

## **SCHEDULE B**

# **WATER SUPPLY ENHANCEMENT IN KOTIKAWATTE & MULLERIYAWA AREA**



## **Gothatuwa - Kolonnawa Pump House**

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

**BILLS OF QUANTITIES**

**BILL NO. KMU/PS-1 : CONSTRUCTION OF PUMP HOUSE**

**GOTHATUWA - KOLONNAWA PUMP HOUSE**

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
	<b>Earth Works</b>								
	Rate to include for excavation, shoring & dewatering (where necessary), backfilling, ramming, compacting and removal of all surplus or unsuitable								
	<b>For excavation in any material other than rock (from formation level)</b>								
PS 1 - 1	Upto an average depth not exceeding 2 - 0 m.	m <sup>3</sup>	469						
PS 1 - 2	Extra over excavation for rock excavation. (Provisional)	m <sup>3</sup>	25						
PS 1 - 3	Levelling and compacting bottom of excavation.	m <sup>2</sup>	386						
PS 1 - 4	Filling, ramming and compacting with selected materials from borrow site to external faces around rcc walls to form embankment.	m <sup>3</sup>	1216						
PS 1 - 5	Allow for trimming and compacting to battered or slope the filled embankment as depicted in Drg.No. KMU/PS/C/03.	Item	1						
PS 1 - 6	Excavate over site in reducing level not exceeding 2.0 m deep. (Road surface)	m <sup>3</sup>	20						
PS 1 - 7	Filling, ramming and compacting with selected excavate materials in making up level of the road. Complying to road specification.	m <sup>3</sup>	74						
	Total of Page B - 1 carried to Bill Summary								

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

## BILLS OF QUANTITIES

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GOTHATUWA - KOLONNAWA PUMP HOUSE

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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
	<b>Concrete Work</b>								
	<b>Rate to include for all formwork, supply &amp; placing of concrete as specified.</b>								
	<b>Concrete in Grade 15</b>								
PS 1 - 8	In 50 mm thick blinding.	m <sup>2</sup>	386						
	<b>Rate to include for all formwork, supporting system, supply and placing concrete (with temperature control) and curing as specified. (Reinforcement measured separately unless specified) Formwork shall be Fair Finish to all concrete walls, corbel beams and portal frames to receive painting. The Contractor shall rectify at his own cost if he fails to achieve the fair face finish.</b>								
	<b>Concrete in Grade 20</b>								
PS 1 - 9	In concrete benching laid to fall and cross falls on the slab of Pump House. Rate to include for reinforcement mesh, construction of drain sump, electrical trenchers access ramp and chequered plates covers, for electrical trenchers and sump etc., as depicted in Drg.No.	Item	1						
	<b>Concrete in Grade 25</b>								
PS 1 - 10	In columns above rcc walls, beams, corbel beams, portal beams, lintols, staircase and the like.	m <sup>3</sup>	55						
PS 1 - 11	In suspended slab of pump house and kerb wall above Reservoir.	m <sup>3</sup>	24						
PS 1 - 12	In thrust blocks, pump bases, sump walls, supports and the like.	m <sup>3</sup>	27						
	Total of Page B - 2 carried to Bill Summary								

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PS 1 - 13	In concrete benching laid to fall and cross falls on Reservoir base slab. Rate to include for reinforcement mesh, forming, side drain construction of sump etc. complete to as depicted in Drg. No.  <b><u>Concrete Grade as depicted in drawings.</u></b>	Item	1						
PS 1 - 14	In base slab Reservoir and Pump House.	m <sup>3</sup>	210						
PS 1 - 15	In walls Reservoir and Pump House.	m <sup>3</sup>	240						
PS 1 - 16	In Reservoir top slab and beams.  <b><u>Reinforcement</u></b>  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 Drawing. <b><u>For Reservoir and Pump House</u></b>	m <sup>3</sup>	16						
PS 1 - 17	Tor steel.  <b><u>Masonry</u></b> <b><u>Blockwork in Pump House</u></b> <b>Cement Hollow block 390 X 190 mm minimum strength 3.5 N/mm<sup>2</sup> in cement mortar 1:5 in.</b>	MT	92						
PS 1 - 18	200 mm thick walls.	m <sup>2</sup>	234						
	Total of Page B - 3 carried to Bill Summary								

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## BILLS OF QUANTITIES

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GOTHATUWA - KOLONNAWA PUMP HOUSE

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	<b><u>Water Proofing</u></b>								
PS 1 - 19	Gauge 1000 polythene DPM under base slab.	m <sup>2</sup>	386						
PS 1 - 20	Tanking to external surfaces of foundation and walls vertically below fill level as specified.	m <sup>2</sup>	380						
PS 1 - 21	Waterproofing membrane and separation layer with 20 - 40mm round pebbles 200 mm thick on top Reservoir slab. To details depicted in Drg.No. KMU/PS/C/08 and STD/ST - 03.	m <sup>2</sup>	65						
PS 1 - 22	Allow coating inside the sump for all concrete surfaces.	m <sup>2</sup>	200						
	<b><u>Metal Work</u></b>								
	All aluminium doors and windows frames, finishes and glazing shall be as specified. Fixed complete to types indicated with iron mongers, locks etc.,								
PS 1 - 23	Supply and fix Bronze anodised aluminium glazed door type D1 overall size 1000 X 2200 mm.	Nr.	1						
PS 1 - 24	Supply and fix Bronze anodised aluminium window type W1 - overall size 1400 X 1800 mm - 2 Nr. openable casements and fanlight to top.	Nr.	5						
PS 1 - 25	Supply and fix Bronze anodised aluminium roller shutter door with rolling mechanism and locking devices. Type RD - overall size 4000 X 3000 mm.	Nr.	1						
PS 1 - 26	Metal handrail & painting to Drg. No. STD/ST - 01 as specified over edge of slab at 11.25 MSL	Item	1						
	Total of Page B - 4 carried to Bill Summary								

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## BILLS OF QUANTITIES

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GOTHATUWA - KOLONNAWA PUMP HOUSE

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
PS 1 - 27	Metal handrail & painting to sides of staircase from 8.00 - 11.25 m level Drg. No. STD/ST - 01.	Item	1						
PS 1 - 28	M.S. Platform consist of M.S. Channels beams painted as specified and 50 mm thick M.S. Grating with handrails as depicted in Drg. No. KMU/PS/C/09 and STD/ST - 01. (14.0 m)	Item	1						
	<b>Roofwork and Roof Plumbing</b>								
PS 1 - 29	102 X 51 X 10.42 Kg/m M.S. channel purlins fixed at 1.0 m centres and painted to specifications.	m	322						
PS 1 - 30	Zinc aluminium roof covering shall be 0.47 mm thick corrugated profile complete with fastens standard ridge caps, custom wall flashing to specification.	m <sup>2</sup>	276						
PS 1 - 31	0.47 mm Zinc alum custom gutters fixed complete with gutter brackets at 600 mm centres	m	46						
PS 1 - 32	100 mm Grade 400 PVC down pipes fixed to rcc columns with M.S. clips complete with specials.	m	20						
PS 1 - 33	Supply and install Removable roof cover to Surge Chamber with G.I. Posts, purlins to detail.	Item	1						
	<b>Electrical Installation</b>								
	Rate to include for all materials (all uPVC conduits and wiring as specified, fitting of approved make & approved by the Engineer) supplied, fixed and complete to the working order as depicted in Drawings and directed by the Engineer.								
	Total of Page B - 5 carried to Bill Summary								



