

Gothatuwa New Water Tower

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/WT-1 : CONSTRUCTION OF 1500 M³ CAPACITY WATER TOWER

GOTHATUWA NEW WATER TOWER

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Earth Works Rate to include for excavation, shoring & dewatering (where necessary), backfilling, ramming, compacting and removal of all surplus or unsuitable material elsewhere as directed by the Engineer.								
	For Excavation in any Material other than Rock								
WT 1 - 1	Up to an average depth not exceeding 2.0m.	m ³	330						
WT 1 - 2	Up to an average depth of 2.0 m to 4.0 m	m ³	96						
WT 1 - 3	Rock excavation (Provisional Quantity)	m ³	15						
WT 1 - 4	Filling, ramming and compacting with selected gravely material from approved barrow site (Provisional Quantity)	m ³	15						
WT 1 - 5	Filling, ramming and compacting inside the tower under the ground floor slab with sand.	m ³	50						
	Concrete Rate to include for all formwork, supply & placing of concrete as specified.								
	Concrete in Grade 15								
WT1 - 6	In 75mm thick blinding	m ²	230						
	Total of Page B - 127 Carried to Bill Summary								

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				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Rate to include for all formwork, supporting system, supply and placing concrete (with temperature control) and curing as specified. (Reinforcement measured separately)								
	Concrete in Grade 25								
WT 1 - 7	In foundation bottom ring beam and pipe trench walls.	m ³	200						
WT 1 - 8	In shaft wall, platforms, beams beneath walkway, floor slab, pipe supports, hood, ramp.	m ³	150						
	Concrete Grade as depicted in drawings								
WT 1 - 9	In conical floor, bottom spherical shell of tank with platform, tank walls, all ring beams (including bottom ring beam of the tank), inner shaft including platforms, tank roof (dome) and platform, perimeter kerb wall around the tank roof, lantern wall etc as depicted in drawings	m ³	445						
	Reinforcement								
	Rate to include for supply and delivery to the yard, storing, cutting and bending, transport to the site, cleaning as specified and to the approval of the Engineer (if necessary) and erection, placing in position tied with GI binding wire complete as depicted in drawings								
	For Tower								
WT 1 - 10	Tor Steel	MT	125						
WT 1 - 11	Mild Steel	MT	4						
	Total of Page B - 128 Carried to Bill Summary								

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	<u>Doors and Windows</u>								
WT 1 - 12	Supply and fix concrete window Type 3 (800 x 1200mm overall size) as depicted in Drg.Nos.KMU/WT/ST-01. Rate to include for supply and fix aluminium mesh with frame.	Nr	8						
WT 1 - 13	Supply and fix glazed aluminium window Type 4 (600 x 900mm overall size) above dome top level as depicted in Drg.Nos.KMU/WT/ST-01 (1No.window openable, 3Nos.window-fixed). Rate to include for supply and fix aluminium mesh with frame.	Nr	4						
WT 1 - 14	Approved galvanized steel door Type D3 with hinges, locks etc., supply and fix to working order as depicted in detail Drg.Nos.KMU/WT/ST-01. Rate to include for all fittings required for fixing etc. and painting as specified.	Nr	1						
WT 1 - 15	Approved galvanized steel door Type D4 with hinges, locks etc., supply and fix to working order as depicted in detail Drg.Nos.KMU/WT/ST-01. Rate to include for all fittings required for fixing etc. and painting as specified.	Nr	1						
	<u>Plaster Work</u>								
	Rendering 20 mm thick cement and sand (1:3) and finished smooth with neat cement floating as specified and as depicted in drawings;								
WT 1 - 16	On concrete floor and ramp	m ²	100						
	Total of Page B - 129 Carried to Bill Summary								

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ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
WT 1 - 17	Plastering 16 mm thick cement lime and sand (1:1:5) and finished smooth with lime putty as specified and as depicted in Drawings. On soffit plaster for hood	m ²	3						
WT 1 - 18	Plastering 20 mm thick cement lime and sand (1:1:5) and finished semi rough as specified and as depicted in Drawings. On hood top and finished with two coats bitumen and blinded with sand	m ²	3						
WT 1 - 19	Allow for coating inside the water tank surfaces with cementitious modified mortar as per Specifications.	m ²	1500						
	Painting & Decorating								
WT1 - 20	Allow for treating the spherical roof with heat reflecting paint to the approval of the Engineer.	Item							
WT1 - 21	Allow for preparing and apply painting all exposed exterior surfaces with painting system D - weather shield paint as specified in Technical Specifications.	Item							
WT1 - 22	Allow for preparing and applying paint on all internal surfaces with painting system D as specified in Technical Specifications.	Item							
	Total of Page B - 130 Carried to Bill Summary								

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ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<u>Electrical Installation</u>								
	Rate to include for all materials (all uPVC conduites and wiring as specified, fittings of approved make & approved by the Engineer) supplied, fixed and complete to the working order as depicted in Drawings and directed by the Engineer.								
WT 1 - 23	Allow for electrical wiring lamps, socket outlet, fluorescent luminaire etc., all complete to working order as depicted in Drawings.	Item							
WT 1 - 24	Allow for supply and fix lightning conductor complete with necessary copper strips, clips earth rod, earth chamber as depicted in the drawings.	Item							
WT 1 - 25	Allow for supply and fix air craft warning lights approved quality of Sri Lanka, Civil Aviation Authority and as specified in Technical Specification with necessary cable, fittings etc., complete to working order.	Nr	1						
	<u>Miscellaneous</u>								
WT 1 - 26	Allow for supply and fix lightning conductor complete with necessary copper strips, clips earth rod, earth chamber as depicted in the drawings.	Item							
WT 1 - 27	Allow for supplying and fixing 3 Nos.aluminium ladder inside the tank (inner shaft), 1No.stainless steel ladder inside of water tank and 1No.aluminium ladder top of the dome and lantern as depicted in Drg.No KMU/WT/ST-06	Item							
Total of Page B - 131 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/WT-1 : CONSTRUCTION OF 1500 M³ CAPACITY WATER TOWER

GOTHATUWA NEW WATER TOWER

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
WT 1 - 28	Allow for supply and fix stair cases (1,2&2) as depicted in Drg.No KMU/WT/ST-02.	Item							
WT 1 - 29	Allow for supply and fix 32mm heavy duty GI pipe hand railing as depicted in Drg.No. KMU/WT/ST-01. Rate to include for sand blasting of GI pipes application of 2 coats of anticorrosive and enamel paint as specified and as directed.	Item							
WT 1 - 30	Allow for supply and fix MS hot dip galvanized rungs and chequered plate covers to pipe trench as depicted in Drg.No KMU/WT/ST-01	Item							
WT 1 - 31	Supply and fix 670 x 670 stainless steel grating in platforms inside tank as depicted in Drg.No KMU/WT/ST-01	Nr	2						
WT 1 - 32	Supply and fix stainless steel hook on to the roof as depicted in Drg.No KMU/WT/ST-01	Nr	1						
WT 1 - 33	Allow for supply and fix 8Nos. 63mm dia galvanized steel roof drain pipe 750mm long fixed in position.	Item							
WT 1 - 34	Allow for construction of RC 300 x 300mm surface drain around the shaft up to the site drain. Rate to include for necessary formwork, reinforcement, concrete cement rendering etc., to complete the work as depicted in Drg.No KMU/WT/ST-01	Item							
WT 1 - 35	Allow for performing plate bearing test at foundation level (rate only)	Item							
WT 1 - 36	Allow for leakage testing & disinfection of the structure after completion.	Item							
	Total of Page B - 132 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : KMU/WT-1 SUM

CONSTRUCTION OF 1,500 m³ CAPACITY WATER TOWER

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 1	Page B - 127 of Bill WT 1			
	Page B - 128 of Bill WT 1			
	Page B - 129 of Bill WT 1			
	Page B - 130 of Bill WT 1			
	Page B - 131 of Bill WT 1			
	Page B - 132 of Bill WT 1			
KMU/WT-1	Total of KMU/WT-1 Summary to KMU/WT Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/WT-2 : SUPPLY AND DELIVERY OF DI PIPES AND FITTINGS

GOTHATUWA NEW WATER TOWER

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<p>All pipes (except flange pipes) shall be Class-K9 All fittings except Tees and Flange pipes shall be Class-K12 All Flanges shall be of PN 16 All Tees shall be Class-K14</p> <p>Supply and Delivery at site all DI pipes, fittings, valves & specials including rubber rings, lubricant, gaskets, bolts & nuts, Denso primer, paste, protection tape and all other associated material required for complete installation.</p> <p><u>Inlet Pipe to Tower</u></p>								
WT 2 - 1	450 mm dia. 2825 mm long. DI PE/PE Pipe Welded Puddle Flange	Nr	1						
WT 2 - 2	450 mm dia. Flange Adapter for DI Pipe.	Nr	1						
WT 2 - 3	450 x 450 mm dia. DI All Flanged Tee.	Nr	1						
WT 2 - 4	450 mm dia. 3750 mm long DI D/F Pipe Piece.	Nr	1						
WT 2 - 5	450 mm dia. 5000 mm long DI D/F Pipe.	Nr	1						
WT 2 - 6	450 mm dia. 4000 mm long DI D/F Pipe.	Nr	2						
WT 2 - 7	450 mm dia. 2025 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 8	450 mm dia. Slip-on Coupling with harness.	Nr	1						
WT 2 - 9	450 mm dia. 2000 mm long DI Flange and P/E Pipe Piece.	Nr	1						
	Total of Page B - 134 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/WT-2 : SUPPLY AND DELIVERY OF DI PIPES AND FITTINGS

GOTHATUWA NEW WATER TOWER

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 2 - 10	450 mm dia D/F Bell Mouth	Nr	1						
	<u>Bypass Line to Tower</u>								
WT 2 - 11	450 mm dia. 1900 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 12	450 mm dia. Flange Adapter for DI Pipe	Nr	2						
WT 2 - 13	450 mm dia. D/F 11 1/4° Bend.	Nr	1						
WT 2 - 14	450 mm dia. 2300 mm long DI Flange and P/E Pipe Piece.	Nr	1						
	<u>Outlet Pipe from Tower</u>								
WT 2 - 15	450 mm dia. DI D/F Bell Mouth	Nr	1						
WT 2 - 16	450 mm dia. 1815 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 17	450 mm Flange Adaptor for DI Pipe.	Nr	2						
WT 2 - 18	450 mm dia. 1945 mm long DI D/F Pipe Piece.	Nr	1						
WT 2 - 19	450 mm dia. 5000 mm long DI D/F Pipe Piece.	Nr	2						
WT 2 - 20	450 mm dia. 865 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 21	450 mm dia. 2000 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 22	450 mm dia. DI All Flange Tee	Nr	1						
	Total of Page B - 135 Carried to Bill Summary								

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BILL OF QUANTITIES

BILL NO : KMU/WT-2 : SUPPLY AND DELIVERY OF DI PIPES AND FITTINGS

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ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 2 - 23	450 mm dia. 1800 mm long DI P/E Pipe with Welded Puddle Flange	Nr	1						
WT 2 - 24	450 mm dia. VJ Coupling.	Nr	1						
WT 2 - 25	450 mm dia. Slip-on Coupling with harness.	Nr	1						
	<u>Overflow & Scour Pipe From Tower</u>								
WT 2 - 26	300 mm dia DI D/F Bell Mouth	Nr	1						
WT 2 - 27	300 mm dia. 1225 mm long DI Flanged and P/E Pipe with Welded Puddle Flange.	Nr	1						
WT 2 - 28	300 mm dia 1360 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 29	300 mm dia. Flange Adaptor for DI Pipe.	Nr	4						
WT 2 - 30	300 x 300 mm dia. DI All Flanged Tee.	Nr	1						
WT 2 - 31	300 mm dia 5000 mm long DI D/F Pipe Piece.	Nr	1						
WT 2 - 32	300 mm dia. 2375 mm long DI Flange and P/E Pipe Piece. with Puddle Flange	Nr	1						
WT 2 - 33	300 mm dia. 2500 mm long DI D/F Pipe Piece.	Nr	1						
WT 2 - 34	300 mm dia DI D/F 90° Duckfoot Bend	Nr	2						
	Total of Page B - 136 Carried to Bill Summary								

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BILL OF QUANTITIES

BILL NO : KMJ/WT-2 : SUPPLY AND DELIVERY OF DI PIPES AND FITTINGS

GOTHATUWA NEW WATER TOWER

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 2 - 35	300 mm dia. 1475 mm long DI flange and P/E pipe piece.	Nr	1						
WT 2 - 36	300 mm dia. 4000 mm long DI D/F Pipe Piece	Nr	1						
WT 2 - 37	300 mm dia. 5000 mm long DI D/F Pipe Piece	Nr	1						
WT 2 - 38	300 mm dia. 2540 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 39	300 mm dia 1050 mm long DI D/F Pipe Piece.	Nr	1						
WT 2 - 40	300 mm dia. 1875 mm long DI PE/PE with Welded Puddle Flange.	Nr	1						
WT 2 - 41	300 mm dia. VJ Coupling	Nr	2						
WT 2 - 42	300mm dia. Slip-on Coupling with harness	Nr	1						
	<u>New Pipe Connection to Existing Tank</u>								
WT 2 - 43	150 mm dia DI D/F Bell Mouth	Nr	1						
WT 2 - 44	150 mm dia. 5000 mm long DI D/F Pipe Piece	Nr	2						
WT 2 - 45	150 mm dia. 2500 mm long DI D/F Pipe with Welded Puddle Flange	Nr	1						
WT 2 - 46	150 mm dia 1000 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 47	150 mm dia Flange Adaptor for DI Pipe.	Nr	2						
	Total of Page B - 137 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/WT-2 : SUPPLY AND DELIVERY OF DI PIPES AND FITTINGS

GOTHATUWA NEW WATER TOWER

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 2 - 48	150 mm dia 2000 mm long DI D/F Pipe Piece.	Nr	1						
WT 2 - 49	150 mm dia. 4000 mm long DI D/F Pipe Pece	Nr	1						
WT 2 - 50	150 mm dia 1420 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 2 - 51	150 mm dia 2230 mm long DI D/F Pipe Piece.	Nr	1						
WT 2 - 52	150 mm dia. DI D/F 90° Duckfoot Bend.	Nr	1						
WT 2 - 53	150 mm dia 1890 mm long DI P/E Pipe with Welded Puddle Flange.	Nr	1						
WT 2 - 54	150 mm dia. VJ Coupling.	Nr	1						
WT 2 - 55	150 mm dia. Slip-on Coupling with harness.	Nr	1						
	Valves								
WT 2 - 56	450 mm dia Butterfly Valve	Nr	2						
WT 2 - 57	300 mm dia Gate Valve	Nr	1						
WT 2 - 58	150 mm dia. Gate Valve	Nr	1						
Total of Page B - 138 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : KMU/WT-2 SUM

SUPPLY AND DELIVERY OF DI PIPES AND FITTINGS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 2	Page B - 134 of Bill WT 2			
	Page B - 135 of Bill WT 2			
	Page B - 136 of Bill WT 2			
	Page B - 137 of Bill WT 2			
	Page B - 138 of Bill WT 2			
KMU/WT-2	Total of KMU/WT-2 Summary to KMU/WT Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/WT-3 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

