steel saddle clamps complete with bolting with OD 110MM level invert flanged branch (for washouts)	Number	4		0	
3-J323	Supply and install OD 315MM steel saddle clamps with DN80 flanged branch (for air valves)	Number	4		0	
3-J811.1	Nominal bore 80mm isolating double flanged steel sluice valve for Air Valves	Nr	4		0	
3-J811.2	Nominal bore 100mm double flanged sluice valve with tee-key operation (for washouts)	Nr	4		0	
3-J811.3	Supply and install OD 315mm ranger steel coupling complete with bolts and nuts.	Number	10		0	
3-J811.3	Supply and install OD 315mm ranger adopter coupling complete with bolts and nuts.	Number	10		0	
3-J811.3	Supply and install OD 315 MM Double flanged Steel Sluice Valves to DIN 3352 PART 4, FACE TO FACE dimension to DIN 3202	Number	5		0	

	part1, F5, flanges and drilling to ISO 7005-2, PN 16 (Type AVK - Denmark or similar approved)				
	<b><u>Fixed Flanged Adaptors to PN16 as specified</u></b>				
3-J351	Nominal bore 100mm flanged HDPE adaptors (for washouts) Straight specials to PN10 as specified	Number	4		0
3-J381.1	Nominal bore 80mm double flanged riser HDPE piece 600- 1200mm long for air valves	Number	4		0
3-J381.2	Nominal bore 100mm flanged HDPE spigot 750mm long with a central thrust flange for washouts	Number	4		0
	<b><u>Supply Air Valves</u></b>				
3-J861	Nominal bore 80mm flanged double Steel orifice air valve	Nr	4		0

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<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (Kshs)</b>	
	<b><u>CLASS K: PIPEWORK-PIPEWORK ANCILLARIES</u></b>				
	Chambers, ducts, culverts, crossings, thrust and anchor blocks, reinstatement and others as listed and specified in drawings. <b>Note:-</b> Items for work in this class shall include:- - Excavation, preparation of				

	<p>surfaces, disposal of excavated material, shoring sides of excavation, backfilling and removal of redundant services.  - Concrete, reinforcement, formwork, joints and finishes.  Tips for disposal of excavated material or debris to be identified by the Contractor in liaison with the Local Authority. rate shall include excavation costs etc</p>				
3-K211	<p><b><u>Air valve Chambers with lockable covers</u></b></p> <p>Provide all materials and construct Air valve chambers as detailed in drawings.SRC/W/03-02  Depth 2 - 2.5 m</p>	Number	4		0
3-K23-1	<p><b><u>Washout Chambers with lockable covers</u></b></p> <p>Provide all materials and construct valve box for washout as detailed in drawings.SRC/W/03-01  To include a concrete outfall works depth 1.5 - 2.0 m</p>	Number	4		0
3-K211	<p><b><u>Section valves Chamber with lockable covers</u></b></p> <p>Depth 2 - 2.5 m</p>	nr	4		0
	<p><b><u>CLASS L: PIPEWORK - SUPPORTS AND PROTECTION AXILLARIES TO LAYING AND EXCAVATION.</u></b></p>				



	<b><u>Extras to Excavation and Backfilling (Provisional)</u></b>					
	<b><u>In Pipe Trench &amp; Chambers</u></b>					
	<b><u>Concrete Support, Thrust Blocks and Anchor Blocks</u></b>					
3-L731	<b><u>Note:-</u></b> The work includes pipe and fitting fixing	Nr	1			0
	To pipes nominal bore not exceeding 80 mm (for washout valves)					
	<b><u>Mass concrete Class 15</u></b>					
	<b><u>Concrete thrust blocks as shown SRC/W/03-03</u></b>					
3-L734.1	DN 315 , 11.25 Volume 0.24m3	Nr	4			0
3-L734	DN 315 , 22.5 Volume 0.24m3	Nr	4			0
3-L734	DN 315 , 45 Volume 0.24 m3	Nr	2			0
3-L734	DN 315 , 90 Volume 0.32m3	Nr	1			0
3-A260.1	<b><u>CLASS A: GENERAL ITEM</u></b>	m	1,548			0
	Pipeline testing and commissioning for the whole work on this line, including all necessary equipment, materials and works necessary for testing, such as thrust and anchor blocks, transportation and use of water, pipe fittings, disposal of used water.					

3- A260.2	Disinfection of Pipe lines: flushing with clear water, filling with water containing 0.05 g/l calcium hypochlorite, left for 24 hours. This includes supply of all necessary equipment, materials, chemicals and water, measurement of residual chlorine, all as specified.	m	1,548		0	
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