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

## BILLS OF QUANTITIES

BILL NO. KMU/PS-1 : CONSTRUCTION OF PUMP HOUSE

GOTHATUWA - KOLONNAWA PUMP HOUSE

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>Cable mains</u>								
PS 1 - 34	Three phase cable mains (16 sq mm PVC/PVC copper for phase and for Netural ) from "Building services switch on main switch board to 60 A TPN MCB contralling the building services distribution boards (DB's) - vide drawing KMU - PS - E .11.	Item	1						
PS 1 - 35	Single phase mains(16 sq mm PVC/PVC copper for phase, netural & P.E.) from 60 A RPN MCB to the three distribution boards DB 1, DB2 , &DB 3.	Item	1						
PS 1 - 36	Single phase distribution boards as in drawings KMU/PS/E.01 & E. 11	Sets	3						
	<u>Sub - circute wiring (include all wiring accessories, switches, sockets etc:</u>								
PS 1 - 37	Wiring for lighting points	Nr.	30						
PS 1 - 38	Wiring for socket outlets.	Nr.	6						
	<u>Lamp Fittings</u>								
PS 1 - 39	Luminaires, specification type 19.	Nr.	8						
PS 1 - 40	Luminaires, specification type 27.	Nr.	5						
PS 1 - 41	Luminaires, specification type 28.	Nr.	9						
PS 1 - 42	Luminaires, specification type 25 ( emergency lamps).	Nr.	2						
	Total of Page B - 6 carried to Bill Summary								

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

## BILLS OF QUANTITIES

BILL NO. KMU/PS-1 : CONSTRUCTION OF PUMP HOUSE

GOTHATUWA - KOLONNAWA PUMP HOUSE

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
PS 1 - 43	Luminaires, specification type 7.	Nr.	8						
PS 1 - 44	Earthing of installation to separate earth electrode.	Item	1						
	<b>Site Lighting</b>								
PS 1 - 45	Photoelectric lamp control switches ( rating 16 A ).	Nr.	3						
PS 1 - 46	Cabling to lamps as in drawingg KMU /PS/ E.01.	Item	1						
PS 1 - 47	Lamp fittings specification type 23 - Mounted on walls.	Nr.	3						
PS 1 - 48	Lamp fittings specification type 23 - Mounted on RC posts (include RC posts).	Nr.	7						
PS 1 - 49	Lighting protection as specified , including down runs and earthing.	Item	1						
	<b>Plaster works and other floor, wall and ceiling finishes</b>								
	Rate for plaster works shall include for narrow widths, jumps, arrisers and the like 20 mm thick cement, lime and sand 1:1:5 plaster to.								
PS 1 - 50	Combine columns, beams and walls finished semi rough. (Externally   (above 11.25 MSL)	m <sup>2</sup>	275						
PS 1 - 51	Combine columns, beams and walls but smooth finish with lime putty. (Internally)	m <sup>2</sup>	280						
	Total of Page B - 7 carried to Bill Summary								

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

## BILLS OF QUANTITIES

BILL NO. KMU/PS-1 : CONSTRUCTION OF PUMP HOUSE

GOTHATUWA - KOLONNAWA PUMP HOUSE

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
PS 1 - 52	Ditto softies of slab, staircase sides and soffit of beams. (Internally) <b>Floor Finishers</b>	m <sup>2</sup>	110						
PS 1 - 53	20 mm thick cement and sand 1:3 rendering to floor smooth finished smooth with neat cement. (Pump House floor, slab top, staircase and surge chamber) <b>Painting and Decorating</b>	m <sup>2</sup>	275						
PS 1 - 54	Prepare surface and apply two coats internal emulsion paint of approved shade to plastered surfaces of walls, columns, beams and soffit of slab. (Internally - above 11.25 MSL)	m <sup>2</sup>	390						
PS 1 - 55	Prepare surface and apply two coats of external emulsion paint (weather shield) of approved shade to plastered surfaces of walls, columns and beams.(Externally - above 11.25 MSL)	m <sup>2</sup>	275						
PS 1 - 56	Prepared surface and apply two coats of approved shade external emulsion paint (weather shield) to concrete surfaces of walls. (Surge chamber internally and Reservoir above fill level)	m <sup>2</sup>	181						
PS 1 - 57	Prepare surface and apply two coats of internal emulsion paint to concrete surfaces of walls, columns and beams. (Pump House walls, beams and columns)	m <sup>2</sup>	505						
Total of Page B - 8 carried to Bill Summary									

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## BILLS OF QUANTITIES

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	<b>Miscellaneous</b>								
	Rate to include for supplying and laying or fixing in position damp proof membrane, water bar expansion joint as specified in Technical Specification and as depicted in Drawings.								
PS 1 - 58	Supply and fix 300 mm wide centre bulb rubber water stop between wall and base slab. Refer Drg. No. KMU/PS/ST/07.	m	135						
PS 1 - 59	Construct box outs 6 No. for 600 mm dia. Pipe, 1 No. 800 mm dia. Pipe and 1 No. 1200 mm dia. in 500 mm thick rcc wall. Complete to detail Drg. No. STD/ST - 01.	Item	1						
PS 1 - 60	Allow for forming 2 No. 900 x 900 mm manhole opening with 1200 x 1200 mm aluminium checqured plate cover including locking arrangement complete.Drg. No. STD/ ST - 02.	Item	1						
PS 1 - 61	Allow for forming 1No. 600 x 600 mm opening to mount level sensor.	Item	1						
PS 1 - 62	Allow for supply and install 2 No. stainless steel ladders inside the reservoir including RC platforms and as depicted in Drg. No. STD/ ST - 02.	Item	1						
PS 1 - 63	Allow for supply and install roof drains with 8 No. strainer, 100 mm dia. GI flange down pipes and manholes as depicted in Drg. No. STD/ ST - 02.	Item	1						
PS 1 - 64	Supply and fix 04 No. roof drain strainer to detail Drg. No.STD/ST-03.	Item	1						
	Total of Page B - 9 carried to Bill Summary								

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

## BILLS OF QUANTITIES

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GOTHATUWA - KOLONNAWA PUMP HOUSE

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	<b>External Works</b>								
PS 1 - 65	Asphalt road to specification.	m <sup>2</sup>	415						
PS 1 - 66	Precast concrete grade 30 road kerbs 125 x 250 mm. Rate to include for excavation, concrete grade 20 benching.	m	85						
PS 1 - 67	Plain concrete grade 20 - 1000 mm wide x 100 mm thick paving around the building & edge of embankment on compacted earth bed and formwork to edge.	m	95						
PS 1 - 68	Allow for construction of R/C 300 x 300 mm <sup>2</sup> surface drain as depicted in Drawing.	Item	1						
PS 1 - 69	Turfing the embankment of the fill-up area	m <sup>2</sup>	400						
	Total of Page B - 10 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/PS-1 SUM**

**CONSTRUCTION OF PUMP HOUSE**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
PS 1	Page B - 1 of Bill PS 1			
	Page B - 2 of Bill PS 1			
	Page B - 3 of Bill PS 1			
	Page B - 4 of Bill PS 1			
	Page B - 5 of Bill PS 1			
	Page B - 6 of Bill PS 1			
	Page B - 7 of Bill PS 1			
	Page B - 8 of Bill PS 1			
	Page B - 9 of Bill PS 1			
	Page B - 10 of Bill PS 1			
KMU/PS-1	Total of KMU/PS-1 Summary to KMU/PS Grand Summary			

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

**BILL OF QUANTITIES**

**BILL NO : KMU/PS-2 : SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT**

**GOTHATUWA, KOLONNAWA PUMP HOUSE**

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.
	<b><u>Pumps</u></b>								
PS 2 - 1	Horizontal split casing double suction centrifugal pumping sets with a pumping capacity of 14 m <sup>3</sup> /min at a total head of 50m; complete with motor, couplings mounted on a common base frame complete with accessories for installation. Rate to include for supplementary impeller to operate the pumps at capacity of 12 m <sup>3</sup> /min at 42 m head.	Nr.	3						
PS 2 - 2	Submersible sump pumps with a capacity of 150 l/min at 10m head, complete with discharge elbows, submersible motor cable, lifting chain, Guide bars and other accessories.	Nr.	4						
	<b><u>Spares</u></b>								
PS 2 - 3	Spare parts recommended by the manufacturers for operation of item No. PS2-01 for ten years inclusive of minimum spare parts listed under specification.	Item	1						
PS 2 - 4	Spare parts recommended by the manufacturers for operation of item No. PS2-02 for ten years inclusive of minimum spare parts listed under specification.	Item	1						
	<b><u>Valves</u></b>								
PS 2 - 5	500 mm dia.PN 16, hand wheel operated Double Flanged CHI Butterfly valve complete with valve position indicator and provision for fixing limit switches.	Nr.	4						
PS 2 - 6	500 mm dia.PN 16 CI D/F Non-Return Valve with suitable counter weight.	Nr.	3						
	Total of Page B - 12 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/PS-2 : SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT

GOTHATUWA, KOLONNAWA PUMP HOUSE

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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.
PS 2 - 7	500mm dia. D/F PN 16 Motor Operated Butterfly Valve.	Nr.	3						
PS 2 - 8	600 mm PN 16, D/F hand wheel operated CI butterfly valve complete with valve position indicator.	Nr.	1						
PS 2 - 9	100 mm dia. Double orifice air valve	Nr.	1						
PS 2 - 10	80 mm dia. D/F PN 16, hand wheel operated CI gate valve for wash out pipe.	Nr.	1						
PS 2 - 11	80 mm dia. CI D/F Gate Valve for sump pump discharge pipe	Nr	4						
PS 2 - 12	80 mm dia. PN 16, CI D/F Non-Return valve for sump pump discharge pipe.	Nr	4						
	<b>Pipes and Fittings</b>								
	<b>Suction Pipes</b>								
PS 2 - 13	500 mm dia. DI flanged Bell Mouth	Nr	4						
PS 2 - 14	500 mm dia. DI D/F 90 deg. Bend	Nr	4						
PS 2 - 15	500 mm dia. 1200 mm long DI, DF pipe piece with puddle collar.	Nr	4						
PS 2 - 16	500 mm x 350 mm F/PE steel eccentric taper welded with pipe piece upto suction butterfly valve	Nr	3						
PS 2 - 17	350mm dia harnessed coupling	Nr	3						
	Total of Page B - 13 carried to Bill Summary								



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GOTHATUWA, KOLONNAWA PUMP HOUSE

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PS 2 - 18	250 mm dia harnesssed coupling	Nr	3						
PS 2 - 19	500 mm x 250 mm F/PE steel concentric taper welded with pipe piece upto Non-Return valve.	Nr	3						
PS 2 - 20	500 mm flange Adapter for steel pipe	Nr	3						
PS 2 - 21	500 mm dia. 1200 mm long F/PE steel pipe piece.	Nr	3						
PS 2 - 22	500 mm dia blank flange	Nr	2						
	<b>Common Delivery Line</b>								
PS 2 - 23	500 mm dia. Steel 90° bend welded with 500 mm flanged pipe piece on one side and 500 mm x 600 mm taper & 800 mm long pipe piece on otherside.	Nr	1						
PS 2 - 24	600 mm dia. Harnesssed couplings for steel pipe.	Nr	5						
PS 2 - 25	600 mm x 600 mm x 500 mm steel Tee with flanged PN 16 500 mm branch welded with 800 mm long 600 mm dia. steel pipe pieces on other sides.	Nr	3						
PS 2 - 26	600 mm dia. steel bend welded with approx.. 2000 mm long P/E pipe pieces on eitherside.	Nr	1						
PS 2 - 27	600 mm dia. F/PE steel piece 2700 mm long	Nr	1						
PS 2 - 28	600 mm dia. P/N 16 Double flanged, electro-magnetic type flow meter.	Nr	1						
	Total of Page B - 14 carried to Bill Summary								

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

## BILL OF QUANTITIES

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GOTHATUWA, KOLONNAWA PUMP HOUSE

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PS 2 - 29	600 mm dia flanged adapter.	Nr	1						
PS 2 - 30	600 mm dia. F/PE steel pipe 3000 mm long , with puddle collar.	Nr	1						
PS 2 - 31	600 mm dia. F/PE steel pipe 4200 mm long.	Nr	1						
PS 2 - 32	600 mm dia. Flange adapter.	Nr	1						
PS 2 - 33	600 mm dia. DI, D/F pipe 1000 mm long with puddle collar.	Nr	1						
PS 2 - 34	600 mm x 800 mm DI, DF taper	Nr	1						
PS 2 - 35	200 mm dia. Steel pipe with necessary fittings to connect surge tanks to pumping main.	Nr	2						
PS 2 - 36	80 mm dia medium duty GI pipes, fittings, brackets, supports and accessories for sump pump delivery lines as per drawing.	Nr	2						
PS 2 - 37	25 mm dia medium duty GI pipes fittings & valves for manual air release line including hose connection valve as per drawing.	Nr	1						
PS 2 - 38	80 mm dia medium duty GI Pipe line from washout tapping point on the common delivery line upto sump as indicated on drg. No.M/01. Rate to include all fittings, supports and brackets etc.	Nr	1						
Total of Page B - 15 carried to Bill Summary									

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

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BILL NO : KMU/PS-2 : SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT

GOTHATUWA, KOLONNAWA PUMP HOUSE

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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.
	<b><u>Surge Vessels</u></b>								
PS 2 - 39	Replaceable bladder type surge vessels with a volume of 15 m <sup>3</sup> and maximum working pressure of 15 bar. Rate to include for level gauges, and other accessories.	Nr	2						
	<b><u>Ventilation System</u></b>								
PS 2 - 40	Electrical motor driven ventilation fan of capacity 70 m <sup>3</sup> /min rate to include for necessary brackets & accessories.	Nr.	1						
PS 2 - 41	Electrical motor driven axial flow ventilation fan for pump house each with capacity of 60 m <sup>3</sup> /min	Nr.	1						
PS 2 - 42	450mm x 450 mm GI fabricated air ducting complete with necessary brackets, bends ends etc. as per Drg.No.M/03.	Sets	1						
	<b><u>Overhead Crane</u></b>								
PS 2 - 43	Overhead bridge crane, with minimum rated lifting capacity of 3 Ton complete with trolley, manually operated chain block and manual chain operator for traversing.	Item	1						
	Total of Page B - 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 : KMU/PS-2 SUM**

**SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
PS 2	Page B - 12 of Bill PS 2			
	Page B - 13 of Bill PS 2			
	Page B - 14 of Bill PS 2			
	Page B - 15 of Bill PS 2			
	Page B - 16 of Bill PS 2			
KMU/PS-2	Total of KMU/PS-2 Summary to KMU/PS Grand Summary			

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

**BILL OF QUANTITIES**

**BILL NO : KMU/PS-3 : INSTALLATION OF MECHANICAL EQUIPMENT**

**GOTHATUWA, KOLONNAWA PUMP HOUSE**

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.
PS 3 - 1	Installation of pumps and accessories supplied under BOQ Item No. KMU/PS-2-01.	Set	3						
PS 3 - 2	Installation of pumps and accessories supplied under BOQ Item No. KMU/PS-2-02.	Set	4						
PS 3 - 3	Installation of pipes, fittings and valves supplied under BOQ Item No. KMU/PS-2-05 to KMU/PS-2-37.	Lot	1						
PS 3 - 4	Installation of Surge Vessels and accessories supplied under BOQ No. KMU/PS-2-38	Nr.	2						
PS 3 - 5	Installation of ventilation fans supplied under BOQ No. MU/PS-2-39.	Nr.	2						
PS 3 - 6	Installation of ventilation fans and GI fabricated air ducting supplied under BOQ No. KMU/PS-2 -40 & KMU/PS-2-41	Nr.	2						
PS 3 - 7	Installation of overhead crane supplied under BOQ No. KMU/PS-2-42	Item							
PS 3 - 8	Testing, commissioning and set to work of all equipment supplied & installed under Bill No. KMU/PS-2.	Item							
Total of Page B - 18 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/PS-3 SUM**