GOTHATUWA NEW WATER TOWER

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Rate to include for laying & installation of DI pipes, fittings, valves, specials, pipe cutting, pipe bedding, thrust blocks, anchor blocks, concrete surrounding, pipe brackets, supports etc. and including excavation, shoring, dewatering and backfilling where necessary, construction of chambers, DI manhole covers etc., connecting to existing line, cutting existing lines, complete as depicted in drawing complete.								
	<u>Inlet pipe to Tower</u>								
WT 3 - 1	450 mm dia. 2825 mm long. DI PE/PE Pipe welded Puddle Flange	Nr	1						
WT 3 - 2	450 mm dia. Flange Adapter for DI Pipe.	Nr	1						
WT 3 - 3	450 x 450 mm dia. DI all Flanged Tee.	Nr	1						
WT 3 - 4	450 mm dia. 3750 mm long DI D/F Pipe Piece.	Nr	1						
WT 3 - 5	450 mm dia. 5000 mm long DI D/F Pipe.	Nr	1						
WT 3 - 6	450 mm dia. 4000 mm long DI D/F Pipe.	Nr	2						
WT 3 - 7	450 mm dia. 2025 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 8	450 mm dia. SLIP on Coupling with harness.	Nr	1						
WT 3 - 9	450 mm dia. 2000 mm long DI Flange and P/E Pipe Piece.	Nr	1						
	Total of Page B - 140 Carried to Bill Summary								

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WT 3 - 10	450 mm dia D/F Bell Mouth	Nr	1						
	<u>Bypass Line to Tower</u>								
WT 3 - 11	450 mm dia. 1900 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 12	450 mm dia. Flange Adapter for DI Pipe	Nr	2						
WT 3 - 13	450 mm dia. D/F 11 1/4° Bend.	Nr	1						
WT 3 - 14	450 mm dia. 2300 mm long DI Flange and P/E Pipe Piece.	Nr	1						
	<u>Outlet Pipe from Tower</u>								
WT 3 - 15	450 mm dia. DI D/F Bell Mouth	Nr	1						
WT 3 - 16	450 mm dia. 1815 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 17	450 mm Flange Adapter for DI Pipe.	Nr	2						
WT 3 - 18	450 mm dia. 1945 mm long DI D/F Pipe Piece.	Nr	1						
WT 3 - 19	450 mm dia. 5000 mm long DI D/F Pipe Piece.	Nr	2						
WT 3 - 20	450 mm dia. 865 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 21	450 mm dia. 2000 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 22	450 mm dia. DI All Flange Tee	Nr	1						
	Total of Page B - 141 Carried to Bill Summary								

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WT 3 - 23	450 mm dia. 1800 mm long DI P/E Pipe with welded Puddle Flange	Nr	1						
WT 3 - 24	450 mm dia. VJ Coupling.	Nr	1						
WT 3 - 25	450 mm dia. Slip-on Coupling with harness	Nr	1						
	<u>Overflow & Scour Pipe From Tower</u>								
WT 3 - 26	300 mm dia DI D/F Bell Mouth	Nr	1						
WT 3 - 27	300 mm dia. 1225mm long DI Flanged and P/E Pipe with welded Puddle Flange.	Nr	1						
WT 3 - 28	300 mm dia 1360 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 29	300 mm dia. Flange Adapter for DI Pipe.	Nr	4						
WT 3 - 30	300 x 300 mm dia. DI All Flanged Tee.	Nr	1						
WT 3 - 31	300 mm dia 5000 mm long DI D/F Pipe Piece.	Nr	1						
WT 3 - 32	300 mm dia. 2375 mm long DI Flange and P/E Pipe Piece with Puddle Flange.	Nr	1						
WT 3 - 33	300 mm dia. 2500 mm long DI D/F Pipe Piece.	Nr	1						
WT 3 - 34	300 mm dia DI D/F 90° duckfoot Bend	Nr	2						
WT 3 - 35	300 mm dia. 1475mm long DI Flange and P/E Pipe Piece.	Nr	1						
	Total of Page B - 142 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/WT-3 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

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ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 3 - 36	300 mm dia. 4000 mm long DI D/F Pipe Piece	Nr	1						
WT 3 - 37	300 mm dia. 5000 mm long DI D/F Pipe Piece	Nr	1						
WT 3 - 38	300 mm dia. 2540 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 39	300 mm dia 1050 mm long DI D/F Pipe Piece.	Nr	1						
WT 3 - 40	300 mm dia. 1875 mm long DI PE/PE with Welded Puddle Flange.	Nr	1						
WT 3 - 41	300 mm dia. VJ Coupling	Nr	2						
WT 3 - 42	300 mm dia. Slip-on Coupling with harness.	Nr	1						
	<u>New Pipe Connection to Existing Tank</u>								
WT 3 - 43	150 mm dia DI D/F Bell Mouth	Nr	1						
WT 3 - 44	150 mm dia. 5000 mm long DI D/F Pipe Piece	Nr	2						
WT 3 - 45	150 mm dia. 2500 mm long DI D/F Pipe with welded Puddle Flange	Nr	1						
WT 3 - 46	150 mm dia 1000 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 47	150 mm dia Flange Adapter for DI Pipe.	Nr	2						
	Total of Page B - 143 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/WT-3 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

GOTHATUWA NEW WATER TOWER

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 3 - 48	150 mm dia 2000 mm long DI D/F Pipe Piece.	Nr	1						
WT 3 - 49	150 mm dia. 4000 mm long DI D/F Pipe Piece	Nr	1						
WT 3 - 50	150 mm dia 1420 mm long DI Flange and P/E Pipe Piece.	Nr	1						
WT 3 - 51	150 mm dia 2230 mm long DI D/F Pipe Piece.	Nr	1						
WT 3 - 52	150 mm dia. DI D/F 90° Duckfoot Bend.	Nr	1						
WT 3 - 53	150 mm dia 1890 mm long DI P/E Pipe with Welded Puddle Flange.	Nr	1						
WT 3 - 54	150 mm dia. VJ Coupling.	Nr	1						
WT 3 - 55	150 mm dia. sli-pn Coupling with harness.	Nr	1						
	Valves								
WT 2-56	450 mm dia Butterfly Valve	Nr	2						
WT 2-57	300 mm dia Gate Valve	Nr	1						
WT 2-58	150 mm dia. Gate Valve	Nr	1						
	Total of Page B - 144 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : KMU/WT-3 SUM

LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
WT 3	Page B - 140 of Bill WT 3 Page B - 141 of Bill WT 3 Page B - 142 of Bill WT 3 Page B - 143 of Bill WT 3 Page B - 144 of Bill WT 3			
KMU/WT-3	Total of KMU/WT-3 Summary to KMU/WT Grand Summary			

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Distribution Mains in Kotikawatte and Mulleriyawa Area

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<p>All pipes shall be Class - K9 Flange pipes and all fittings except Tees shall be Class - K12 All Tees shall be Class - K14 All Flanges shall be of PN 16</p> <p>Supply and Delivery at site all DI pipes and fittings including rubber rings, lubricant, gaskets, bolts & nuts, Denso primer, paste, protection tape and all other associated material required for complete installation</p> <p>Distribution Main (DI)</p> <p>Socket & Spigot Pipes</p>								
DM 1 - 1	250 mm dia	m	213						
DM 1 - 2	300 mm dia	m	10,579						
DM 1 - 3	400 mm dia	m	1,764						
DM 1 - 4	500 mm dia	m	381						
	Double Socket Bends								
	300 mm dia								
DM 1 - 5	11 1/4°	Nr	29						
DM 1 - 6	22 1/2°	Nr	34						
DM 1 - 7	45°	Nr	14						
	Total of Page B - 147 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1 - 8	90° 400 mm dia	Nr	5						
DM 1 - 9	11 1/4°	Nr	7						
DM 1 - 10	22 1/2° 500 mm dia	Nr	11						
DM 1 - 11	11 1/4°	Nr	1						
DM 1 - 12	22 1/2° For Junctions in Distribution Mains (DJ) All Flanged Tees	Nr	1						
DM 1 - 13	200 x 200 mm dia	Nr	1						
DM 1 - 14	250 x 80 mm dia	Nr	1						
DM 1 - 15	300 x 150 mm dia	Nr	2						
DM 1 - 16	300 x 200 mm dia	Nr	2						
DM 1 - 17	300 x 300 mm dia	Nr	3						
DM 1 - 18	500 x 500 mm dia	Nr	2						
Total of Page B - 148 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Socketted Tees with Flange Branch								
DM 1 - 19	300 x 80 mm dia	Nr	3						
DM 1 - 20	300 x 100 mm dia	Nr	5						
DM 1 - 21	300 x 150 mm dia	Nr	9						
DM 1 - 22	400 x 80 mm dia	Nr	1						
DM 1 - 23	400 x 100 mm dia	Nr	2						
DM 1 - 24	400 x 300 mm dia	Nr	1						
DM 1 - 25	400 x 400 mm dia	Nr	2						
DM 1 - 26	500 x 100 mm dia	Nr	1						
DM 1 - 27	500 x 150 mm dia	Nr	5						
DM 1 - 28	500 x 300 mm dia	Nr	1						
	All Socket Tees								
DM 1 - 29	300 x 300 mm dia	Nr	5						
DM 1 - 30	500 x 500 mm dia	Nr	2						
	Total of Page B - 149 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Double Socket Bends								
DM 1 - 31	300 mm dia 45°	Nr	1						
DM 1 - 32	500 mm dia 11 1/4°	Nr	1						
DM 1 - 33	22 1/2°	Nr	1						
	Double Flanged Tapers								
DM 1 - 34	300 - 100 mm dia	Nr	2						
DM 1 - 35	300 - 150 mm dia	Nr	1						
DM 1 - 36	300 - 200 mm dia	Nr	4						
DM 1 - 37	500 - 300 mm dia	Nr	3						
DM 1 - 38	500 - 400 mm dia	Nr	1						
	Double Socket Tapers								
DM 1 - 39	400 - 300 mm dia	Nr	1						
	Flange Adaptors								
DM 1 - 40	90 mm dia PVC	Nr	2						
	Total of Page B - 150 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1 - 41	110 mm dia PVC	Nr	3						
DM 1 - 42	160 mm dia PVC	Nr	8						
DM 1 - 43	225 mm dia PVC	Nr	2						
DM 1 - 44	250 mm dia DI	Nr	1						
DM 1 - 45	300 mm dia DI	Nr	14						
DM 1 - 46	400 mm dia DI	Nr	1						
DM 1 - 47	500 mm dia DI	Nr	4						
	Blank Flanges								
DM 1 - 48	250 mm dia	Nr	1						
DM 1 - 49	300 mm dia	Nr	3						
DM 1 - 50	400 mm dia	Nr	2						
	Slip-on Couplings								
DM 1 - 51	500 mm dia	Nr	1						
	Total of Page B - 151 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	For Section Valves								
	Flange Spigot Pipes with Puddle Flange (Length to puddle from spigot end 1150mm)								
DM 1 - 52	400 mm dia 1800 mm long	Nr	2						
DM 1 - 53	500 mm dia 1800 mm long	Nr	3						
	Plain Ended Spigot Piece								
DM 1 - 54	400 mm dia 1425 mm long (Approx.)	Nr	2						
DM 1 - 55	500 mm dia 1425 mm long (Approx.)	Nr	3						
	Slip-on Couplings								
DM 1 - 56	400 mm dia	Nr	2						
DM 1 - 57	500 mm dia	Nr	3						
	For Culvert Crossings in Distribution Main								
	Plain Ended Spigot Pipe Pieces								
DM 1 - 58	150 mm dia 3000 mm long	Nr	1						
DM 1 - 59	150 mm dia 3500 mm long	Nr	1						
DM 1 - 60	200 mm dia 1500 mm long	Nr	2						
	Total of Page B - 152 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1 - 61	200 mm dia 3000 mm long	Nr	11						
DM 1 - 62	200 mm dia 3500 mm long	Nr	1						
DM 1 - 63	200 mm dia 4000 mm long	Nr	4						
DM 1 - 64	200 mm dia 5000 mm long	Nr	1						
DM 1 - 65	200 mm dia 5500 mm long	Nr	2						
	Slip-on Couplings								
DM 1 - 66	160 mm dia PVC/150 mm dia DI	Nr	4						
DM 1 - 67	225 mm dia PVC/200 mm dia DI	Nr	34						
DM 1 - 68	300 mm dia DI	Nr	27						
DM 1 - 69	400 mm dia DI	Nr	7						
	<u>For Bridge Crossing at Delgahawatta Road in Distribution Main (DI)</u>								
	Plain Ended Pipe Piece								
DM 1 - 70	300mm dia 2000mm long	Nr	2						
	Double Flange Pipe Piece								
DM 1 - 71	300mm dia 4000mm long	Nr	7						
	Total of Page B - 153 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1 - 72	Flanged Bend 300mm dia 45°	Nr	4						
DM 1 - 73	Slip on Couplings 300mm dia DI	Nr	2						
	<u>For Bridge Crossing at Angoda Rd. in Distribution Main (DI)</u>								
DM 1 - 74	Plain Ended Pipe Piece 300mm dia 2000mm long	Nr	2						
DM 1 - 75	Double Flange Pipe Piece 300mm dia 4000mm long	Nr	3						
DM 1 - 76	Flanged Bend 300mm dia 45°	Nr	4						
DM 1 - 77	Slip on Couplings 300mm dia DI	Nr	2						
	Total of Page B - 154 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<u>For Air Valves in Distribution Main (DI)</u>								
	Socketted Tee with Flange Branch								
DM 1 - 78	300 x 80 mm dia	Nr	12						
DM 1 - 79	400 x 100 mm dia	Nr	3						
	Double Flange Pipe								
DM 1 - 80	80 mm dia approx.200 mm long	Nr	12						
DM 1 - 81	100 mm dia approx.200 mm long	Nr	3						
	<u>For Air Valves in Bridge Crossing at Delgahawatta Rd. in Distribution Main</u>								
	All Flanged Tee								
DM 1 - 82	300 x 80 mm dia	Nr	1						
	<u>For Air Valves in Bridge Crossing at Angoda Rd. in Distribution Main</u>								
	All Flanged Tee								
DM 1 - 83	300 x 80 mm dia	Nr	1						
	<u>For Washouts in Distribution Main (DI)</u>								
	Socketted Level Invert Tee with Flange branch								
DM 1 - 84	300 x 80 mm dia	Nr	10						
	Total of Page B - 155 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1 - 85	400 x 100 mm dia <u>For Washout in Bridge Crossing at Delgahawatta Rd. in Distribution Main</u> Socketted Level Invert Tee with Flange branch	Nr	3						
DM 1 - 86	300 x 80 mm dia <u>For Washout in Bridge Crossing at Angoda Rd. in Distribution Main</u> Socketted Level Invert Tee with Flange branch	Nr	2						
DM 1 - 87	300 x 80 mm dia <u>For Fire Hydrants in Distribution Main (DI)</u> All Socket Tee	Nr	2						
DM 1 - 88	300 x 80 mm dia	Nr	6						
DM 1 - 89	400 x 80 mm dia	Nr	2						
DM 1 - 90	500 x 80 mm dia Double Flange Bends 80 mm dia	Nr	1						
DM 1 - 91	90°	Nr	11						
	Total of Page B - 156 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : KMU/DM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1 - 92	Double Flange Pipe Piece 80 mm dia 600 mm long (Approx.)	Nr	11						
DM 1 - 93	Flanged Adaptors 80 mm dia DI	Nr	9						
DM 1 - 94	90 mm dia PVC	Nr	2						
Total of Page B - 157 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : KMU/DM-1 SUM

SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1	Page B - 147 of Bill DM 1			
	Page B - 148 of Bill DM 1			
	Page B - 149 of Bill DM 1			
	Page B - 150 of Bill DM 1			
	Page B - 151 of Bill DM 1			
	Page B - 152 of Bill DM 1			
	Page B - 153 of Bill DM 1			
	Page B - 154 of Bill DM 1			
	Page B - 155 of Bill DM 1			
	Page B - 156 of Bill DM 1			
	Page B - 157 of Bill DM 1			
KMU/DM-1	Total of KMU/DM-1 Summary to KMU/DM Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-2 : SUPPLY AND DELIVERY OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	All pipes and fittings shall be with rubber ring joints unless specified All PVC pipes & fittings shall be - Type 1000 All flanges shall be PN-16 Supply and Delivery at site all PVC pipes and fittings including rubber rings, jointing materials and all other associated materials required for complete installation								
	For Distribution Main (PVC)								
	PVC Pipes								
DM 2 - 1	110 mm dia	m	9,486						
DM 2 - 2	160 mm dia	m	3,931						
DM 2 - 3	225 mm dia	m	9,906						
	PVC Double Socket Bends								
	110 mm dia								
DM 2 - 4	11 1/4°	Nr	4						
DM 2 - 5	22 1/2°	Nr	47						
DM 2 - 6	45°	Nr	21						
DM 2 - 7	90°	Nr	3						
	Total of Page B - 159 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-2 : SUPPLY AND DELIVERY OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	160 mm dia								
DM 2 - 8	11 1/4°	Nr	3						
DM 2 - 9	22 1/2°	Nr	22						
DM 2 - 10	45°	Nr	25						
DM 2 - 11	90°	Nr	1						
	225 mm dia								
DM 2 - 12	11 1/4°	Nr	18						
DM 2 - 13	22 1/2°	Nr	42						
DM 2 - 14	45°	Nr	25						
DM 2 - 15	90°	Nr	2						
	Warning Tapes								
DM 2 - 16	Warning tapes for pipes	m	23,323						
	For Junctions in Distribution Main								
	PVC Double Socket Bends								
	90 mm dia								
DM 2 - 17	90°	Nr	1						
	Total of Page B - 160 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-2 : SUPPLY AND DELIVERY OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 2 - 18	110 mm dia 90°	Nr	6						
DM 2 - 19	160 mm dia 45°	Nr	1						
DM 2 - 20	90°	Nr	5						
DM 2 - 21	225 mm dia 22 1/2°	Nr	1						
DM 2 - 22	PVC All Socketted Tees 90 x 90 mm dia	Nr	6						
DM 2 - 23	110 x 90 mm dia	Nr	5						
DM 2 - 24	110 x 110 mm dia	Nr	11						
DM 2 - 25	160 x 110 mm dia	Nr	2						
DM 2 - 26	160 x 160 mm dia	Nr	6						
DM 2 - 27	225 x 90 mm dia	Nr	3						
DM 2 - 28	225 x 110 mm dia	Nr	3						
Total of Page B - 161 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-2 : SUPPLY AND DELIVERY OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 2 - 29	225 x 160 mm dia	Nr	2						
DM 2 - 30	225 x 225 mm dia	Nr	11						
	All Socket Tee (Solvent Cement Type)								
DM 2 - 31	50 x 50 mm dia	Nr	1						
	Socketted Tee with Flange Branch								
DM 2 - 32	63 x 63 mm dia	Nr	3						
DM 2 - 33	90 x 90 mm dia	Nr	6						
DM 2 - 34	110 x 110 mm dia	Nr	8						
DM 2 - 35	160 x 160 mm dia	Nr	8						
DM 2 - 36	225 x 90 mm dia	Nr	1						
DM 2 - 37	225 x 110 mm dia	Nr	1						
DM 2 - 38	225 x 160 mm dia	Nr	2						
	PVC Reducers - Tapers								
DM 2 - 39	90 - 63 mm dia (spigot & socket)	Nr	1						
DM 2 - 40	110 - 63 mm dia (spigot & socket)	Nr	3						
	Total of Page B - 162 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-2 : SUPPLY AND DELIVERY OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 2 - 41	110 - 90 mm dia (spigot & socket)	Nr	1						
DM 2 - 42	160 - 110 mm dia (spigot & socket)	Nr	4						
DM 2 - 43	63 - 50 mm dia (socket & spigot)	Nr	1						
DM 2 - 44	110 - 90 mm dia (socket & spigot)	Nr	1						
DM 2 - 45	225 - 160 mm dia (socket & spigot)	Nr	5						
	PVC Bell Ended Sleeves								
DM 2 - 46	63 mm dia	Nr	3						
DM 2 - 47	90 mm dia	Nr	12						
DM 2 - 48	110 mm dia	Nr	14						
DM 2 - 49	160 mm dia	Nr	18						
DM 2 - 50	225 mm dia	Nr	2						
	PVC End Caps								
DM 2 - 51	110 mm dia	Nr	3						
DM 2 - 52	160 mm dia	Nr	2						
DM 2 - 53	225 mm dia	Nr	9						
	Total of Page B - 163 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-2 : SUPPLY AND DELIVERY OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<u>For Air Valves in Distribution Main</u>								
	PVC Branch Saddle Complete with Rubber Seal, Gun Metal Threaded Insert								
DM 2 - 54	110 x 25 mm dia	Nr	4						
DM 2 - 55	160 x 25 mm dia	Nr	4						
DM 2 - 56	225 x 25 mm dia	Nr	4						
	<u>For Washouts in Distribution Main</u>								
	PVC Pipes								
DM 2 - 57	90 mm dia (Provisional Quantity)	m	168						
DM 2 - 58	110 mm dia (Provisional Quantity)	m	18						
	PVC Socket & Spigot Bends								
	90 mm dia								
DM 2 - 59	45°	Nr	18						
	PVC All Socketted Tees								
DM 2 - 60	110 x 90 mm dia	Nr	4						
DM 2 - 61	160 x 90 mm dia	Nr	4						
	Total of Page B - 164 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-2 : SUPPLY AND DELIVERY OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 2 - 62	225 x 90 mm dia Tapered Core / Tapered Flange	Nr	10						
DM 2 - 63	90 mm dia Pipe	Nr	28						
DM 2 - 64	110 mm dia Pipe For Fire Hydrants	Nr	3						
DM 2 - 65	PVC All Socket Tees 225 x 90 mm dia	Nr	2						
Total of Page B - 165 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-3 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<p>All Flanges shall be PN-16 All Valves shall be with non-rising spindles</p> <p>Supply and Delivery at site all valves, fire hydrants, materials for waste meter chambers etc. as specified and as shown on Drawings including jointing material, Denso primer, paste & protection tape and all other associated materials required for complete installation</p> <p>Section Valves in Distribution Main</p> <p>Gate Valves (Resilient Seated)</p>								
DM 3 - 1	50 mm dia	Nr	4						
DM 3 - 2	80 mm dia	Nr	12						
DM 3 - 3	100 mm dia	Nr	26						
DM 3 - 4	150 mm dia	Nr	22						
DM 3 - 5	200 mm dia	Nr	19						
DM 3 - 6	300 mm dia	Nr	15						
	Butterfly Valves (Resilient Seated)								
DM 3 - 7	400 mm dia	Nr	2						
DM 3 - 8	500 mm dia	Nr	3						
	Total of Page B - 167 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-3 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Flanged Adaptors for Section Valves								
DM 3 - 9	63 mm dia PVC	Nr	5						
DM 3 - 10	90 mm dia PVC	Nr	13						
DM 3 - 11	110 mm dia PVC	Nr	35						
DM 3 - 12	160 mm dia PVC	Nr	25						
DM 3 - 13	225 mm dia PVC	Nr	33						
DM 3 - 14	300 mm dia DI	Nr	22						
DM 3 - 15	400 mm dia DI	Nr	2						
DM 3 - 16	500 mm dia DI	Nr	3						
DM 3 - 17	600 mm dia heavy duty hinged type manhole covers	Nr	5						
DM 3 - 18	150 x 150 mm lockable heavy duty surface box	Nr	103						
	For Air Valve in Distribution Main								
	Single Orifice Air Valve with isolating Cock								
DM 3 - 19	25 mm body size (25 mm ferrule)	Nr	12						
	Double Orifice Air Valve								
DM 3 - 20	80 mm dia	Nr	12						
	Total of Page B - 168 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-3 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 3 - 21	100 mm dia Gate Valves (Resilient Seated)	Nr	3						
DM 3 - 22	80 mm dia	Nr	12						
DM 3 - 23	100 mm dia	Nr	3						
DM 3 - 24	Stainless steel pipe 25 mm dia with threaded end length approx. 600 mm	Nr	12						
DM 3 - 25	600 mm dia ventilated heavy duty hinged type manhole covers For Air Valve in Bridge Crossing at Delgahawatta Rd. Double Orifice Air Valve	Nr	27						
DM 3 - 26	80 mm dia Gate Valves (Resilient Seated)	Nr	1						
DM 3 - 27	80 mm dia For Air Valve in Bridge Crossing at Angoda Rd. Double Orifice Air Valve	Nr	1						
DM 3 - 28	80 mm dia Gate Valves (Resilient Seated)	Nr	1						
DM 3 - 29	80 mm dia	Nr	1						
Total of Page B - 169 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-3 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<u>For Washouts in Distribution Main</u>								
	Gate Valves (Resilient Seated)								
DM 3 - 30	80 mm dia	Nr	28						
DM 3 - 31	100 mm dia	Nr	3						
	Flanged Adaptors								
DM 3 - 32	90 mm dia PVC	Nr	18						
DM 3 - 33	600 mm dia heavy duty hinged type manhole covers	Nr	31						
DM 3 - 34	150 x 150 mm lockable heavy duty surface box	Nr	31						
	<u>For Washouts in Bridge Crossing at Delgahawatta Rd.</u>								
	Gate Valves (Resilient Seated)								
DM 3 - 35	80 mm dia	Nr	2						
DM 3 - 36	150 x 150 mm lockable heavy duty surface box	Nr	2						
	<u>For Washouts in Bridge Crossing at Angoda Rd.</u>								
	Gate Valves (Resilient Seated)								
DM 3 - 37	80 mm dia	Nr	2						
DM 3 - 38	150 x 150 mm lockable heavy duty surface box	Nr	2						
	Total of Page B - 170 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-3 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	For Fire Hydrants								
	Gate Valves (Resilient Seated)								
DM 3 - 39	80 mm dia	Nr	11						
	Screw Down Type Fire Hydrant with Flange								
DM 3 - 40	80 mm dia	Nr	11						
DM 3 - 41	600 mm dia fire hydrant manhole cover	Nr	11						
	For Waste Meter Chambers in Distribution Main								
DM 3 - 42	50mm dia gunmetal straight ferrule	Nr	2						
DM 3 - 43	600 mm dia heavy duty hinged type manhole covers	Nr	2						
	Total of Page B - 171 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : KMU/DM-3 SUM

SUPPLY AND DELIVERY OF VALVE, FIRE HYDRANTS AND SPECIALS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 3	Page B - 167 of Bill DM 3 Page B - 168 of Bill DM 3 Page B - 169 of Bill DM 3 Page B - 170 of Bill DM 3 Page B - 171 of Bill DM 3			
KMU/DM-3	Total of KMU/DM-3 Summary to KMU/DM Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<p><u>Laying & Jointing in Open Trench DI Pipes Specials & Fittings as Specified.</u></p> <p>Rate to include for making of trial holes, excavation, cutting pipes, shoring & dewatering, bedding Type A unless otherwise specified, backfilling or filling with selected material (where necessary), compaction & disposal of excess & unsuitable material as directed by the Engineer and reinstatement of surface etc. as required.</p> <p><u>Distribution Main (DI)</u></p> <p>Depth to invert of pipe not exceeding 1.5m</p>								
DM 4 - 1	250 mm dia	m	213						
DM 4 - 2	300 mm dia	m	10579						
	<p>Extra over above items for depth to invert exceeding 1.5m (Provisional Quantity)</p>								
DM 4 - 3	250 mm dia pipe	m	10						
DM 4 - 4	300 mm dia pipe	m	670						
	<p>Depth to invert of pipe not exceeding 2m</p>								
DM 4 - 5	400 mm dia pipe	m	1764						
DM 4 - 6	500 mm dia pipe	m	381						
	Total of Page B - 173 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Extra over above item for depth to invert exceeding 2m (Provisional Quantity)								
DM 4 - 7	400 mm dia pipe	m	152						
DM 4 - 8	500 mm dia pipe	m	45						
	Extra over above items for special bedding type in permanently water logged areas (Provisional Quantity)								
	Rate to include for taking counter measures against floating of pipes during the laying process, dewatering, supply and laying of geotextile, removal of unsuitable material and supplying and filling with imported material, compaction and disposal of excess materials as directed by the Engineer and reinstatement of surface etc as required.								
DM 4 - 9	300 mm dia pipes	m	150						
DM 4 - 10	400 mm dia pipes	m	639						
	Extra over Items for Double Socket Bends in Distribution Main								
	Rate to include for providing supports, thrust blocks, anchor blocks etc.								
	Rate to include for additional excavation, shoring, dewatering, construction of concrete thrust block and all necessary items of work required for complete installation of bends.								
	Total of Page B - 174 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Double Socket Bends								
	300 mm dia								
DM 4 - 11	11 1/4°	Nr	29						
DM 4 - 12	22 1/2°	Nr	34						
DM 4 - 13	45°	Nr	14						
DM 4 - 14	90°	Nr	5						
	400 mm dia								
DM 4 - 15	11 1/4°	Nr	7						
DM 4 - 16	22 1/2°	Nr	11						
	500 mm dia								
DM 4 - 17	11 1/4°	Nr	1						
DM 4 - 18	22 1/2°	Nr	1						
	Extra over Items for Junctions in Distribution Mains (DI)								
	Rate to include for additional excavation, shoring, dewatering, construction of concrete thrust blocks and all necessary items of work required for complete installation of junctions, and protection of joints where necessary.								
	Total of Page B - 175 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMJ/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	All Flanged Tees								
DM 4 - 19	200 x 200 mm dia	Nr	1						
DM 4 - 20	250 x 80 mm dia	Nr	1						
DM 4 - 21	300 x 150 mm dia	Nr	2						
DM 4 - 22	300 x 200 mm dia	Nr	2						
DM 4 - 23	300 x 300 mm dia	Nr	3						
DM 4 - 24	500 x 500 mm dia	Nr	2						
	Socketted Tees with Flange Branch								
DM 4 - 25	300 x 80 mm dia	Nr	3						
DM 4 - 26	300 x 100 mm dia	Nr	5						
DM 4 - 27	300 x 150 mm dia	Nr	9						
DM 4 - 28	400 x 80 mm dia	Nr	1						
DM 4 - 29	400 x 100 mm dia	Nr	2						
DM 4 - 30	400 x 300 mm dia	Nr	1						
DM 4 - 31	400 x 400 mm dia	Nr	2						
	Total of Page B - 176 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 4 - 32	500 x 100 mm dia	Nr	1						
DM 4 - 33	500 x 150 mm dia	Nr	5						
DM 4 - 34	500 x 300 mm dia	Nr	1						
	All Socket Tees								
DM 4 - 35	300 x 300 mm dia	Nr	5						
DM 4 - 36	500 x 500 mm dia	Nr	2						
	Double Socket Bends								
	300 mm dia								
DM 4 - 37	45° 500 mm dia	Nr	1						
DM 4 - 38	11 1/4°	Nr	1						
DM 4 - 39	22 1/2°	Nr	1						
	Double Flanged Tapers								
DM 4 - 40	300 - 100 mm dia	Nr	2						
DM 4 - 41	300 - 150 mm dia	Nr	1						
	Total of Page B - 177 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 4 - 42	300 - 200 mm dia	Nr	4						
DM 4 - 43	500 - 300 mm dia	Nr	3						
DM 4 - 44	500 - 400 mm dia	Nr	1						
	Double Socket Tapers								
DM 4 - 45	400 - 300 mm dia	Nr	1						
	Flange Adaptors								
DM 4 - 46	90 mm dia PVC	Nr	2						
DM 4 - 47	110 mm dia PVC	Nr	3						
DM 4 - 48	160 mm dia PVC	Nr	8						
DM 4 - 49	225 mm dia PVC	Nr	2						
DM 4 - 50	250 mm dia DI	Nr	1						
DM 4 - 51	300 mm dia DI	Nr	14						
DM 4 - 52	400 mm dia DI	Nr	1						
DM 4 - 53	500 mm dia DI	Nr	4						
	Total of Page B - 178 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Blank Flanges								
DM 4 - 54	250 mm dia	Nr	1						
DM 4 - 55	300 mm dia	Nr	3						
DM 4 - 56	400 mm dia	Nr	2						
	Slip-on Couplings								
DM 4 - 57	500 mm dia	Nr	1						
	For Section Valves								
	Rate to include for providing supports, thrust blocks, anchor blocks etc. and protection of joints.								
	Flange Spigot Pipes with Puddle Flange (Length to puddle from spigot end 1150mm)								
DM 4 - 58	400 mm dia 1800 mm long	Nr	2						
DM 4 - 59	500 mm dia 1800 mm long	Nr	3						
	Plain Ended Spigot Piece								
DM 4 - 60	400 mm dia 1425 mm long (Approx.)	Nr	2						
DM 4 - 61	500 mm dia 1425 mm long (Approx.)	Nr	3						
	Total of Page B - 179 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 4 - 62	Slip-on Couplings 400 mm dia	Nr	2						
DM 4 - 63	500 mm dia	Nr	3						
	Extra over Items for Culvert Crossings in Distribution Main Complete as depicted in Drawing Rate to include for additional excavation, additional shoring, coffer damming, diversion of waterway, forming of embankment, rubble pitching, trench cutoff walls, breaking into existing structures, making good of any damage to the existing structures, road or embankment and any other items necessary to complete the culvert crossing.								
DM 4 - 64	300 mm dia Type 'A'	Nr	24						
DM 4 - 65	300 mm dia Type 'B'	Nr	1						
DM 4 - 66	300 mm dia Type 'C'	Nr	2						
DM 4 - 67	400 mm dia Type 'A'	Nr	6						
DM 4 - 68	400 mm dia Type 'C'	Nr	1						
	Total of Page B - 180 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<u>Extra over for Bridge Crossing at Delgahawatta Rd. in Distribution Main (DI)</u> Complete as depicted in Drawing Rate to include for additional excavation, shoring, dewatering, cofferdamming, diversion of water way, demolishing of existing retaining wall, extension of concrete retaining walls, making good of any damage to the existing structures, embankment, installation of pipes and fittings including installation of air valve with isolating valve, protection box etc.								
DM 4 - 69	300mm dia DI Bridge Crossing at Delgahawatta Rd.	Item	1						
DM 4 - 70	300mm dia DI Bridge Crossing at Angoda Rd.	Item	1						
	<u>For Extra over Items for Pipe Crossing in Distribution Main</u> Rate to include for making trial holes, excavation, cutting pipes, shoring or any other special supports required for protection of existing pipe and dewatering (where necessary), bedding between existing and new pipe with sand or with imported material (where necessary) compaction & laying of new pipes, backfilling or filling with imported material to the ground level and compaction it and disposal of excess material as directed by the Engineer and reinstatement of the surface.								
DM 4 - 71	400mm dia new pipe line in Kotikawatta Rd at the 600mm dia Existing line in Kolonnawa Transmission Main	Item	1						
DM 4 - 72	400mm dia new pipe line in Kotikawatta Rd at O30", O20", D20", N30" dia Existing Transmission Main lines	Item	1						
	Total of Page B - 181 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 4 - 73	300mm dia new pipe line in Angoda Rd. & Sirisumana Mawatha at 600mm dia Existing Transmission Main lines	Item	1						
DM 4 - 74	300mm dia new pipe line in Angoda Rd. & Sirisumana Mawatha at O30", O20", D20", N30" dia Existing Transmission Main lines	Item	1						
DM 4 - 75	300mm dia new pipe line in Delgahawatta Rd. at chainage 255 at 600mm dia Existing Kolonnawa Main line	Item	1						
DM 4 - 76	300mm dia new pipe line in Delgahawatta Rd. at chainage 325 at 600mm dia Existing Kolonnawa Main line	Item	1						
DM 4 - 77	300mm dia new pipe line in Udumulla Rd. at chainage 378 at 1000mm dia Existing Transmission Main line	Item	1						
DM 4 - 78	300mm dia new pipe line in Udumulla Rd. at chainage 570 at 1000mm dia Existing Transmission Main line	Item	1						
	<u>Extra over Items for Air Valve Tees and Associated Fittings in Distribution Main</u>								
	Rate to include for providing supports, thrust blocks, anchor blocks etc. and protection of joints.								
	Socketted Tee with Flange Branch								
DM 4 - 79	300 x 80 mm dia	Nr	12						
DM 4 - 80	400 x 100 mm dia	Nr	3						
	Total of Page B - 182 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<u>Extra over Items for Washout Tees and Associated Fittings in Distribution Main</u> Rate to include for providing supports, thrust blocks, anchor blocks etc. and protection of joints. Socketted Level Invert Tee with Flange branch								
DM 4 - 81	300 x 80 mm dia	Nr	10						
DM 4 - 82	300 x 80 mm dia	Nr	4						
DM 4 - 83	400 x 100 mm dia	Nr	3						
	<u>Extra over Items for Fire Hydrant Tees and Associated Fittings in Distribution Main</u> Rate to include for providing supports, thrust blocks, anchor blocks etc. and protection of joints. All Socket Tee								
DM 4 - 84	300 x 80 mm dia	Nr	6						
DM 4 - 85	400 x 80 mm dia	Nr	2						
DM 4 - 86	500 x 80 mm dia	Nr	1						
	Total of Page B - 183 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-4 : LAYING AND INSTALLATION OF DI PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<u>Field Hydrostatic Pressure and Leakage Test, Disinfection and Cleaning of Pipeline as Specified.</u>								
DM 4 - 87	250 mm dia	m	213						
DM 4 - 88	300 mm dia	m	10,579						
DM 4 - 89	400 mm dia	m	1,764						
DM 4 - 90	500 mm dia	m	381						
	<u>Miscellaneous</u>								
DM 4 - 91	Extra concrete of Grade 20 for submerged thrust blocks or anchor blocks above and over that of dry type where required and as specified by the Engineer (Provisional Quantity) Rate to include for additional excavation, additional shoring, coffer damming, dewatering, making good of any damage to the existing structures, road or embankment and any other items necessary to complete the concrete thrust block.	m ³	65						
	Total of Page B - 184 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : KMU/DM-4 SUM

LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 4	Page B - 173 of Bill DM 4			
	Page B - 174 of Bill DM 4			
	Page B - 175 of Bill DM 4			
	Page B - 176 of Bill DM 4			
	Page B - 177 of Bill DM 4			
	Page B - 178 of Bill DM 4			
	Page B - 179 of Bill DM 4			
	Page B - 180 of Bill DM 4			
	Page B - 181 of Bill DM 4			
	Page B - 182 of Bill DM 4			
	Page B - 183 of Bill DM 4			
	Page B - 184 of Bill DM 4			
KMU/DM-4	Total of KMU/DM-4 Summary to KMU/DM Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<p><u>Laying & Jointing in Open Trench PVC Pipes Specials & Fittings as Specified.</u></p> <p>Rate to include for making of trial hole, excavation, cutting pipes, shoring & dewatering, bedding Type A unless otherwise specified, backfilling or filling with selected material (where necessary), compaction & disposal of excess & unsuitable material as directed by the Engineer and reinstatement of surface etc. and installation of warning tapes as required.</p> <p><u>Distribution Main (PVC)</u></p> <p>Depth to invert of pipes not exceeding 1.2m</p>								
DM 5 - 1	110 mm dia pipe	m	9,486						
DM 5 - 2	160 mm dia pipe	m	3,931						
	Extra over above items for depth to invert of pipes exceeding 1.2 m (Provisional Quantity)								
DM 5 - 3	110 mm dia pipe	m	920						
DM 5 - 4	160 mm dia pipe	m	630						
	Depth to invert of pipes not exceeding 1.5m								
DM 5 - 5	225 mm dia pipe	m	9,906						
	Extra over above items for depth to invert of pipes exceeding 1.5 m. (Provisional Quantity)								
DM 5 - 6	225 mm dia pipe	m	220						
	Total of Page B - 186 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<p>Extra over above items for special bedding type in permanently water logged areas (Provisional Quantity)</p> <p>Rate to include for taking counter measures against floating of pipes during the laying process, dewatering, supply and laying of geotextile, removal of unsuitable material and supplying and filling with imported material, compaction and disposal of excess materials as directed by the Engineer and reinstatement of surface etc as required.</p>								
DM 5 - 7	110 mm dia pipes	m	600						
DM 5 - 8	160 mm dia pipes	m	302						
DM 5 - 9	225 mm dia pipes	m	3875						
	<p>Extra over for Socketed Bends</p> <p>Rate to include for providing supports, thrust blocks, anchor blocks etc.</p> <p>Rate to include for additional excavation, shoring, dewatering, construction of concrete thrust block and all necessary items of work required for complete installation of bends.</p>								
	<p>PVC Double Socket Bends</p> <p>110 mm dia</p>								
DM 5 - 10	11 1/4°	Nr	4						
DM 5 - 11	22 1/2°	Nr	47						
	Total of Page B - 187 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5 - 12	45°	Nr	21						
DM 5 - 13	90°	Nr	3						
	160 mm dia								
DM 5 - 14	11 1/4°	Nr	3						
DM 5 - 15	22 1/2°	Nr	22						
DM 5 - 16	45°	Nr	25						
DM 5 - 17	90°	Nr	1						
	225 mm dia								
DM 5 - 18	11 1/4°	Nr	18						
DM 5 - 19	22 1/2°	Nr	42						
DM 5 - 20	45°	Nr	25						
DM 5 - 21	90°	Nr	2						
Total of Page B - 188 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Extra Over items for Junctions in Distribution Main Complete as depicted in Drawings Rate to include for additional excavation, shoring, dewatering, construction of concrete thrust blocks and all necessary items of work required for complete installation of junctions, and protection of joints where necessary.								
	PVC Double Socket Bends								
	90 mm dia								
DM 5 - 22	90°	Nr	1						
	110 mm dia								
DM 5 - 23	90°	Nr	6						
	160 mm dia								
DM 5 - 24	45°	Nr	1						
DM 5 - 25	90°	Nr	5						
	225 mm dia								
DM 5 - 26	22 1/2°	Nr	1						
	PVC All Socketted Tees								
DM 5 - 27	90 x 90 mm dia	Nr	6						
	Total of Page B - 189 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5 - 28	110 x 90 mm dia	Nr	5						
DM 5 - 29	110 x 110 mm dia	Nr	11						
DM 5 - 30	160 x 110 mm dia	Nr	2						
DM 5 - 31	160 x 160 mm dia	Nr	6						
DM 5 - 32	225 x 90 mm dia	Nr	3						
DM 5 - 33	225 x 110 mm dia	Nr	3						
DM 5 - 34	225 x 160 mm dia	Nr	2						
DM 5 - 35	225 x 225 mm dia	Nr	11						
	All Socket Tee (Solvent Cement Type)								
DM 5 - 36	50 x 50 mm dia	Nr	1						
	Socketted Tee with Flange Branch								
DM 5 - 37	63 x 63 mm dia	Nr	3						
DM 5 - 38	90 x 90 mm dia	Nr	6						
DM 5 - 39	110 x 110 mm dia	Nr	8						
DM 5 - 40	160 x 160 mm dia	Nr	8						
	Total of Page B - 190 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5 - 41	225 x 90 mm dia	Nr	1						
DM 5 - 42	225 x 110 mm dia	Nr	1						
DM 5 - 43	225 x 160 mm dia	Nr	2						
	PVC Tapers								
DM 5 - 44	90 - 63 mm dia (spigot & socket)	Nr	1						
DM 5 - 45	110 - 63 mm dia (spigot & socket)	Nr	3						
DM 5 - 46	110 - 90 mm dia (spigot & socket)	Nr	1						
DM 5 - 47	160 - 110 mm dia (spigot & socket)	Nr	4						
DM 5 - 48	63 - 50 mm dia (socket & spigot)	Nr	1						
DM 5 - 49	110 - 90 mm dia (socket & spigot)	Nr	1						
DM 5 - 50	225 - 160 mm dia (socket & spigot)	Nr	5						
	PVC Bell Ended Sleeves								
DM 5 - 51	63 mm dia	Nr	3						
DM 5 - 52	90 mm dia	Nr	12						
DM 5 - 53	110 mm dia	Nr	14						
	Total of Page B - 191 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5 - 54	160 mm dia	Nr	18						
DM 5 - 55	225 mm dia	Nr	2						
	PVC End Caps								
DM 5 - 56	110 mm dia	Nr	3						
DM 5 - 57	160 mm dia	Nr	2						
DM 5 - 58	225 mm dia	Nr	9						
	<u>Extra over Items for Culvert Crossings in Distribution Main</u>								
	Complete as depicted in Standard Drawings								
	Rate to include for additional excavation, additional shoring, coffer damming, diversion of waterway, forming of embankment, rubble pitching, trench cutoff walls, breaking into existing structures, supply and installation of GI pipe encasement where necessary, installation of DI pipes and fittings where necessary, making good of any damage to the existing structures, road or embankment and any other items necessary to complete the culvert crossing.								
DM 5 - 59	For 110 mm dia PVC, with 150 mm dia GI encasement -crossing Type 'A'	Nr	20						
DM 5 - 60	For 110 mm dia PVC, with 150 mm dia GI encasement -crossing Type 'B'	Nr	2						
	Total of Page B - 192 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5 - 61	For 110 mm dia PVC, with 150 mm dia GI encasement -crossing Type 'C'	Nr	3						
DM 5 - 62	For 160 mm dia PVC, 150 mm DI Type 'A'	Nr	1						
DM 5 - 63	For 160 mm dia PVC, 150 mm DI Type 'B'	Nr	1						
DM 5 - 64	For 225 mm dia PVC, 200 mm DI Type 'A'	Nr	11						
DM 5 - 65	For 225 mm dia PVC, 200 mm DI Type 'B'	Nr	5						
DM 5 - 66	For 225 mm dia PVC, 200 mm DI Type 'C'	Nr	1						
	Pipe Crossings								
	Rate to include for making trial holes, excavation, cutting pipes, shoring or any other special supports required for protection of existing pipe and dewatering (where necessary), bedding between existing and new pipe with sand or with imported material (where necessary) compaction & laying of new pipes, backfilling or filling with imported material to the ground level and compaction it and disposal of excess material as directed by the Engineer and reinstatement of the surface.								
DM 5 - 67	225mm dia new pipe line in Meegoda Kolonnawa & Katupelella Rd. at O30°, O20°, D20°, N30° dia Existing lines in Low level Rd	Item	1						
DM 5 - 68	160mm dia new pipe line in Pansala Para, Jayanthi Mawatha & Batahena Rd. at 1110mm dia Existing Jubilee Transmission Main line.	Item	1						
	Total of Page B - 193 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5 - 69	<p><u>Extra over Item for Road Crossing on Lowlevel Road - Sri Parakum Mawatha Ranabima Mawatha</u> Rate to include for provide temporary by-pass road including spreading 20mm metal layer on surface during construction and remove the same on completion, protection of the all existingservice mains and other utility services throughout the construction ensuring existing services and other utility services operate without interruption, provide adequate temporary supports for all types of existing services, road crossing including temporary reinstatement.</p> <p>225mm dia at chainage 1335</p>	Item	1						
DM 5 - 70	<p><u>Extra over Item for Crossing of Course way on Weliwela Road and Nagahawela Road</u> Rate to include for disposal of unsuitable material, transport and supply of imported material of approved quality, filling and compaction to lines and levels, reinstatement with concrete Gr. to the satisfaction of the Engineer, provide temporary by-pass road (if required) and remove the same on completion, protection of the all existing service mains and other utility services throughout the construction ensuring existing services and other utility services operate without interruption .</p> <p>110mm dia at chainage 717</p>	Item	1						
Total of Page B - 194 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<p><u>Extra over Item for Crossing of Masonry Drains on Weliwela Road and Nagahawela Road</u></p> <p>Rate to include for disposal of unsuitable material, transport and supply of imported material of approved quality, filling and compaction to lines and levels, rehabilitation of concrete drains to the satisfaction of the Engineer, protection of the all existing service mains and other utility services throughout the construction ensuring existing services and other utility services operate without interruption .</p>								
DM 5 - 71	110mm dia crossing at chainage 717	Item	1						
DM 5 - 72	110mm dia crossing at chainage 1055.4	Item	1						
	<p><u>Extra over items for Air Valve associated fittings in Distribution Main</u></p> <p>Rate to include for providing supports, thrust blocks, anchor blocks etc. and protection of joints.</p>								
	PVC Branch Saddle								
DM 5 - 73	110 x 25 mm dia	Nr	4						
DM 5 - 74	160 x 25 mm dia	Nr	4						
DM 5 - 75	225 x 25 mm dia	Nr	4						
	Total of Page B - 195 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<u>Extra over items for Washout Tees in Distribution Main</u> Rate to include for additional excavation, shoring, dewatering, construction of concrete thrust blocks and all necessary items of work required for complete installation of washout tees, and protection of joints where necessary.								
	PVC All Socket Tees								
DM 5 - 76	110 x 90 mm dia	Nr	4						
DM 5 - 77	160 x 90 mm dia	Nr	4						
DM 5 - 78	225 x 90 mm dia	Nr	10						
	<u>Extra over for Fire Hydrant Tees in Distribution Main</u> Rate to include for additional excavation, shoring, dewatering, construction of concrete thrust blocks and all necessary items of work required for complete installation of fire hydrant tees, and protection of joints where necessary.								
	PVC All Socket Tees								
DM 5 - 79	225 x 90 mm dia	Nr	2						
	<u>Field Hydrostatic Pressure and Leakage Test, Disinfection and Cleaning of Pipeline as Specified.</u>								
DM 5 - 80	110 mm dia	m	9,486						
	Total of Page B - 196 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-5 : LAYING AND INSTALLATION OF PVC PIPES & FITTINGS