**INSTALLATION OF PUMPS AND ELECTRICAL EQUIPMENT**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
PS 3	Page B - 18 of Bill PS 3			
KMU/PS-3	Total of KMU/PS-3 Summary to KMU/PS Grand Summary			

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

**BILL OF QUANTITIES**

**BILL NO. KMU/PS-4 : SUPPLY AND DELIVERY OF PIPES & FITTINGS**

**GOTHATUWA KOLONNAWA PUMP HOUSE**

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            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 &amp; nuts, Denso primer, paste, protection tape and all other associated material required for complete installation.</p> <p><b>Inlet Pipe</b></p>								
PS 4 - 1	1200 mm dia. All Flanged Tee	Nr	1						
PS 4 - 2	1200 mm dia Butterfly Valve	Nr	1						
PS 4 - 3	1200 mm dia. Flanged Adapter for Steel Pipe	Nr	1						
PS 4 - 4	150 mm dia Gate Valve	Nr	1						
PS 4 - 5	150 mm dia Double Orifice Air Valve	Nr	1						
PS 4 - 6	1200 mm x 150mm dia Double Socket Tee with Flanged Branch	Nr	1						
PS 4 - 7	1200 mm dia 45° D/F DI bend	Nr	1						
PS 4 - 8	1200 mm dia. 925 mm long F/PE DI Pipe Piece	Nr	1						
PS 4 - 9	1200 mm dia. 45° DI Socketed Bend	Nr	1						
	Total of Page B - 20 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/PS-4 : SUPPLY AND DELIVERY OF PIPES &amp; FITTINGS

GOTHATUWA KOLONNAWA PUMP HOUSE

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
PS 4 - 10	1200 mm dia. 1520 mm long P/E DI Pipe Piece	Nr	1						
PS 4 - 11	1200 mm dia. 5 5/8° DI Socketed Bend	Nr	1						
PS 4 - 12	1200 mm dia. 6640 mm long P/E DI Pipe Piece	Nr	1						
PS 4 - 13	1200 mm dia Slip on Coupling	Nr	1						
PS 4 - 14	1200 mm dia. 1580 mm long P/E DI Pipe Piece with Puddle Flange	Nr	1						
	<b>Transmission Main from Gate to Pump House</b>								
PS 4 - 15	800 mm dia DI Pipes with self anchoring Tie Bar Joints	m	215						
	<b>800 mm dia DI Double Flange Bends</b>								
PS 4 - 16	11 1/4°	Nr	4						
PS 4 - 17	22 1/2°	Nr	2						
PS 4 - 18	45°	Nr	4						
PS 4 - 19	90°	Nr	1						
	<b>800 mm dia DI Tie Bar Flange Spigot &amp; Flange Socket</b>								
PS 4 - 20	Tie Bar Flange Spigot 600 mm long	Nr	12						
PS 4 - 21	Tie Bar Flange Socket 700 mm long	Nr	12						
	Total of Page B - 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 : KMU/PS-4 SUM**

**SUPPLY AND DELIVERY OF 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
PS 4	Page B - 20 of Bill PS 4			
	Page B - 21 of Bill PS 4			
KMU/PS-4	Total of KMU/PS-4 Summary to KMU/PS Grand Summary			

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

## BILL OF QUANTITIES

BILL NO. KMU/PS-5 : LAYING AND INSTALLATION OF YARD PIPING

GOTHATUWA KOLONNAWA PUMP HOUSE

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, anchor blocks, pipe brackets, supports etc. as depicted in drawing complete.								
	<b>Inlet Pipe</b>								
PS 5 - 1	1200 mm dia. All Flanged Tee	Nr	1						
PS 5 - 2	1200 mm dia Butterfly Valve	Nr	1						
PS 5 - 3	1200 mm dia. Flanged Adapter for Steel Pipe	Nr	1						
PS 5 - 4	150 mm dia Gate Valve	Nr	1						
PS 5 - 5	150 mm dia Double Orifice Air Valve	Nr	1						
PS 5 - 6	1200 mm dia Air Valve Tee	Nr	1						
PS 5 - 7	1200 mm dia 45° D/F DI bend	Nr	1						
PS 5 - 8	1200 mm dia. 925 mm long F/PE DI Pipe Piece	Nr	1						
PS 5 - 9	1200 mm dia. 45° DI Socketed Bend	Nr	1						
PS 5 - 10	1200 mm dia. 1520 mm long P/E DI Pipe Piece	Nr	1						
PS 5 - 11	1200 mm dia. 5 5/8° DI Socketed Bend	Nr	1						
	Total of Page B - 23 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO. KMU/PS-5 : LAYING AND INSTALLATION OF YARD PIPING**

**GOTHATUWA KOLONNAWA PUMP HOUSE**

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
PS 5 - 12	1200 mm dia. 6640 mm long P/E DI Pipe Piece	Nr	1						
PS 5 - 13	1200 mm dia SLIP on Coupling	Nr	1						
PS 5 - 14	1200 mm dia. 1580 mm long P/E DI Pipe Piece with Puddle Flange	Nr	1						
PS 5 - 15	Field Hydrostatic Pressure and Leakage Test, Description and cleaning of pipelines as specified.	Item							
	<b><u>Transmission Main from Gate to Pump House</u></b>								
PS 4 - 15	800 mm dia DI Pipes with self anchoring Tie Bar Joints	m	215						
	<b>800 mm dia DI Double Flange Bends</b>								
PS 4 - 16	11 1/4°	Nr	4						
PS 4 - 17	22 1/2°	Nr	2						
PS 4 - 18	45°	Nr	4						
PS 4 - 19	90°	Nr	1						
	<b>800 mm dia DI Tie Bar Flange Spigot &amp; Flange Socket</b>								
PS 4 - 20	Tie Bar Flange Spigot 600 mm long	Nr	12						
PS 4 - 21	Tie Bar Flange Socket 700 mm long	Nr	12						
	Total of Page B - 24 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/PS-5 SUM**

**LAYING AND INSTALLATION OF YARD PIPING**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
PS 5	Page B - 23 of Bill PS 5 Page B - 24 of Bill PS 5			
KMU/PS-5	Total of KMU/PS-5 Summary to KMU/PS Grand Summary			

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

## BILL OF QUANTITIES

BILL NO. KMU/PS-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA, KOLONNAWA PUMP HOUSE

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
<b>PS-6.1</b>	<b><u>Low Voltage Panels</u></b> <b><u>Supply &amp; Deliver to Contractor's Stores</u></b>								
PS 6.1 - 1	Incoming Panel	Panel	1						
PS 6.1 - 2	Motor Control	Panel	3						
PS 6.1 - 3	Ancillary Panel	Panel	1						
PS 6.1 - 4	Fan Switch Panel	Panel	1						
PS 6.1 - 5	Spare Parts and Accessories	Lot	1						
	Total of Page B - 26 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/PS-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA, KOLONNAWA PUMP HOUSE

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
<b>PS-6.2</b>	<b><u>Battery System</u></b> <b>Supply &amp; Deliver to Contractor's Stores</b>								
PS 6.2 - 1	Battery Charger Panel with Batteries	Panel	1						
PS 6.2 - 2	DC Panel (110V/24V)	Panel	1						
PS 6.2 - 3	Spare Parts and Accessories	Lot	1						
Total of Page B - 27 Carried to Bill Summary									

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

## BILL OF QUANTITIES

BILL NO. KMU/PS-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA, KOLONNAWA PUMP HOUSE

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
PS-6.3	<u>Local Control Panel</u> Supply & Deliver to Contractor's Stores								
PS 6.3 - 1	Sump Pump Switch Board	Panel	1						
Total of Page B - 28 Carried to Bill Summary									

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

**BILL OF QUANTITIES**

**BILL NO. KMU/PS-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT**

**GOTHATUWA, KOLONNAWA PUMP HOUSE**

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
<b>PS-6.4</b>	<b><u>Instrumentation</u></b>								
	<b>Supply &amp; Deliver to Contractor's Stores</b>								
PS 6.4 - 1	Instrumentation Panel	Panel	1						
PS 6.4 - 2	Electro Magnetic Flow Measuring Devices (600 mm)	Set	1						
PS 6.4 - 3	Immersion Type Level Measuring Devices	Set	1						
PS 6.4 - 4	Electrode Type Level Measuring Devices	Set	1						
PS 6.4 - 5	Pressure Measuring Devices	Set	4						
PS 6.4 - 6	Accessories and Spare Parts	Set	1						
	Total of Page B - 29 Carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO. KMU/PS-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA, KOLONNAWA PUMP HOUSE

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
<b>PS-6.5</b>	<b>Miscellaneous Materials</b> <b>Supply &amp; Deliver to Contractor's Stores</b>								
PS 6.5 - 1	Wire and Cables "Wires and Cables" including the incoming cables (from CEB terminals from DG terminals) to the main incoming panel and all cabling from incoming panel to final equipment.	Lot	1						
PS 6.5 - 2	Grounding System	Lot	1						
PS 6.5 - 3	Required Other Materials (Cable Rack, Conduit Pipe etc.)	Lot	1						
	Total of Page B - 30 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/PS-6 SUM**

**SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
PS 6	All Items in Page B - 26 in Bill No. KMU/PS-6 in Section PS-6.1			
	All Items in Page B - 27 in Bill No. KMU/PS-6 in Section PS-6.2			
	All Items in Page B - 28 in Bill No. KMU/PS-6 in Section PS-6.3			
	All Items in Page B - 29 in Bill No. KMU/PS-6 in Section PS-6.4			
	All Items in Page B - 30 in Bill No. KMU/PS-6 in Section PS-6.5			
KMU/PS-6	Total of KMU/PS-6 Summary to KMU/PS Grand Summary			

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

## BILL OF QUANTITIES

BILL NO. KMU/PS-7 : INSTALLATION OF ELECTRICAL EQUIPMENT

GOTHATUWA, KOLONNAWA PUMP HOUSE

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
	<b><u>Installation of Electrical Equipment</u></b> <b>Erect, make all connections, test and set to work the following</b>								
PS 7 - 1	All items in Bill No. KMU/PS-6 in Section PS-6.1	LS							
PS 7 - 2	All items in Bill No. KMU/PS-6 in Section PS-6.2	LS							
PS 7 - 3	All items in Bill No. KMU/PS-6 in Section PS-6.3	LS							
PS 7 - 4	All items in Bill No. KMU/PS-6 in Section PS-6.4	LS							
PS 7 - 5	All items in Bill No. KMU/PS-6 in Section PS-6.5	LS							
	Total of Page B - 32 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/PS-7 SUM**

**INSTALLATION OF ELECTRICAL EQUIPMENT**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
PS 7	Page B - 32 of Bill PS 7			
KMU/PS-7	Total of KMU/PS-7 Summary to KMU/PS Grand Summary			

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# **Gothatuwa Transmission Main**

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 1 : SUPPLY AND DELIVERY OF DI PIPES &amp; FITTINGS

GOTHATUWA TRANSMISSION MAIN

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 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 &amp; nuts, Denso primer, paste, protection tape and all other associated material required for complete installation.</p> <p><b>Transmission Main (DI)</b> <b>Socket &amp; Spigot Pipes</b></p>								
TM 1 - 1	500 mm dia	m	1800						
TM 1 - 2	800 mm dia	m	2300						
	<b>Pipes with Self-anchoring Tie Bar Joints</b>								
TM 1 - 3	800 mm dia	m	90						
	<b>Flange Spigot with Self-anchoring Tie Bar Joints</b>								
TM 1 - 4	800 mm dia - 600 mm long	Nr	2						
	<b>Flange Socket with Self-anchoring Tie Bar Joints</b>								
TM 1 - 5	800 mm dia - 700 mm long	Nr	2						
	Total of Page B - 35 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 1 : SUPPLY AND DELIVERY OF DI PIPES &amp; FITTINGS

GOTHATUWA TRANSMISSION MAIN

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
	<b>Distribution Main (DI)</b>								
	<b>Socket &amp; Spigot Pipes</b>								
TM 1 - 6	300 mm dia	m	1725						
TM 1 - 7	500 mm dia	m	1770						
	<b>Transmission Main (DI)</b>								
	<b>Double Socket Bends</b>								
TM 1 - 8	500 mm dia 11 1/4°	Nr	5						
TM 1 - 9	500 mm dia 22 1/2°	Nr	5						
TM 1 - 10	500 mm dia 90°	Nr	2						
TM 1 - 11	800 mm dia 11 1/4°	Nr	11						
TM 1 - 12	800 mm dia 22 1/2°	Nr	13						
	<b>Double Flanged Bend</b>								
TM 1 - 13	800 mm dia 45° Bend	Nr	1						
TM 1 - 14	800 mm dia 22 1/2° Bend	Nr	1						
	Total of Page B - 36 Carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO. KMU/TM 1 : SUPPLY AND DELIVERY OF DI PIPES &amp; FITTINGS

GOTHATUWA TRANSMISSION MAIN

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
	<b><u>Distribution Main (DI)</u></b>								
	<b>Double Socket Bend</b>								
TM 1 - 15	300 mm dia 11 1/4°	Nr	10						
TM 1 - 16	300 mm dia 22 1/2°	Nr	8						
TM 1 - 17	300 mm dia 45°	Nr	2						
TM 1 - 18	300 mm dia 90°	Nr	1						
TM 1 - 19	500 mm dia 11 1/4°	Nr	5						
TM 1 - 20	500 mm dia 22 1/2°	Nr	5						
TM 1 - 21	500 mm dia 90°	Nr	2						
	<b><u>For Culvert Crossing in Transmission Main (DI)</u></b>								
	<b>Socket &amp; Spigot Pipe</b>								
TM 1 - 22	500 mm dia 3000 mm long	Nr	7						
TM 1 - 23	800 mm dia 3000 mm long	Nr	2						
	<b><u>For Culvert Crossing in Distribution Main</u></b>								
	<b>Socket &amp; Spigot Pipes</b>								
TM 1 - 24	300 mm dia 3000 mm long	Nr	2						
	Total of Page B - 37 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 1 : SUPPLY AND DELIVERY OF DI PIPES &amp; FITTINGS

GOTHATUWA TRANSMISSION MAIN

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
TM 1 - 25	500 mm dia 3000 mm long <b>For Air Valves in Transmission Main (DI)</b> <b>Double Socket Tee with Flanged Branch</b>	Nr	7						
TM 1 - 26	500 x 100 mm dia	Nr	1						
TM 1 - 27	800 x 200 mm dia <b>Double Flange Tapers</b>	Nr	3						
TM 1 - 28	200 - 150 mm dia <b>Double Flange Pipe</b>	Nr	3						
TM 1 - 29	100 mm dia - 300 mm long <b>For Air Valves in Distribution Main (DI)</b> <b>Double Socket Tee with Flange Branch</b>	Nr	1						
TM 1 - 30	300 x 80 mm dia	Nr	2						
TM 1 - 31	500 x 100 mm dia <b>Double Flange Pipe</b>	Nr	1						
TM 1 - 32	80 mm dia. - 250 mm long	Nr	2						
TM 1 - 33	100 mm dia. - 250 mm long	Nr	1						
	Total of Page B - 38 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO. KMJ/TM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS**