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5 - 81	160 mm dia	m	3,931						
DM 5 - 82	225 mm dia	m	9,906						
DM 5 - 83	<p>Miscellaneous</p> <p>Extra concrete of Grade 20 for submerged thrust blocks or anchor blocks above and over that of dry type where required and as specified by the Engineer (Provisional Quantity)</p> <p>Rate to include for additional excavation, additional shoring, coffer damming, dewatering, making good of any damage to the existing structures, road or embankment and any other items necessary to complete the concrete thrust block.</p>	m ³	30						
Total of Page B - 197 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : KMU/DM-5 SUM

LAYING AND INSTALLATION OF PVC PIPES AND SPECIALS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5	Page B - 186 of Bill DM 5			
	Page B - 187 of Bill DM 5			
	Page B - 188 of Bill DM 5			
	Page B - 189 of Bill DM 5			
	Page B - 190 of Bill DM 5			
	Page B - 191 of Bill DM 5			
	Page B - 192 of Bill DM 5			
	Page B - 193 of Bill DM 5			
	Page B - 194 of Bill DM 5			
	Page B - 195 of Bill DM 5			
	Page B - 196 of Bill DM 5			
	Page B - 197 of Bill DM 5			
KMU/DM-5	Total of KMU/DM-5 Summary to KMU/DM Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-6 : INSTALLATION OF VALVES, FIREHYDRANTS, WASTE METERS ETC.

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	<p><u>Installation of Gate Valves, Butterfly valves, Air Valves & Washouts in Distribution Main.</u></p> <p>Rate to include for making of trial hole, excavation, shoring & dewatering (where necessary), installation of all isolating valves, isolating cocks, joint protections, construction of chambers, overflow chambers, head walls, drainage, support blocks and supply & installation of PVC leadaway pipes from the valve, PVC protection pipes (Type 1000) and installation of surface boxes, manhole covers, backfilling or filling with selected material and disposal of surplus and unsuitable material as directed by the Engineer and reinstatement of surface as required and complete the installation as depicted in the drawing.</p> <p><u>Distribution Mains</u></p> <p>Installation of Gate Valve Arrangements Complete as depicted in Drawings.</p> <p>Gate Valves complete with surface box.</p>								
DM 6 - 1	50 mm dia	Nr	4						
DM 6 - 2	80 mm dia	Nr	12						
DM 6 - 3	100 mm dia	Nr	26						
DM 6 - 4	150 mm dia	Nr	22						
DM 6 - 5	200 mm dia	Nr	19						
DM 6 - 6	300 mm dia	Nr	15						
	Total of Page B - 199 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-6 : INSTALLATION OF VALVES, FIREHYDRANTS, WASTE METERS ETC.

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	Installation of Butterfly Valve Arrangements Complete as depicted in Drawings.								
	Butterfly Valve complete with Chamber and surface box								
DM 6 - 7	400 mm dia with Type 'A' chamber	Nr	2						
DM 6 - 8	500 mm dia with Type 'A' chamber	Nr	3						
	Extra over Items for Chambers Only (Provisional Quantity)								
	For depths exceeding those minimum depths indicated on Drawings								
	Rate to include for additional excavation, shoring and dewatering (where necessary), construction of additional height of the chambers, additional backfilling of selected material, and disposal of surplus and unsuitable material as directed by the Engineer.								
DM 6 - 9	Type 'A' (Provisional Quantity)	m	6						
	For Air Valves in Distribution Main								
	Installation of Air Valve Arrangements Complete as depicted in Drawings.								
	Complete with isolating cocks, Gate valves, chambers and covers.								
DM 6 - 10	25 mm dia single orifice air valve with Type 'A' chamber	Nr	12						
DM 6 - 11	80 mm dia double orifice air valve with Type 'B' chamber	Nr	12						
	Total of Page B - 200 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-6 : INSTALLATION OF VALVES, FIREHYDRANTS, WASTE METERS ETC.

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 6 - 12	100 mm dia double orifice air valve with Type 'B' chamber <u>For Washouts in Distribution Main (DI)</u> Installation of Washout Arrangements Complete as depicted in Drawings. Complete with Gate valve and chamber etc.	Nr	3						
DM 6 - 13	Washout Type 'A' 80 mm dia Gate Valve	Nr	20						
DM 6 - 14	Washout Type 'B' 80 mm dia Gate Valve	Nr	1						
DM 6 - 15	Washout Type 'C' 80 mm dia Gate Valve	Nr	7						
DM 6 - 16	Washout Type 'A' 100 mm dia Gate Valve	Nr	3						
DM 6 - 17	Washout Type 'C' 80 mm dia Gate Valve <u>For Fire Hydrants in Distribution Main</u> Installation of Fire Hydrant Arrangements Complete as depicted in Drawing Complete with Gate valve and chamber etc.	Nr	4						
DM 6 - 18	80 mm dia fire hydrant	Nr	11						
	Total of Page B - 201 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO. KMU/DM-6 : INSTALLATION OF VALVES, FIREHYDRANTS, WASTE METERS ETC.

DISTRIBUTION MAINS IN KOTIKAWATTA - MULLERIYAWA AREA

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts	Local Component Rs./cts	Foreign Component Yen.	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
	For Waste Meter Chambers in Distribution Main								
	Complete with installation of associated fittings for waste meter and chamber etc.								
DM 6 - 19	Chamber Type "A" for waste meter in DI line (500 mm dia)	Nr	2						
DM 6 - 20	Supply & erection of marker posts as depicted in Drawings.	Nr	178						
	Total of Page B - 202 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : KMU/DM-6 SUM

INSTALLATION OF VALVES, FIRE HYDRANTS AND SPECIALS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 6	Page B - 199 of Bill DM 6 Page B - 200 of Bill DM 6 Page B - 201 of Bill DM 6 Page B - 202 of Bill DM 6			
KMU/DM-6	Total of KMU/DM-6 Summary to KMU/DM Grand Summary			