**GOTHATUWA TRANSMISSION MAIN**

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
	<b><u>For Washouts in Transmission Main (DI)</u></b>								
	<b>Double Socket Level Invert Tees with Flanged Branch</b>								
TM 1 - 34	500 x 100 mm dia.	Nr	1						
TM 1 - 35	800 x 200 mm dia.	Nr	4						
	<b><u>For Washouts in Distribution Main (DI)</u></b>								
	<b>Double Socket Level Invert Tees with Flanged Branch</b>								
TM 1 - 36	300 x 80 mm dia	Nr	3						
TM 1 - 37	500 x 100 mm dia	Nr	1						
	<b>Double Flange Pipe</b>								
TM 1 - 38	80 mm dia 1000 mm long	Nr	3						
TM 1 - 39	100 mm dia 1000 mm long	Nr	1						
	<b><u>For Junction in Transmission Main</u></b>								
	<b>All Flanged Tee</b>								
TM 1 - 40	800 x 800 mm dia.	Nr	1						
	<b>Double Flange Tapers</b>								
TM 1 - 41	800 - 500 mm dia	Nr	1						
	Total of Page B - 39 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO. KMU/TM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS**

**GOTHATUWA TRANSMISSION MAIN**

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
TM 1 - 42	800 - 600 mm dia <b>Flange Adaptors</b>	Nr	1						
TM 1 - 43	500 mm dia	Nr	1						
TM 1 - 44	600 mm dia	Nr	3						
TM 1 - 45	800 mm dia <b>Double Flanged Pipe</b>	Nr	1						
TM 1 - 46	600mm dia - 500 mm long <b>Plain Ended Spigot Pipe</b>	Nr	1						
TM 1 - 47	500 mm dia. - 1000 mm long	Nr	1						
TM 1 - 48	600 mm dia - 1000 mm long	Nr	1						
TM 1 - 49	800 mm dia 1000 mm long <b>Socket &amp; Spigot Pipe</b>	Nr	1						
TM 1 - 50	600 mm dia - 5500 mm long <b>Blank Flange</b>	Nr	3						
TM 1 - 51	600 mm dia.	Nr	1						
	Total of Page B - 40 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO. KMU/TM 1 : SUPPLY AND DELIVERY OF DI PIPES & FITTINGS**

**GOTHATUWA TRANSMISSION MAIN**

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
	<b>Polythene Sleeving</b>								
TM 1 - 52	For 800mm dia pipe	m	2875						
TM 1 - 53	For 500mm dia pipe	m	4463						
TM 1 - 54	For 300mm dia pipe	m	1984						
Total of Page B - 41 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/TM-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
TM 1	Page B - 35 of Bill TM 1			
	Page B - 36 of Bill TM 1			
	Page B - 37 of Bill TM 1			
	Page B - 38 of Bill TM 1			
	Page B - 39 of Bill TM 1			
	Page B - 40 of Bill TM 1			
	Page B - 41 of Bill TM 1			
KMU/TM-1	Total of KMU/TM-1 Summary to KMU/TM Grand Summary			

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

## BILL OF QUANTITIES

BILL NO.KMU/TM-2 : SUPPLY AND DELIVERY OF PVC PIPES SPECIALS &amp; FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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 and fittings shall be with rubber ring joints unless specified</p> <p>110 and 160 mm dia pipes shall be PVC - Type 600</p> <p>225 mm dia. PVC pipes shall be PVC - Type 1000</p> <p>All PVC pipes &amp; fittings shall be - Type 1000</p> <p>All flanges shall be PN-16</p> <p>Supply and Delivery at site all PVC pipes and fittings including rubber rings, jointing materials and all other associated materials required for complete installation</p> <p><b><u>For Washouts in Transmission Main</u></b></p> <p><b>Tapered Core /Tapered Flange</b></p>								
TM 2 - 1	225 mm dia (Type 1000)	Nr	4						
TM 2 - 2	110 mm dia (Type 1000)	Nr	1						
	<b>PVC Socket and Spigot Pipes</b>								
TM 2 - 3	225 mm dia Type 1000 (Provisional Quantity)	m	10						
TM 2 - 4	160 mm dia. Type 600 (Provisional Quantity)	m	6						
TM 2 - 5	110 mm dia Type 600 (Provisional Quantity)	m	2						
	Total of Page B - 43 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO.KMU/TM-2 : SUPPLY AND DELIVERY OF PVC PIPES SPECIALS &amp; FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
	<b>For Washouts in Distribution Main</b>								
	<b>Tapered Core /Tapered Flange</b>								
TM 2 - 6	90 mm dia. (Type 1000)	Nr	3						
TM 2 - 7	110 mm dia. (Type 1000)	Nr	1						
	<b>PVC Socket and Spigot Pipes</b>								
TM 2 - 8	90 mm dia. (Type 600)	m	10						
TM 2 - 9	110 mm dia. (Type 600)	m	2						
	Total of Page B - 44 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/TM-2 SUM**

**SUPPLY AND DELIVERY OF PVC 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
TM 2	Page B - 43 of Bill TM 2			
	Page B - 44 of Bill TM 2			
KMU/TM-2	Total of KMU/TM-2 Summary to KMU/TM Grand Summary			

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

**BILL OF QUANTITIES**

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

**GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)**

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 Flanges shall be PN-16 All Valves shall be with non-rising spindles  Supply and Delivery at site all valves, 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  <u>Section Valves in Transmission Main</u>  <b>Butterfly Valves</b> TM 3 - 1 600 mm dia. Nr 1  <b>Flange Adaptors</b> TM 3 - 2 600 mm dia Nr 1 TM 3 - 3 600 mm dia heavy duty hinged type manhole covers Nr 1  <u>For Air Valves in Transmission Main</u> <b>Double Orifice Air Valve</b> TM 3 - 4 150 mm dia Nr 3 TM 3 - 5 100 mm dia Nr 1  <b>Gate Valve (Resilient Seated)</b> TM 3 - 6 150 mm dia Nr 3								
	Total of Page B - 46 Carried to Bill Summary								

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

## BILL OF QUANTITIES

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

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
TM 3 - 7	100 mm dia.	Nr	1						
TM 3 - 8	600 mm dia. ventilated heavy duty hinged type manhole covers <u>For Air Valve in Distribution Main</u> <b>Double Orifice Air Valve</b>	Nr	4						
TM 3 - 9	80 mm dia	Nr	2						
TM 3 - 10	100 mm dia <b>Gate Valves ( Resilient Seated )</b>	Nr	1						
TM 3 - 11	80 mm dia	Nr	2						
TM 3 - 12	100 mm dia	Nr	1						
TM 3 - 13	600mm dia Ventilated heavy duty hinged type manhole covers <u>For Washouts in Transmission Main</u> <b>Gate Valves</b>	Nr	3						
TM 3 - 14	200 mm dia.	Nr	3						
TM 3 - 15	100 mm dia.	Nr	1						
TM 3 - 16	600 mm dia. Heavy duty hinged type manhole covers	Nr	4						
	Total of Page B - 47 carried to Bill Summary								

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

**BILL OF QUANTITIES**

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

**GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)**

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
TM 3 - 17	150 x 150 mm lockable heavy duty surface box.  <b><u>For Washouts in Distribution Main</u></b>  <b>Gate Valves</b>	Nr	4						
TM 3 - 18	80 mm dia	Nr	2						
TM 3 - 19	100 mm dia	Nr	1						
TM 3 - 20	150 x 150 mm lockable heavy duty surface box.	Nr	3						
TM 3 - 21	600 mm dia. heavy duty hinged type manhole covers	Nr	3						
	Total of Page B - 48 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/TM-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
TM 3	Page B - 46 of Bill TM 3 Page B - 47 of Bill TM 3 Page B - 48 of Bill TM 3			
KMU/TM-3	Total of KMU/TM-3 Summary to KMU/TM Grand Summary			