SCHEDULE C

**REHABILITATION / REINFORCEMENT OF MEDIUM & LARGE
DIAMETER PIPE NETWORK IN CMC AREA**

Rehabilitation of Existing Mains

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<p>Note - 01 Rate to include for checking existing flange details and pipes diameters before ordering new materials.</p> <p>Note - 02 Rate to include for removal and handing over to NWS&DB of all defective fittings and materials.</p> <p>Cleaning and lining by cement mortar of Cast iron distribution main in any surface. Rate to including for excavation of access hole, cutting the spool, spool is removed carefully, put back spool piece, jointing, Backfilling and compacting etc. complete as directed. As per Section 6.4 of Specifications</p>								
DM 1 - 1	For nominal diameter 10"	m	13643						
DM 1 - 2	For nominal diameter 12"	m	8140						
DM 1 - 3	For nominal diameter 15"	m	4531						
DM 1 - 4	For nominal diameter 18"	m	1551						
	<p>Refurbish in-situ, or remove, refurbish and replace, bends of any radius, to facilitate lining, with nominal diameter of following items. Rate to include for excavation, backfilling and compacting as directed.</p> <p>22 1/2 deg. Bends</p>								
DM 1 - 5	3" dia. C.I.	Nr.	7						
Total of Page C - 1 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 6	4" dia C.I	Nr.	20						
DM 1 - 7	5" dia C.I	Nr.	8						
DM 1 - 8	6" dia C.I	Nr.	2						
	<u>45 deg. Bends</u>								
DM 1 - 9	4" dia C.I	Nr.	12						
DM 1 - 10	5" dia C.I	Nr.	2						
DM 1 - 11	6" dia C.I	Nr.	3						
DM 1 - 12	8" dia. C.I.	Nr.	2						
DM 1 - 13	10" dia C.I.	Nr.	4						
DM 1 - 14	12" dia. C.I.	Nr.	2						
DM 1 - 15	15" dia. C.I.	Nr.	3						
	<u>20 deg. Bends</u>								
DM 1 - 16	3" dia. C.I.	Nr.	91						
DM 1 - 17	4" dia C.I	Nr.	10						
DM 1 - 18	5" dia C.I	Nr.	7						
	Total of Page C - 2 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 19	7" dia. C.I. Extra over item Nos.DM 1-1 to 1-4 for Refurbish in-situ, or remove, refurbish and replace, bends of any radius, to facilitate lining, with nominal diameter of following items. Rate to include for excavation, backfilling and compacting as directed. 22 1/2 deg. Bend	Nr.	1						
DM 1 - 20	10" dia. C.I.	Nr.	61						
DM 1 - 21	12" dia. C.I.	Nr.	10						
DM 1 - 22	15" dia. C.I. 45 deg. Bend	Nr.	4						
DM 1 - 23	10" dia. C.I.	Nr.	14						
DM 1 - 24	12" dia. C.I.	Nr.	15						
DM 1 - 25	15" dia. C.I. 90 deg. Bend	Nr.	4						
DM 1 - 26	10" dia. C.I.	Nr.	17						
DM 1 - 27	12" dia. C.I.	Nr.	2						
DM 1 - 28	18" dia. C.I.	Nr.	1						
Total of Page C - 3 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Refurbish in-situ or remove, refurbish and replace, <u>Tee Pieces</u> on main or junctions. Rate to include for excavation, backfilling and compacting as directed.								
	<u>C.I. Tees</u>								
DM 1 - 29	3" x 3" dia.	Nr.	14						
DM 1 - 30	4" x 3" dia.	Nr.	34						
DM 1 - 31	4" x 4" dia.	Nr.	10						
DM 1 - 32	5" x 3" dia.	Nr.	3						
DM 1 - 33	5" x 5" dia.	Nr.	4						
DM 1 - 34	6" x 3" dia.	Nr.	8						
DM 1 - 35	6" x 4" dia.	Nr.	3						
DM 1 - 36	7" x 4" dia.	Nr.	1						
DM 1 - 37	7" x 7" dia.	Nr.	2						
DM 1 - 38	8" x 3" dia.	Nr.	1						
DM 1 - 39	9" x 3" dia.	Nr.	1						
DM 1 - 40	9" x 4" dia.	Nr.	2						
	Total of Page C - 4 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 41	10" x 3" dia.	Nr.	3						
DM 1 - 42	10" x 4" dia.	Nr.	5						
DM 1 - 43	10" x 5" dia.	Nr.	2						
DM 1 - 44	10" x 10" dia.	Nr.	1						
DM 1 - 45	18" x 4" dia.	Nr.	1						
DM 1 - 46	18" x 12" dia.	Nr.	1						
	C.I. "Y" Branch								
DM 1 - 47	3" x 3" dia.	Nr.	1						
DM 1 - 48	4" x 4" dia.	Nr.	1						
DM 1 - 49	5" x 5" dia.	Nr.	1						
DM 1 - 50	6" x 3" dia.	Nr.	1						
DM 1 - 51	6" x 6" dia.	Nr.	1						
DM 1 - 52	7" x 3" dia.	Nr.	1						
DM 1 - 53	20" x 12" dia.	Nr.	1						
DM 1 - 54	20" x 20" dia.	Nr.	1						
	Total of Page C - 5 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Extra over item No.DM 1-1 to 1-4 for refurbish in-situ, or remove, refurbish and replace, <u>Tee Pieces</u> on main or junctions. Rate to include for excavation, backfilling and compacting as directed. <u>C.I. Tees</u>								
DM 1 - 55	10" x 3" dia.	Nr.	33						
DM 1 - 56	10" x 4" dia.	Nr.	60						
DM 1 - 57	10" x 5" dia.	Nr.	7						
DM 1 - 58	10" x 6" dia.	Nr.	13						
DM 1 - 59	10" x 7" dia.	Nr.	1						
DM 1 - 60	10" x 8" dia.	Nr.	1						
DM 1 - 61	10" x 9" dia.	Nr.	2						
DM 1 - 62	10" x 10" dia.	Nr.	33						
DM 1 - 63	12" x 3" dia.	Nr.	22						
DM 1 - 64	12" x 4" dia.	Nr.	17						
DM 1 - 65	12" x 5" dia.	Nr.	1						
DM 1 - 66	12" x 6" dia.	Nr.	5						
	Total of Page C - 6 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 67	12" x 8" dia.	Nr.	3						
DM 1 - 68	12" x 9" dia.	Nr.	1						
DM 1 - 69	12" x 10" dia.	Nr.	2						
DM 1 - 70	12" x 12" dia.	Nr.	8						
DM 1 - 71	15" x 3" dia.	Nr.	5						
DM 1 - 72	15" x 4" dia.	Nr.	11						
DM 1 - 73	15" x 6" dia.	Nr.	2						
DM 1 - 74	15" x 7" dia.	Nr.	1						
DM 1 - 75	15" x 8" dia.	Nr.	1						
DM 1 - 76	15" x 9" dia.	Nr.	1						
DM 1 - 77	15" x 10" dia.	Nr.	2						
DM 1 - 78	15" x 12" dia.	Nr.	2						
DM 1 - 79	15" x 15" dia.	Nr.	2						
DM 1 - 80	18" x 4" dia.	Nr.	4						
DM 1 - 81	18" x 5" dia.	Nr.	3						
Total of Page C - 7 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 82	18" x 6" dia.	Nr.	3						
DM 1 - 83	18" x 9" dia.	Nr.	1						
DM 1 - 84	18" x 10" dia.	Nr.	2						
	C.I. "Y" Branch								
DM 1 - 85	10" x 3" dia.	Nr.	2						
DM 1 - 86	10" x 4" dia.	Nr.	16						
DM 1 - 87	10" x 5" dia.	Nr.	1						
DM 1 - 88	10" x 6" dia.	Nr.	1						
DM 1 - 89	10" x 10" dia.	Nr.	1						
DM 1 - 90	12" x 3" dia.	Nr.	4						
DM 1 - 91	12" x 4" dia.	Nr.	4						
DM 1 - 92	12" x 5" dia.	Nr.	3						
DM 1 - 93	12" x 6" dia.	Nr.	2						
DM 1 - 94	12" x 8" dia.	Nr.	1						
DM 1 - 95	12" x 9" dia.	Nr.	1						
	Total of Page C - 8 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 96	12" x 10" dia.	Nr.	1						
DM 1 - 97	12" x 12" dia.	Nr.	1						
DM 1 - 98	15" x 4" dia.	Nr.	1						
DM 1 - 99	15" x 8" dia.	Nr.	1						
DM 1 - 100	15" x 10" dia.	Nr.	3						
DM 1 - 101	15" x 15" dia.	Nr.	1						
	C.I. Level Invert Tees								
DM 1 - 102	10" x 3" dia. Removal & replacement of <u>sluice valve</u> either inline or on branch of junctions in extended excavation to that required. Rate to include for excavation, backfilling and compacting as directed.	Nr.	1						
DM 1 - 103	3" dia. Sluice valve	Nr.	39						
DM 1 - 104	4" dia. Sluice valve	Nr.	125						
DM 1 - 105	5" dia. Sluice valve	Nr.	16						
DM 1 - 106	6" dia. Sluice valve	Nr.	23						
DM 1 - 107	7" dia. Sluice valve	Nr.	3						
	Total of Page C - 9 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 108	8" dia. Sluice valve	Nr.	4						
DM 1 - 109	9" dia. Sluice valve	Nr.	8						
DM 1 - 110	10" dia. Sluice valve	Nr.	84						
DM 1 - 111	12" dia. Sluice valve	Nr.	33						
DM 1 - 112	15" dia. Sluice valve	Nr.	11						
DM 1 - 113	18" dia. Sluice valve	Nr.	1						
DM 1 - 114	20" dia. Sluice valve	Nr.	1						
	Refurbish in-situ, or remove, refurbish and replace, taper on main or junctions. Rate to include for excavation, backfilling and compacting as directed.								
DM 1 - 115	4" - 3" CI taper	Nr.	2						
DM 1 - 116	10" - 6" CI taper	Nr.	2						
DM 1 - 117	10" - 8" CI taper	Nr.	1						
DM 1 - 118	12" - 9" CI taper	Nr.	3						
DM 1 - 119	12" - 10" CI taper	Nr.	1						
DM 1 - 120	15" - 12" CI taper	Nr.	1						
	Total of Page C - 10 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 121	20" - 8" CI taper	Nr.	1						
DM 1 - 122	20" - 18" CI taper	Nr.	1						
DM 1 - 123	21" - 12" CI taper	Nr.	1						
	Extra over item Nos.DM 1-1 to 1-4 for refurbish in-situ, or remove, refurbish and replace, <u>taper</u> on main or junctions. Rate to include for excavation, backfilling and compacting as directed.								
DM 1 - 124	10" - 6" CI taper	Nr.	2						
DM 1 - 125	12" - 9" CI taper	Nr.	3						
DM 1 - 126	12" - 10" CI taper	Nr.	5						
DM 1 - 127	15" - 12" CI taper	Nr.	1						
DM 1 - 128	20" - 8" CI taper	Nr.	1						
	Refurbish in-situ, or remove, refurbish and replace, cross on main or junctions. Rate to include for excavation, backfilling and compacting as directed.								
DM 1 - 129	15" x 8" dia. C.I. Cross	Nr.	1						
	Extra over item Nos.DM 1-1 to 1-4 for refurbish in-situ, or remove, refurbish and replace, cross on main or junctions. Rate to include for excavation, backfilling and compacting as directed.								
	Total of Page C - 11 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 130	15" x 8" CI Cross Install new coupling suit to C.I. Pipes (Supply will be paid seperately) in the main of nominal dia. of following items (Provisional)	Nr.	1						
DM 1 - 131	3" dia. Couplings	Nr.	41						
DM 1 - 132	4" dia. Couplings	Nr.	138						
DM 1 - 133	5" dia. Couplings	Nr.	17						
DM 1 - 134	6" dia. Couplings	Nr.	29						
DM 1 - 135	7" dia. Couplings	Nr.	3						
DM 1 - 136	8" dia. Couplings	Nr.	8						
DM 1 - 138	9" dia. Couplings	Nr.	10						
DM 1 - 139	10" dia. Couplings	Nr.	770						
DM 1 - 140	12" dia. Couplings	Nr.	257						
DM 1 - 141	15" dia. Couplings	Nr.	168						
DM 1 - 142	18" dia. Couplings	Nr.	60						
DM 1 - 143	20" dia. Couplings	Nr.	3						
	Total of Page C - 12 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 144	21" dia. Couplings Install new Viking Johnson suit to C.I. Pipes (Supply will be paid seperately) in the main of nominal dia. of following items (Provisional)	Nr.	1						
DM 1 - 145	3" dia.	Nr.	78						
DM 1 - 146	4" dia.	Nr.	250						
DM 1 - 147	5" dia.	Nr.	32						
DM 1 - 148	6" dia.	Nr.	46						
DM 1 - 149	7" dia.	Nr.	6						
DM 1 - 150	8" dia.	Nr.	8						
DM 1 - 151	9" dia.	Nr.	10						
DM 1 - 152	10" dia.	Nr.	168						
DM 1 - 153	12" dia.	Nr.	66						
DM 1 - 154	15" dia.	Nr.	22						
DM 1 - 155	18" dia.	Nr.	2						
DM 1 - 156	20" dia.	Nr.	2						
Total of Page C - 13 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 157	Install new 3" flange adapters suit to C.I. Pipes (Supply will be paid seperately) in the fire hydrant (Provisional)	Nr.	90						
DM 1 - 158	Remove unforeseen blockages to facilitate reconditioning (Eg. Long ferrule, foreign obstruction, repair piece, pulled joint, buried fittings collar etc.) and piece up straight on main of nominal dia - 10" (Provisional)	Nr.	72						
DM 1 - 159	Remove unforeseen blockages to facilitate reconditioning (Eg. Long ferrule, foreign obstruction, repair piece, pulled joint, buried fittings collar etc.) and piece up straight on main of nominal dia - 12" (Provisional)	Nr.	98						
DM 1 - 160	Remove unforeseen blockages to facilitate reconditioning (Eg. Long ferrule, foreign obstruction, repair piece, pulled joint, buried fittings collar etc.) and piece up straight on main of nominal dia - 15" (Provisional)	Nr.	15						
DM 1 - 161	Remove unforeseen blockages to facilitate reconditioning (Eg. Long ferrule, foreign obstruction, repair piece, pulled joint, buried fittings collar etc.) and piece up straight on main of nominal dia - 18" (Provisional)	Nr.	11						
DM 1 - 162	Remove derelict equipment (Eg. Valves, tees etc.) and piece up straight on main of nominal diameter (provisional) - 10" .	Nr.	319						
DM 1 - 163	Remove derelict equipment (Eg. Valves, tees etc.) and piece up straight on main of nominal diameter (provisional) - 12" .	Nr.	196						
DM 1 - 164	Remove derelict equipment (Eg. Valves, tees etc.) and piece up straight on main of nominal diameter (provisional) - 15" .	Nr.	52						
	Total of Page C - 14 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 165	Remove derelict equipment (Eg. Valves, tees etc.) and piece up straight on main of nominal diameter (provisional) - 18" .	Nr.	20						
DM 1 - 166	Sample cuts (as per the Specifications) 10" dia. Main	Nr.	42						
DM 1 - 167	Sample cuts (as per the Specifications) 12" dia. Main	Nr.	24						
DM 1 - 168	Sample cuts (as per the Specifications) 15" dia. Main	Nr.	14						
DM 1 - 169	Sample cuts (as per the Specifications) 18" dia. Main	Nr.	5						
DM 1 - 170	Furnish, install and remove temporary by pass main for nominal diameter. 10" .	m	13643						
DM 1 - 171	Furnish, install and remove temporary by pass main for nominal diameter. 12" .	m	8140						
DM 1 - 172	Furnish, install and remove temporary by pass main for nominal diameter. 15" .	m	4531						
DM 1 - 173	Furnish, install and remove temporary by pass main for nominal diameter. 18" .	m	1551						
DM 1 - 174	Furnish, install, maintain and remove decking over street opening (Provisional)	Nr.	590						
DM 1 - 175	Removal and replacement of 3" dia. Fire Hydrants including extension piece re-construction of Hydrant chamber etc.	Nr.	85						
Total of Page C - 15 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-1 : SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 1 - 176	Install new Air valve (supply will be paid seperately) in the main of nominal dia. 10".	Nr.	3						
DM 1 - 177	Install new Air valve (supply will be paid seperately) in the main of nominal dia. 12".	Nr.	10						
DM 1 - 178	Install new Double Orifice Air valve (supply will be paid seperately) in the main of nominal dia. 15".	Nr.	2						
DM 1 - 179	Cleaning and disinfection of 10"mm dia main	m	13643						
DM 1 - 180	Cleaning and disinfection of 12"mm dia main	m	8140						
DM 1 - 181	Cleaning and disinfection of 15"mm dia main	m	4531						
DM 1 - 182	Cleaning and disinfection of 18"mm dia main	m	1551						
DM 1 - 183	Replacement of leaking valves in CMC area Diameters varing from 250 mm to 750 mm as per Drg.No.RML/DM/VR/G-01.	Nr.	35						
Total of Page C - 16 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : RM/DM-1 SUM

SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1	Page C - 1 of Bill DM 1			
	Page C - 2 of Bill DM 1			
	Page C - 3 of Bill DM 1			
	Page C - 4 of Bill DM 1			
	Page C - 5 of Bill DM 1			
	Page C - 6 of Bill DM 1			
	Page C - 7 of Bill DM 1			
	Page C - 8 of Bill DM 1			
	Page C - 9 of Bill DM 1			
	Page C - 10 of Bill DM 1			
	Page C - 11 of Bill DM 1			
	Page C - 12 of Bill DM 1			
	Total Carried Forward			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : RM/DM-1 SUM

SCRAPING & LINING OF PIPE NETWORK IN CMC AREA

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 1	Total Brought Forward			
	Page C - 13 of Bill DM 1			
	Page C - 14 of Bill DM 1			
	Page C - 15 of Bill DM 1			
	Page C - 16 of Bill DM 1			
RM/DM-1	Total of RM/DM-1 Summary to RM/DM-C1 Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-2 : SUPPLY MATERIALS FOR SCRAPING & RELINING OF PIPES IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<p>All pipes shall be Class - K9 Flange pipes and all fittings except Tees shall be Class - K12 All Tees shall be Class - K14 All Flanges shall be of PN 16</p> <p>Supply and Delivery at site all DI pipes and fittings including rubber rings, lubricant, gaskets, bolts & nuts, Denso primer, paste, protection tape and all other associated material required for complete installation</p>								
DM 2 - 1	4" dia. Sluice valve	Nr.	125						
DM 2 - 2	5" dia. Sluice valve	Nr.	16						
DM 2 - 3	6" dia. Sluice valve	Nr.	23						
DM 2 - 4	7" dia. Sluice valve	Nr.	3						
DM 2 - 5	9" dia. Sluice valve	Nr.	8						
DM 2 - 6	10" dia. Sluice valve	Nr.	36						
DM 2 - 7	12" dia. Sluice valve	Nr.	17						
DM 2 - 8	15" dia. Sluice valve	Nr.	18						
DM 2 - 9	18" dia. Sluice valve	Nr.	1						
DM 2 - 9a	27" dia.(675 mm) Butterfly Valve	Nr.	2						
	Total of Page C - 19 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-2 : SUPPLY MATERIALS FOR SCRAPING & RELINING OF PIPES IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 2 - 9b	30" dia. (750 mm) Butterfly Valve	Nr.	2						
	VJ Couplings or similar to suit CI pipes								
DM 2 - 10	3" dia. Couplings	Nr.	41						
DM 2 - 11	4" dia. Couplings	Nr.	138						
DM 2 - 12	5" dia. Couplings	Nr.	17						
DM 2 - 13	6" dia. Couplings	Nr.	29						
DM 2 - 14	7" dia. Couplings	Nr.	3						
DM 2 - 15	8" dia. Couplings	Nr.	7						
DM 2 - 16	9" dia. Couplings	Nr.	10						
DM 2 - 17	10" dia. Couplings	Nr.	770						
DM 2 - 18	12" dia. Couplings	Nr.	257						
DM 2 - 19	15" dia. Couplings	Nr.	168						
DM 2 - 20	18" dia. Couplings	Nr.	60						
DM 2 - 21	20" dia. Couplings	Nr.	3						
DM 2 - 22	21" dia. Couplings	Nr.	1						
	Total of Page C - 20 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-2 : SUPPLY MATERIALS FOR SCRAPING & RELINING OF PIPES IN CMC AREA

REHABILITATION OF EXISTING MAINS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	VJFA or similar to suit CI pipes								
DM 2 - 23	3" dia.	Nr.	168						
DM 2 - 24	4" dia.	Nr.	250						
DM 2 - 25	5" dia.	Nr.	32						
DM 2 - 26	6" dia.	Nr.	46						
DM 2 - 27	7" dia.	Nr.	6						
DM 2 - 28	8" dia.	Nr.	8						
DM 2 - 29	9" dia.	Nr.	16						
DM 2 - 30	10" dia.	Nr.	168						
DM 2 - 31	12" dia.	Nr.	66						
DM 2 - 32	15" dia.	Nr.	22						
DM 2 - 33	18" dia.	Nr.	2						
DM 2 - 34	20" dia.	Nr.	2						
	Total of Page C - 21 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : RM/DM-2 SUM

SUPPLY MATERIAL FOR SCRAPING AND RELINING OF PIPES IN CMC AREA

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 2	Page C - 19 of Bill DM 2			
	Page C - 20 of Bill DM 2			
	Page C - 21 of Bill DM 2			
RM/DM-2	Total of RM/DM-2 Summary to RM/DM-C1 Grand Summary			

Reinforcement Mains, Replacement of Existing Valves

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<p>All pipes shall be Class - K9 Flange pipes and all fittings except Tees shall be Class - K12 All Tees shall be Class - K14 All Flanges shall be of PN 16</p> <p>Supply and Delivery at site all DI pipes and fittings including rubber rings, lubricant, gaskets, bolts & nuts, Denso primer, paste, protection tape and all other associated material required for complete installation.</p> <p><u>For Distribution Main (DI)</u></p> <p>Socket & Spigot Pipes</p>								
DM 3 - 1	300 mm dia	m	3616						
DM 3 - 2	350 mm dia	m	800						
DM 3 - 3	400 mm dia	m	1446						
DM 3 - 4	450 mm dia	m	2163						
DM 3 - 5	500 mm dia	m	1238						
	Double Socket Bends								
DM 3 - 6	300 mm dia 11 1/4°	Nr	11						
DM 3 - 7	300 mm dia 22 1/2°	Nr	16						
DM 3 - 8	300 mm dia 45°	Nr	6						
	Total of Page C - 23 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 9	350 mm dia 45°	Nr	4						
DM 3 - 10	350 mm dia 90°	Nr	1						
DM 3 - 11	400 mm dia 45°	Nr	1						
DM 3 - 12	450 mm dia 11 1/4°	Nr	7						
DM 3 - 13	450 mm dia 22 1/2°	Nr	4						
DM 3 - 14	450 mm dia 45°	Nr	9						
DM 3 - 15	450 mm dia 90°	Nr	5						
DM 3 - 16	500 mm dia 11 1/4°	Nr	2						
DM 3 - 17	500 mm dia 22 1/2°	Nr	13						
	For Junctions in Distribution Mains (DI)								
	Socketted Tee								
DM 3 - 18	100 x 100 mm dia.	Nr	6						
DM 3 - 19	150 x 150 mm dia	Nr	6						
DM 3 - 20	200 x 200 mm dia	Nr	1						
DM 3 - 21	250 x 250 mm dia.	Nr	2						
	Total of Page C - 24 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 22	300 x 100 mm dia	Nr	2						
DM 3 - 23	300 x 150 mm dia.	Nr	4						
DM 3 - 24	300 x 300 mm dia	Nr	1						
DM 3 - 25	350 x 350 mm dia	Nr	8						
DM 3 - 26	400 x 100 mm dia	Nr	1						
DM 3 - 27	400 x 300 mm dia.	Nr	1						
DM 3 - 28	450 x 100 mm dia.	Nr	1						
DM 3 - 29	450 x 300 mm dia	Nr	3						
DM 3 - 30	450 x 450 mm dia.	Nr	2						
DM 3 - 31	450 x 200 mm dia.	Nr	1						
DM 3 - 32	500 x 300 mm dia	Nr	1						
DM 3 - 33	500 x 500 mm dia	Nr	1						
DM 3 - 34	700 x 700 mm dia	Nr	3						
DM 3 - 35	750 x 400 mm dia.	Nr	1						
Total of Page C - 25 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Double Socket Bends								
DM 3 - 36	100 mm dia 90 deg	Nr	1						
DM 3 - 37	300 mm dia 45 deg	Nr	2						
DM 3 - 38	90 deg	Nr	3						
DM 3 - 39	350 mm dia 90 deg	Nr	1						
DM 3 - 40	450 mm dia 45 deg	Nr	4						
DM 3 - 41	500 mm dia 90 deg	Nr	1						
	Double Socket Tapers								
DM 3 - 42	150 - 100 mm dia	Nr	1						
DM 3 - 43	300 - 200 mm dia	Nr	2						
DM 3 - 44	300 - 225 mm dia	Nr	1						
	Total of Page C - 26 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 45	300 - 250 mm dia	Nr	2						
DM 3 - 46	350 - 250 mm dia	Nr	1						
DM 3 - 47	400 - 300 mm dia	Nr	2						
DM 3 - 48	450 - 300 mm dia	Nr	3						
DM 3 - 49	450 - 350 mm dia.	Nr	1						
DM 3 - 50	500 - 450 mm dia	Nr	2						
DM 3 - 51	700 - 500 mm dia	Nr	1						
	Slip on Couplings								
DM 3 - 52	100 mm dia DI	Nr	13						
DM 3 - 53	150 mm dia DI	Nr	3						
DM 3 - 54	200 mm dia DI	Nr	4						
DM 3 - 55	225 mm dia DI	Nr	1						
DM 3 - 56	250 mm dia DI	Nr	6						
DM 3 - 57	300 mm dia DI	Nr	6						
DM 3 - 58	400 mm dia DI	Nr	2						
	Total of Page C - 27 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 59	700 mm dia DI	Nr	2						
DM 3 - 60	750 mm dia DI	Nr	2						
	Flange Spigot (DI)								
DM 3 - 61	100 mm dia	Nr	1						
DM 3 - 62	150 mm dia	Nr	1						
DM 3 - 63	200 mm dia	Nr	3						
DM 3 - 64	250 mm dia	Nr	18						
DM 3 - 65	300 mm dia	Nr	1						
DM 3 - 66	400 mm dia	Nr	1						
DM 3 - 67	450 mm dia	Nr	6						
DM 3 - 68	500 mm dia	Nr	5						
DM 3 - 69	700 mm dia	Nr	1						
	Plain Ended Pipe Piece 600 mm Long (Appox.)								
DM 3 - 70	100 mm dia	Nr	14						
DM 3 - 71	150 mm dia	Nr	3						
	Total of Page C - 28 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 72	200 mm dia	Nr	3						
DM 3 - 73	250 mm dia	Nr	6						
DM 3 - 74	225 mm dia	Nr	1						
DM 3 - 75	300 mm dia	Nr	23						
DM 3 - 76	350mm dia	Nr	1						
DM 3 - 77	400 mm dia	Nr	3						
DM 3 - 78	450 mm dia	Nr	5						
DM 3 - 79	500 mm dia	Nr	8						
DM 3 - 80	700 mm dia	Nr	3						
DM 3 - 81	750 mm dia	Nr	1						
	Flange Adaptors for DI Pipes								
DM 3 - 82	300 mm dia	Nr	2						
	Blank Flanges								
DM 3 - 83	100 mm dia	Nr	2						
DM 3 - 84	300 mm dia	Nr	3						
	Total of Page C - 29 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 85	450 mm dia	Nr	1						
DM 3 - 86	500 mm dia	Nr	3						
	For Section Valves								
	Flange Spigot Pipes with Puddle Flange								
	(Length to puddle from spigot end 1150 mm)								
DM 3 - 87	400 mm dia 1800 mm long	Nr	1						
DM 3 - 88	500 mm dia 1800 mm long	Nr	4						
DM 3 - 89	450 mm dia 1800 mm long	Nr	5						
DM 3 - 90	700 mm dia 1800 mm long.	Nr	1						
	Plain Ended Spigot Piece								
DM 3 - 91	400 mm dia 1425 long (approx.)	Nr	1						
DM 3 - 92	500 mm dia 1425 mm long (approx.)	Nr	4						
DM 3 - 93	450 mm dia 1425 long (approx.)	Nr	5						
DM 3 - 94	700 mm dia 1425 long (approx.)	Nr	1						
	Slip on Couplings								
DM 3 - 95	400 mm dia	Nr	1						
	Total of Page C - 30 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 96	500 mm dia	Nr	4						
DM 3 - 97	450 mm dia	Nr	5						
DM 3 - 98	700 mm dia	Nr	1						
	<u>For Culvert Crossings in Distribution Main</u>								
	Plain Ended Pipe Pieces								
DM 3 - 99	300 mm dia 3000 mm long.	Nr	1						
DM 3 - 100	300 mm dia 3000 mm long.	Nr	1						
	Slip on Couplings								
DM 3 - 101	300 mm dia	Nr	2						
	<u>For ELA and Channel Crossings in Distribution Main</u>								
	Double Flange Pipe Piece								
DM 3 - 102	500 mm dia 6000 mm long	Nr	2						
DM 3 - 103	500 mm dia 4000 mm long (approx.)	Nr	2						
DM 3 - 104	500 mm dia 1000 mm long (approx.)	Nr	2						
DM 3 - 105	500 mm dia 2000 mm long (approx.)	Nr	2						
	Total of Page C - 31 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 106	Double Flange Bends 500 mm dia 45° deg	Nr	4						
DM 3 - 107	Double Flange Pipes 300 mm dia 3000 mm long.	Nr	1						
DM 3 - 108	300 mm dia 2000 mm long	Nr	2						
DM 3 - 109	Double Flange Bends 300 mm dia 45° deg	Nr	4						
DM 3 - 110	Flange Spigot Pipe 300 mm dia 3000 mm long	Nr	2						
DM 3 - 111	500 mm dia 3000 mm long	Nr	2						
	<u>For Bridge Crossings in Distribution Main.</u>								
DM 3 - 112	Double Flange Pipe Piece 300 mm dia 6000 mm long	Nr	3						
DM 3 - 113	300 mm dia 4000 mm long (approx.)	Nr	2						
DM 3 - 114	350 mm dia 2000 mm Long	Nr	2						
	Total of Page C - 32 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Double Flanged Bends								
	300 mm dia								
DM 3 - 115	22 1/2° deg	Nr	4						
	350 mm dia								
DM 3 - 116	22 1/2° deg	Nr	4						
	Flange P/E Pipe Piece								
DM 3 - 117	300 mm dia 2000 mm long	Nr	2						
DM 3 - 118	350 mm dia 2000 mm long	Nr	2						
	Slip-on Couplings								
DM 3 - 119	300 mm dia	Nr	2						
DM 3 - 120	350 mm dia	Nr	2						
	<u>For Railway Crossing in Distribution Main</u>								
	Steel Pipe								
DM 3 - 121	300 mm dia 4000 mm long	Nr	2						
DM 3 - 122	450 mm dia 4000 mm long	Nr	1						
DM 3 - 123	500 mm dia 4000 mm long	Nr	1						
	<i>Total of Page C - 33 Carried to Bill Summary</i>								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Slip-on Couplings								
DM 3 - 124	300 mm dia / 300 mm dia steel	Nr	4						
DM 3 - 125	450 mm dia DI/ 450 mm dia Steel	Nr	2						
DM 3 - 126	500 mm dia DI / 500 mm dia Steel	Nr	2						
	<u>For Air Valves in Distribution Main (DI)</u>								
	Socketed Tee with Flange Branch								
DM 3 - 127	350 x 100 mm dia	Nr	1						
DM 3 - 128	450 x 100 mm dia	Nr	1						
	All Flanged Tee								
DM 3 - 129	500 x 100 mm dia	Nr	1						
DM 3 - 130	300 x 100 mm dia.	Nr	1						
DM 3 - 131	500x 100 mm dia	Nr	3						
	Double Flange Pipe								
DM 3 - 132	100 mm dia approx. 200 mm long	Nr	5						
	<u>For Washouts in Distribution Main (DI)</u>								
	Socketed Level Invert Tee with Flange Branch								
DM 3 - 133	300 x 80 mm dia	Nr	3						
	Total of Page C - 34 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-3 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 3 - 134	450 x 100 mm dia	Nr	3						
DM 3 - 135	500 x 100 mm dia	Nr	2						
	For Fire Hydrants in Distribution Main (DI)								
	Socketed Tee								
DM 3 - 136	300 x 80 mm dia	Nr	14						
DM 3 - 137	350 x 80 mm dia	Nr	2						
DM 3 - 138	400 x 80 mm dia	Nr	2						
DM 3 - 139	450 x 80 mm dia.	Nr	1						
DM 3 - 140	500 x 80 mm dia.	Nr	1						
	Double Flange Bends								
	80 mm dia								
DM 3- 141	90 deg	Nr	20						
	Double Flange Pipe Piece								
DM 3 - 142	80 mm dia 600 mm long (Approx.)	Nr	20						
DM 3 - 143	80 mm dia 1500 mm long (approx.) P/E Pipe Piece.	Nr	20						
	Flanged Adaptors								
DM 3 - 144	80 mm dia DI	Nr	20						
	Total of Page C - 35 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : RM/DM-3 SUM

SUPPLY AND DELIVERY OF DI PIPES AND FITTINGS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 3	Page C - 23 of Bill DM 3			
	Page C - 24 of Bill DM 3			
	Page C - 25 of Bill DM 3			
	Page C - 26 of Bill DM 3			
	Page C - 27 of Bill DM 3			
	Page C - 28 of Bill DM 3			
	Page C - 29 of Bill DM 3			
	Page C - 30 of Bill DM 3			
	Page C - 31 of Bill DM 3			
	Page C - 32 of Bill DM 3			
	Page C - 33 of Bill DM 3			
	Page C - 34 of Bill DM 3			
	Page C - 35 of Bill DM 3			
RM/DM-3	Total of RM/DM-3 Summary to RM/DM-C2 Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-4 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<p>All Flanges shall be PN-16 All Valves shall be with non-rising spindles</p> <p>Supply and Delivery at site all valves, fire hydrants, materials for waste meter chambers etc. as specified and as shown on Drawings including jointing material, Denso primer, paste & protection tape and all other associated materials required for complete installation</p> <p><u>Section Valves in Distribution Main</u></p> <p>Gate Valves (Resilient Seated)</p>								
DM 4 - 1	100 mm dia	Nr	9						
DM 4 - 2	150 mm dia	Nr	1						
DM 4 - 3	200 mm dia	Nr	2						
DM 4 - 4	250 mm dia	Nr	2						
DM 4 - 5	300 mm dia	Nr	15						
	Butterfly Valves (Resilient Seated)								
DM 4 - 6	400 mm dia	Nr	2						
DM 4 - 7	500 mm dia	Nr	4						
DM 4 - 8	450 mm dia	Nr	5						
	Total of Page C - 37 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-4 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 4 - 9	700 mm dia Flanged adaptors for Section Valves	Nr	1						
DM 4 - 10	100 mm dia DI	Nr	8						
DM 4 - 11	150 mm dia DI	Nr	1						
DM 4 - 12	200 mm dia DI	Nr	2						
DM 4 - 13	250 mm dia DI	Nr	3						
DM 4 - 14	300 mm dia DI	Nr	16						
DM 4 - 15	400 mm dia DI	Nr	1						
DM 4 - 16	450 mm Dia DI	Nr	5						
DM 4 - 17	500 mm dia DI	Nr	4						
DM 4 - 18	700 mm dia DI	Nr	1						
DM 4 - 19	600 mm dia heavy duty hinged type manhole covers	Nr	11						
DM 4 - 20	150 x 150 mm lockable heavy duty surface box	Nr	23						
	<u>For Air Valve in Distribution Main</u> Double Orifice Air Valve								
DM 4 - 21	100 mm body size (100 mm flange)	Nr	5						
	Total of Page C - 38 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-4 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Gate Valves (Resilient Seated)								
DM 4 - 22	100 mm dia	Nr	5						
DM 4 - 23	600 mm dia ventilated heavy duty hinged type manhole covers	Nr	5						
	<u>For Air Valves in Culvert Crossings</u>								
	Double Orifice Air Valve								
DM 4 - 24	100 mm body size (100 mm flange)	Nr	2						
	<u>For Washouts in Distribution Main</u>								
	Gate Valves (Resilient Seated)								
DM 4 - 25	80 mm dia	Nr	3						
DM 4 - 26	100 mm dia	Nr	5						
	Flanged Adapters								
DM 4 - 27	90 mm dia PVC	Nr	3						
DM 4 - 28	110 mm dia PVC	Nr	5						
DM 4 - 29	600 mm dia heavy duty hinged type manhole covers.	Nr	5						
DM 4 - 30	150 x 150 m lockable heavy duty surface box	Nr	3						
	Total of Page C - 39 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-4 : SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<u>For Fire Hydrants</u>								
DM 4 - 31	Gate Valves (Resilient Seated) with Hand Wheel 80 mm dia	Nr	20						
	<u>Fire Hydrant (BS 750 Type 2)</u>								
	With Screwed Outlet								
DM 4 - 32	80 mm dia	Nr	20						
DM 4 - 33	600 mm dia fire hydrant manhole cover (Class D 400)	Nr	20						
	Total of Page C - 40 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : RM/DM-4 SUM