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

**BILL OF QUANTITIES**

**BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS**

**GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)**

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><b><u>Laying &amp; Jointing in Open Trench DI Pipes Specials &amp; Fittings as Specified.</u></b></p> <p>Rate to include for making of trial holes, excavation, cutting pipes, shoring &amp; dewatering, (where necessary), bedding TypeA unless otherwise specified, backfilling or filling with imported material (where necessary), compaction &amp; disposal of excess &amp; unsuitable material as directed by the Engineer and reinstatement of surface etc. as required.</p> <p><b><u>Transmission Main ( DI )</u></b></p> <p><b>Depth to invert of pipe not exceeding 2.5m</b></p>								
TM 4 - 1	500 mm dia pipe	m	1800						
TM 4 - 2	800 mm dia pipe	m	2300						
	<b>Extra over above items for depth to invert exceeding 2.5m (Provisional Quantity)</b>								
TM 4 - 3	500 mm dia pipe	m	360						
TM 4 - 4	800 mm dia pipe	m	690						
	<b>Extra over above items for installation of pipes &amp; fittings (including bends) with self anchoring tie bar joints.</b>								
TM 4 - 5	800 mm dia	m	90						
	Total of Page B - 50 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS**

**GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)**

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
	<b>Extra over above item for special bedding types. (Provisional Quantity)</b>								
TM 4 - 6	Type B - (500 mm dia)	m	180						
TM 4 - 7	Type B - (800 mm dia)	m	230						
TM 4 - 8	Type C - (500 mm dia)	m	360						
TM 4 - 9	Type C - (800 mm dia)	m	690						
	<b><u>Distribution Main (DI)</u></b>								
	<b>Depth to invert of pipe not exceeding 1.5m</b>								
TM 4 - 10	300 mm dia.	m	1725						
	<b>Depth to invert of pipe not exceeding 2.0 m</b>								
TM 4 - 11	500 mm dia.	m	1770						
	<b>Extra Over Item No. TM 4-10</b>								
	<b>Depth to invert of pipe exceeding 1.5 m (Prov. Quantity)</b>								
TM 4 - 12	300 mm dia	m	350						
	<b>Extra Over Item No. TM 4-11</b>								
	<b>Depth to invert of pipe exceeding 2.0 m (Prov. Quantity)</b>								
TM 4 - 13	500 mm dia.	m	360						
	Total of Page B - 51 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS**

**GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)**

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
	<b>Extra over above items for special bedding types (Provisional Quantity)</b>								
TM 4 - 14	Type B - (300 mm dia)	m	175						
TM 4 - 15	Type B - (500 mm dia)	m	180						
TM 4 - 16	Type C - (300 mm dia)	m	175						
TM 4 - 17	Type C - (500 mm dia)	m	180						
	<b><u>Extra over Items for Installation of Double Socket Bends in Transmission Main</u></b>								
	Rate to include for additional excavation, shoring, dewatering, form work for thrust blocks and all necessary items of work required for complete installation of bends. (mass concrete for thrust blocks measured seperately)								
TM 4 - 18	500 mm dia. - 11 1/4 <sup>o</sup> bend	Nr	5						
TM 4 - 19	500 mm dia. - 22 1/2 <sup>o</sup> bend	Nr	5						
TM 4 - 20	500 mm dia. - 90 <sup>o</sup> bend	Nr	2						
TM 4 - 21	800 mm dia. - 11 1/4 <sup>o</sup> bend	Nr	11						
TM 4 - 22	800 mm dia. - 22 1/2 <sup>o</sup> bend	Nr	13						
	Total of Page B - 52 Carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
	<b><u>Extra over Items for Installation of Double Socket Bends in Distribution Main</u></b>								
	Rate to include for additional excavation, shoring, dewatering, providing supports, thrust blocks and anchor blocks etc. and all necessary items of work required for complete installation of bends.								
TM 4 - 23	300 mm dia. - 11 1/4° bend	Nr	10						
TM 4 - 24	300 mm dia. - 22 1/2° bend	Nr	8						
TM 4 - 25	300 mm dia. - 45° bend	Nr	2						
TM 4 - 26	300 mm dia. - 90° bend	Nr	1						
	Rate to include for additional excavation, shoring, dewatering, form work for thrust blocks and all necessary items of work required for complete installation of bends. (mass concrete for thrust blocks measured seperately)								
TM 4 - 27	500 mm dia. - 11 1/4° bend	Nr	5						
TM 4 - 28	500 mm dia. - 22 1/2° bend	Nr	5						
TM 4 - 29	500 mm dia. - 90° bend	Nr	2						
	Total of Page B - 53 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
	<b>Extra over Items for Culvert Crossings in Transmission Main</b> <b>Complete as depicted in drawings</b> Rate to include for additional excavation, shoring, dewatering,coffer damming, diversion of waterway. Forming of embankment, rubble pitching, trench cut off walls breaking into existing structure , making good of any damage to the existing structures, embankment and any other item of works necessary for complete installation.								
	<b>Socket and Spiogot Pipes</b>								
TM 4 - 30	500 mm dia - 3000 mm long in Type A culvert	Nr	7						
TM 4 - 31	800 mm dia - 3000 mm long in Type A culvert	Nr	2						
	<b>Extra over Items for Culvert Crossings in Distribution Main</b> Rate to include for additional excavation, shoring, dewatering,coffer damming, diversion of waterway. Forming of embankment, rubble pitching, trench cut off walls breaking into existing structure, making good of any damage to the existing structures, embankment and any other item of works necessary for complete installation.								
TM 4 - 32	300 mm dia - 3000 mm long in Type A culverts	Nr	2						
TM 4 - 33	500 mm dia - 3000 mm long in Type A culverts	Nr	7						
	Total of Page B - 54 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
	<b><u>Extra over items for Air Valve Tees in Transmission Main</u></b> Rate to include for providing supports, thrust blocks, anchor blocks etc. and protection of joints.								
TM 4 - 34	<b>Socketted tee with Flange Branch</b> 500 x 100 mm dia.	Nr	1						
TM 4 - 35	800 x 200 mm dia.	Nr	3						
	<b><u>Extra over Items for Washout Tees in Transmission Main</u></b> Rate to include for additional excavation, shoring, dewatering, formwork for thrust blocks and all necessary items of work required for complete installation of tees and protection of joints (mass concrete for thrust blocks measured seperately)								
TM 4 - 36	<b>Socketted Level Invert Tee with Flange Branch</b> 500 x 100 mm dia.	Nr	1						
TM 4 - 37	800 x 200 mm dia.	Nr	4						
	<b><u>Extra over items for washout tees in Distribution Main</u></b> Rate to include for additional excavation, shoring, dewatering, providing supports, thrust blocks and anchor blocks etc. and all necessary items of work required for complete installation of tees and protection of joints.								
	Total of Page B - 55 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
TM 4 - 38	<b>Socketted Level Invert Tee with Flange Branch</b> 300 - 80 mm dia	Nr	3						
TM 4 - 39	500 - 100 mm dia	Nr	1						
	<b>Extra over Items for Air Valves in Distribution Main</b> Rate to include for providing supports and protection of joints								
TM 4 - 40	<b>Socketted Tee with Flange Branch</b> 300x 80 mm dia	Nr	2						
TM 4 - 41	500x 100 mm dia	Nr	1						
	<b>Extra over Items for Junction in (Gothatuwa) Transmission Main</b> Rate to include for additional excavation, shoring, dewatering and all necessary items of work required for complete installation and protection of joints.								
TM 4 - 42	<b>Plain Ended Spigot Pipes</b> 500 mm dia. - 1000 mm long	Nr	1						
TM 4 - 43	600 mm dia. 1000 mm long	Nr	1						
TM 4 - 44	800 mm dia 1000 mm long.	Nr	1						
	Total of Page B - 56 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
TM 4 - 45	<b>Double Flange Taper</b> 800-500 mm dia	Nr	1						
TM 4 - 46	800-600 mm dia	Nr	1						
	<b>Flange Adaptors</b>								
TM 4 - 47	500 mm dia	Nr	1						
TM 4 - 48	600 mm dia	Nr	2						
TM 4 - 49	800 mm dia	Nr	1						
	<b>All Flange Tee</b>								
TM 4 - 50	800 x 800 mm dia	Nr	1						
	<b>Socket and Spigot Pipe</b>								
TM 4 - 51	600 mm dia - 5500 mm long	Nr	3						
	<b>Blank Flange</b>								
TM 4 - 52	600 mm dia	Nr	1						
	<b><u>Field Hydrostatic Pressure and Leakage Test, Disinfection and Cleaning of Pipeline as Specified (Transmission &amp; Distribution Main)</u></b>								
TM 4 - 53	300 mm dia	m	1725						
	Total of Page B - 57 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 4 : LAYING AND INSTALLATION OF DI PIPES AND FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
TM 4 - 54	500 mm dia	m	3750						
TM 4 - 55	800 mm dia	m	2300						
	<b>Miscellaneous Work</b>								
TM 4 - 56	Mass concrete Grade 20 for thrust blocks and anchor blocks in Transmission Main & Distribution Main. (Provisional Quantity)  Rate to include for concrete supply, placing, curing and cube testing of concrete	m <sup>3</sup>	51						
TM 4 - 57	Supply & erection of NWSDB marker posts as depicted in Drawings (Provisional Quantity)	Nr	15						
	Total of Page B - 58 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/TM-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
TM 4	Page B - 50 of Bill TM 4			
	Page B - 51 of Bill TM 4			
	Page B - 52 of Bill TM 4			
	Page B - 53 of Bill TM 4			
	Page B - 54 of Bill TM 4			
	Page B - 55 of Bill TM 4			
	Page B - 56 of Bill TM 4			
	Page 5 - 57 of Bill TM 4			
	Page 5 - 58 of Bill TM 4			
KMU/TM-4	Total of KMU/TM-4 Summary to KMU/TM Grand Summary			