SUPPLY AND DELIVERY OF VALVES, FIRE HYDRANTS AND SPECIALS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 4	Page C - 37 of Bill DM 4 Page C - 38 of Bill DM 4 Page C - 39 of Bill DM 4 Page C - 40 of Bill DM 4			
RM/DM-4	Total of RM/DM-4 Summary to RM/DM-C2 Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<p><u>Laying & Jointing in Open Trench DI Pipes Specials & Fittings as Specified.</u></p> <p>Rate to include for making of trial holes, excavation, cutting pipes, shoring & dewatering, bedding Type A unless otherwise specified, backfilling or filling with imported material (where necessary), compaction & disposal of excess & unsuitable material as directed by the Engineer and reinstatement of surface etc. as required.</p> <p><u>Reinforcement Main (DI)</u></p> <p>Depth to invert of pipe not exceeding 1.5m</p>								
DM 5 - 1	300 mm dia pipe	m	3616						
DM 5 - 2	350 mm dia pipe	m	810						
	Extra over above items for depth to invert exceeding 1.5m (Provisional Quantity)								
DM 5 - 3	300 mm dia pipe	m	1100						
DM 5 - 4	350 mm dia pipe	m	200						
	Depth to invert of pipe not exceeding 2m								
DM 5 - 5	400 mm dia pipe	m	1446						
DM 5 - 6	450 mm dia pipe	m	2163						
DM 5 - 7	500 mm dia pipe	m	1238						
	Total of Page C - 42 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Extra over above items for depth to invert exceeding 2m (Provisional Quantity)								
DM 5 - 8	400 mm dia pipe	m	450						
DM 5 - 9	450 mm dia pipe	m	700						
DM 5 - 10	500 mm dia pipe	m	400						
	Extra over Items for double socket bends in Distribution Main								
	Rate to include for additional excavation, shoring, dewatering, construction of concrete trust block and all necessary items of work required for complete installation of bends.								
	Double Socket Bends								
	300 mm dia								
DM 5 - 11	11 1/4°	Nr	11						
DM 5 - 12	22 1/2°	Nr	16						
DM 5 - 13	45°	Nr	6						
	350 mm dia								
DM 5 - 14	45°	Nr	4						
DM 5 - 15	90°	Nr	1						
	Total of Page C - 43 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 16	400 mm dia 45°	Nr	1						
DM 5 - 17	450 mm dia 11 1/4°	Nr	7						
DM 5 - 18	22 1/2°	Nr	4						
DM 5 - 19	45°	Nr	9						
DM 5 - 20	90°	Nr	5						
DM 5 - 21	500 mm dia 11 1/4°	Nr	2						
DM 5 - 22	22 1/2°	Nr	13						
	Extra over Items for Installation of Double Socket Bends in Transmission Main Rate to include for additional excavation, shoring, dewatering, construction of concrete thrust blocks and all necessary items of work required for complete installation of junctions and protection of joints where necessary.								
DM 5 - 23	Socketted Tee 100 x 100 mm dia	Nr	6						
	Total of Page C - 44 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 24	150 x 150 mm dia	Nr	1						
DM 5 - 25	200 x 200 mm dia	Nr	2						
DM 5 - 26	250 x 250 mm dia	Nr	2						
DM 5 - 27	300 x 100 mm dia	Nr	4						
DM 5 - 28	300 x 150 mm dia	Nr	1						
DM 5 - 29	300 x 300 mm dia	Nr	8						
DM 5 - 30	400 x 100 mm dia	Nr	1						
DM 5 - 31	400 x 300 mm dia	Nr	1						
DM 5 - 32	450 x 100 mm dia	Nr	3						
DM 5 - 33	450 x 200 mm dia	Nr	1						
DM 5 - 34	450 x 300 mm dia	Nr	1						
DM 5 - 35	450 x 450 mm dia	Nr	1						
DM 5 - 36	350 x 350 mm dia	Nr	1						
DM 5 - 37	500 x 300 mm dia	Nr	1						
DM 5 - 38	500 x 500 mm dia	Nr	3						
Total of Page C - 45 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 39	700 x 700 mm dia	Nr	1						
DM 5 - 40	750 x 400 mm dia	Nr	1						
	Double Socketed Bends								
	100 mm dia								
DM 5 - 41	90°	Nr	1						
	300 mm dia								
DM 5 - 42	45°	Nr	2						
DM 5 - 43	90°	Nr	3						
	350 mm dia								
DM 5 - 44	90°	Nr	1						
	450 mm dia								
DM 5 - 45	45°	Nr	4						
	500 mm dia								
DM 5 - 46	90°	Nr	1						
	Double Socket Tapers								
DM 5 - 47	150 -100 mm dia	Nr	1						
	Total of Page C - 46 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 48	300 - 200 mm dia	Nr	2						
DM 5 - 49	300 - 250 mm dia	Nr	2						
DM 5 - 50	300 - 225 mm dia	Nr	1						
DM 5 - 51	350 - 250 mm dia.	Nr	1						
DM 5 - 52	400 - 300 mm dia	Nr	2						
DM 5 - 53	450 - 300 mm dia.	Nr	3						
DM 5 - 54	450 - 350 mm dia	Nr	1						
DM 5 - 55	500 - 450 mm dia	Nr	2						
DM 5 - 56	700- 500 mm dia	Nr	1						
	Flange Spigot								
DM 5 - 57	100 mm dia	Nr	9						
DM 5 - 58	150 mm dia	Nr	1						
DM 5 - 59	200 mm dia	Nr	1						
DM 5 - 60	250 mm dia	Nr	3						
DM 5 - 61	300 mm dia	Nr	18						
	Total of Page C - 47 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 62	400 mm dia	Nr	1						
DM 5 - 63	450 mm dia	Nr	4						
DM 5 - 64	500 mm dia	Nr	5						
DM 5 - 65	700 mm dia	Nr	1						
	Slip on Couplings								
DM 5 - 66	100 mm dia DI	Nr	13						
DM 5 - 67	150 mm dia DI	Nr	3						
DM 5 - 68	200 mm dia DI	Nr	4						
DM 5 - 69	250 mm dia DI	Nr	6						
DM 5 - 70	225 mm dia DI	Nr	1						
DM 5 - 71	300 m dia DI	Nr	6						
DM 5 - 72	400 mm dia DI	Nr	2						
DM 5 - 73	700 mm dia DI	Nr	2						
DM 5 - 74	750 mm dia DI	Nr	2						
	P/E Pipe Piece 500 mm Long (Approx)								
DM 5 - 75	100 mm dia	Nr	14						
	Total of Page C - 48 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 76	150 mm dia	Nr	3						
DM 5 - 77	200 mm dia	Nr	3						
DM 5 - 78	225 mm dia	Nr	1						
DM 5 - 79	250 mm dia	Nr	6						
DM 5 - 80	300 mm dia	Nr	23						
DM 5 - 81	350 mm dia	Nr	1						
DM 5 - 82	400 mm dia	Nr	3						
DM 5 - 83	450 mm dia	Nr	5						
DM 5 - 84	500 mm dia	Nr	8						
DM 5 - 85	700 mm dia	Nr	3						
DM 5 - 86	750 mm dia	Nr	1						
	Flange Adaptors for DI pipes								
DM 5 - 87	300 mm dia	Nr	2						
	Blank Flanges								
DM 5 - 88	100 mm dia	Nr	2						
Total of Page C - 49 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 89	300 mm dia	Nr	3						
DM 5 - 90	450 mm dia	Nr	1						
DM 5 - 91	500 mm dia	Nr	3						
	For Section Valves								
	Rate to include for providing supports, thrust blocks, anchor blocks etc and protection of joints.								
	Flange Spigot Pipes with Puddle Flange								
	(Length to puddle from spigot end 1150 mm)								
DM 5 - 92	400 mm dia 1800 mm long	Nr	1						
DM 5 - 93	500 mm dia 1800 mm long	Nr	3						
DM 5 - 94	450 mm dia 1800 mm long	Nr	4						
DM 5 - 95	700 mm dia 1800 mm long	Nr	1						
	Plain Ended Spigot Pipes								
DM 5 - 96	400 mm dia 1425 mm long (approx.)	Nr	1						
DM 5 - 97	500 mm dia 1425 mm long (approx)	Nr	3						
DM 5 - 98	450 mm dia 1425 mm long (approx)	Nr	1						
	Total of Page C - 50 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 99	700 mm dia 1425 mm long (approx) Slip-on Couplings	Nr	1						
DM 5 - 100	400 mm dia	Nr	1						
DM 5 - 101	500 mm dia	Nr	3						
DM 5 - 102	450 mm dia	Nr	1						
DM 5 - 103	700 mm dia	Nr	1						
	Extra over items for culver crossings in Distribution Main Complete as depicted in drawing RML/DM/RF-22 Rate to include for additional excavation, additional shoring, coffer damming, diversion of waterway, forming of embankment, rubble pitching, trench cutoff walls, breaking into existing structures, making good of any damage to the existing structures, road or embankment and any other items necessary to complete the culvert crossing.								
DM 5 - 104	300 mm dia Type "D"	Nr	2						
	Total of Page C - 51 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 5 - 105	<p>Extra over items for channel crossing in distribution main Rate to include for additional excavation, additional shoring, coffer damming, diversion of waterway, forming of embankment, rubble pitching, trench cutoff walls, breaking into existing structures, making good of any damage to the existing structures, road or embankment and any other items necessary to complete the culvert crossing.</p> <p>500 mm dia - channel crossings</p>	Nr	1						
DM 5 - 106	<p>Extra over items for Bridge crossings in Distribution Mains Complete as depicted in Drg. No. RML/DM/RF/23 Rate to include for additional excavation, additional shoring, coffer damming, diversion of waterway, forming of embankment, rubble pitching, trench cutoff walls, breaking into existing structures, making good of any damage to the existing structures, road or embankment and any other items necessary to complete the bridge crossing including removal of existing 110 m dia PVC pipe.</p> <p>300 mm dia Bridge crossings</p>	Nr	1						
	Total of Page C - 52 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<u>For Railway Crossings in Distribution Main</u>								
	Rate to include for shoring, dewatering, excavation, backfilling, compaction, supply and laying of hume pipes, steel pipes and jointing materials with their protections, welding, testing of welds, installation of steel pipes inside the hume pipes, sand bedding inside the hume pipe, engineering brick work, connecting to DI or PVC line, all necessary supports and accessories complete as depicted in drawings and as directed by Engineer.								
DM 5 - 107	300 mm dia steel pipes at Dematagoda Road		Item						
DM 5 - 108	300 mm dia steel pipes at Mart Road.		Item						
DM 5 - 109	450 mm dia steel pipes Prince of Wales Avenue.		Item						
DM 5 - 110	500 mm dia steel pipes Bloemandhal Road		Item						
	<u>Extra Over Items for air Valve Tees and Associated Fittings in Distribution Main</u>								
	Rate to include for providing supports, thrust blocks, anchor blocks, etc and protection of joints.								
	Socketed Tee with Flange Branch								
DM 5 - 111	300 x 100 mm dia	Nr	1						
DM 5 - 112	450 x 100 mm dia	Nr	1						
DM 5 - 113	500 x 100 mm dia	Nr	3						
	Total of Page C - 53 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	Extra Over Items for Washout Tees and Associated Fittings in Distribution Main Rate to include for providing supports, thrust blocks, anchor blocks etc. and protection of joints. Socketted Level Invert Tee with Flange Branch								
DM 5 - 114	300 x 80 mm dia.	Nr	3						
DM 5 - 115	450 x 100 mm dia	Nr	3						
DM 5 - 116	500 x 100 mm dia.	Nr	2						
	Extra Over for Fire Hydrant Tees in Distribution Main Rate to include for additional excavation, shoring, dewatering, construction of concrete thrust blocks and all necessary items of work required for complete installation of fire hydrant tees and protection of joints where necessary. DI Socketted Tee								
DM 5 - 117	300 x 80 mm dia.	Nr	14						
DM 5 - 118	350 x 80 mm dia	Nr	2						
DM 5 - 119	400 x 80 mm dia	Nr	2						
DM 5 - 120	450 x 80 mm dia	Nr	1						
DM 5 - 121	500 x 80 mm dia	Nr	1						
	Total of Page C - 54 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-5 : LAYING AND INSTALLATION OF DI PIPES AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Ycn	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Ycn	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<u>Field hydrostatic Pressure and Leakage Test, Disinfection and Cleaning of Pipeline as Specified.</u>								
DM 5 - 122	300 mm dia	m	3616						
DM 5 - 123	350 mm dia	m	810						
DM 5 - 124	400 mm dia	m	1446						
DM 5 - 125	450 mm dia	m	2163						
DM 5 - 126	500 mm dia	m	1238						
	<u>Miscellaneous</u>								
DM 5 - 127	Extra concrete of Grade 20 for submerged thrust blocks or anchor blocks above and over that of dry type where required and as specified by the Engineer (Provisional Quantity) Rate to include for additional excavation, additional shoring, coffer damming, dewatering, making good of any damage to the existing structures, road or embankment and any other items necessary to complete the concrete thrust block.	m ³	30						
	Total of Page C - 55 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : RM/DM-5 SUM

LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 5	Page C - 42 of Bill DM 5			
	Page C - 43 of Bill DM 5			
	Page C - 44 of Bill DM 5			
	Page C - 45 of Bill DM 5			
	Page C - 46 of Bill DM 5			
	Page C - 47 of Bill DM 5			
	Page C - 48 of Bill DM 5			
	Page C - 49 of Bill DM 5			
	Page C - 50 of Bill DM 5			
	Page C - 51 of Bill DM 5			
	Page C - 52 of Bill DM 5			
	Page C - 53 of Bill DM 5			
	Page C - 54 of Bill DM 5			
	Page C - 55 of Bill DM 5			
RM/DM-5	Total of RM/DM-5 Summary to RM/DM-C2 Grand Summary			

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-6 : INSTALLATION OF VALVES, FIRE HYDRANTS AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
	<p><u>Installation of Butterfly valves, Air valves & Washouts - Gravity Main.</u></p> <p>Rate to include for making of trial hole, excavation, shoring & dewatering (where necessary), installation of all isolating valves, isolating cocks, joint protections, construction of chambers, overflow chambers, head walls, drainage, support blocks and installation of PVC leadaway pipes from the valve, supply & installation of PVC protection pipes (type 1000) and installation of surface boxes, manhole covers, backfilling or filling with selected material and disposal of surplus and unsuitable material as directed by the Engineer and reinstatement of surface as required.</p> <p><u>Distribution Mains</u></p> <p>Gate Valves complete with surface box</p>								
DM 6 - 1	100 mm dia	Nr	9						
DM 6 - 2	150 mm dia	Nr	1						
DM 6 - 3	200 mm dia	Nr	2						
DM 6 - 4	250 mm dia	Nr	2						
DM 6 - 5	300 mm dia	Nr	15						
	<p><u>Butterfly Valve complete with Chamber</u></p>								
DM 6 - 6	400 mm dia with Type "A" Chamber	Nr	2						
	Total of Page C - 57 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-6 : INSTALLATION OF VALVES, FIRE HYDRANTS AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 6 - 7	450 mm dia with Type "A" Chamber	Nr	5						
DM 6 - 8	500 mm dia with Type "A" Chamber	Nr	4						
DM 6 - 9	700 mm dia with Type "A" Chamber	Nr	1						
	Extra over Items for Chambers Only (Provisional Quantity) For depths exceeding those minimum depths indicated on drawings. Rate to include for additional excavation, shoring and dewatering (where necessary), construction of additional height of the chambers, additional backfilling or selected material and disposal of surplus and unsuitable material as directed by the Engineer								
DM 6 - 10	Type "A" chamber exceeding 1.0 m from minimum depth (Provisional Quantity) For Air Valves in Distribution Main Installation of air valves complete with Gate valves, chambers and covers as depicted in Drawings.	Nr	12						
DM 6 - 11	100 mm dia double orifice air valve with Type 'B' chamber For Air Valves in Culvert Crossings Installation of Air Valves complete with gate valves and supply & installation of steel enclosure as depicted in drawings.	Nr	5						
	Total of Page C - 58 Carried to Bill Summary								

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

BILL OF QUANTITIES

BILL NO : RM/DM-6 : INSTALLATION OF VALVES, FIRE HYDRANTS AND SPECIALS

REINFORCEMENT MAINS, REPLACEMENT OF EXISTING VALVES

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.	Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. RS./Cts.
DM 6 - 12	100 mm dia double orifice air valve <u>For Washouts in Distribution Main (DI)</u> Installation of washout arrangements as depicted in Drawings. Complete with Gate valve and chamber etc.	Nr	1						
DM 6 - 13	Washout Type 'A', 80 mm dia Gate Valve	Nr	3						
DM 6 - 14	Washout Type 'A', 100 mm dia Gate Valve <u>For Fire Hydrants in Distribution Main</u> Installation of Fire Hydrant as depicted in Drawing Complete with Gate valve and chamber etc.	Nr	5						
DM 6 - 15	80 mm dia fire hydrant	Nr	20						
DM 6 - 16	Supply & erection of marker posts as depicted in Drawings	Nr	55						
Total of Page C - 59 Carried to Bill Summary									

THE PROJECT FOR THE REDUCTION OF NON-REVENUE WATER IN THE GREATER COLOMBO AREA

SUMMARY OF BILL OF QUANTITIES

BILL NO : RM/DM-6 SUM

INSTALLATION OF VALVES, FIRE HYDRANTS AND SPECIALS

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
DM 6	Page C - 57 of Bill DM 6 Page C - 58 of Bill DM 6 Page C - 59 of Bill DM 6			
RM/DM-6	Total of RM/DM-6 Summary to RM/DM-C2 Grand Summary			