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 5 : LAYING AND INSTALLATION OF PVC PIPES SPECIALS &amp; FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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><b><u>Laying &amp; Jointing in Open Trench PVC Pipes Specials &amp; Fittings as Specified.</u></b></p> <p>Rate to include for making of trial holes, excavation, cutting pipes, shoring &amp; dewatering, (where necessary), bedding Type A unless otherwise specified, backfilling or filling with imported material (where necessary), compaction &amp; disposal of excess &amp; unsuitable material as directed by the Engineer and reinstatement of surface etc. as required.</p> <p><b><u>For Washouts in Transmission Main</u></b></p> <p><b>Tapered Core /Tapered Flange</b></p>								
TM 5 - 1	225 mm dia	Nr	4						
TM 5 - 2	110 mm dia	Nr	1						
	<p><b><u>PVC Socket and Spigot Pipes (length varies)</u></b></p>								
TM 5 - 3	225 mm dia (Provisional Quantity)	m	10						
TM 5 - 4	160 mm dia. (Provisional Quantity)	m	6						
TM 5 - 5	110 mm dia (Provisional Quantity)	m	2						
	<p><b><u>For Washouts in Distribution Main</u></b></p> <p><b>Tapered Core /Tapered Flange</b></p>								
TM 5 - 6	110 mm dia.	Nr	1						
	Total of Page B - 60 Carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO. KMU/TM 5 : LAYING AND INSTALLATION OF PVC PIPES SPECIALS &amp; FITTINGS

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
TM 5 - 7	90 mm dia.  <i>PVC Socket and Spigot Pipes (length varies)</i>	Nr	3						
TM 5 - 8	110 mm dia.	m	2						
TM 5 - 9	90 mm dia.	m	10						
Total of Page B - 61 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/TM-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
TM 5	Page B - 60 of Bill TM 5			
	Page B - 61 of Bill TM 5			
KMU/TM-5	Total of KMU/TM-5 Summary to KMU/TM Grand Summary			

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 6 : INSTALLATION OF VALVES

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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><b><u>Installation of Butterfly valves, Air valves &amp; Washouts - Gravity Main.</u></b></p> <p>Rate to include for making of trial hole, excavation, shoring &amp; 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 &amp; 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><b><u>Transmission Main</u></b></p> <p><b>Butterfly Valves Complete with Chambers and Manhole Covers</b></p> <p>600 mm dia Type 'B'</p> <p><b>Extra over Items for Chambers Only (Provisional Quantity)</b></p> <p>For depths exceeding those minimum depths indicated on drawings</p> <p>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</p>	Nr	3						
TM 6 - 2	Type B (Provisional Quantity)	m	3						
	Total of Page B - 63 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 6 : INSTALLATION OF VALVES

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
	<b><u>For Air Valves in Transmission Main</u></b> <b>Installation of air valves complete with tapers, isolating Gate valves, chambers and covers as depicted in Drawings.</b>								
TM 6 - 3	150 mm dia double orifice air valve 800 mm dia DI Pipe with Type 'C' chamber	Nr	3						
TM 6 - 4	100 mm dia double orifice air valve on 500 mm dia DI pipe with Type 'B' chamber	Nr	1						
	<b><u>For Air Valves in Distribution Main</u></b> <b>Installation of air valves complete with tapers, isolating Gate valves, chambers and covers as depicted in Drawings.</b>								
TM 6 - 5	80 mm dia double orifice air valve on 300 mm dia DI Pipe with Type 'B' chamber	Nr	2						
TM 6 - 6	100 mm dia double orifice air valve on 500 mm dia DI pipe with Type 'B' chamber	Nr	1						
	<b><u>For Washouts in Transmission Main (DI)</u></b> <b>Installation of washout arrangements as depicted in Drawings.</b> Complete with Gate valve and chamber etc.								
TM 6 - 7	Washout Type 'A', 200 mm dia Gate Valve	Nr	3						
	Total of Page B - 64 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/TM 6 : INSTALLATION OF VALVES

GOTHATUWA TRANSMISSION MAIN  
(with Distribution Main)

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
TM 6 - 8	Washout Type 'A', 100 mm dia Gate Valve  <b>For Washouts in Distribution Main (DI)</b> <b>Installation of washout arrangements as depicted in Drawings.</b> Complete with Gate valve and chamber etc.	Nr	1						
TM 6 - 9	Washout Type 'A', 80 mm dia Gate Valve	Nr	2						
TM 6 - 10	Washout Type 'A', 100 mm dia Gate Valve	Nr	1						
Total of Page B - 65 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/TM-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
TM 6	Page B - 63 of Bill TM 6 Page B - 64 of Bill TM 6 Page B - 65 of Bill TM 6			
KMU/TM-6	Total of KMU/TM-6 Summary to KMU/TM Grand Summary			

# **Gothatuwa Ground Reservoir and Pump House**

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-1 : SITE WORKS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 1 - 1	Allow for demolishing existing building, boundary wall & toilet as depicted in drawing Nr. KMU/GR/G/01 and as specified in Technical Specification , backfill, disposal of all debris as directed by the Engineer complete.	Item							
GR 1 - 2	Allow for removal of existing fence within the proposed site as depicted in Drg. Nr. KMU/GR/G/01 re-usable fencing material to be stored and disposal of debris as directed by the Engineer complete.	Item							
	<b>Earth Works</b>								
GR 1 - 3	Allow for clearing site , uprootings trees and disposal of debris as directed by the Engineer.	Item							
GR 1 - 4	Allow for stripping 150 mm thick Top soil to an extent of 2000 mm from the outer wall of the proposed structure, stockpiling and re-use of suitable for engineering fill, disposal of unsuitable and of any surplus excavated material as directed by the Engineer.	Item							
GR 1 - 5	Allow for cutting and forming of earth to the grades and disposal of surplus excavated earth as directed.	Item							
GR 1 - 6	Allow for filling, forming and compacting earth to grades, rate to include for supplying approved earth if required for filling & compacting	Item							
GR 1 - 7	Allow for supplying and paving approved turfing to sloping sides of embankment of reservoir.	Item							
	Total of Page B - 67 Carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO. KMU/GR-1 : SITE WORKS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
	<b>Road Works</b>								
GR 1 - 8	Allow for construction of 6000 mm wide asphalt internal roads as depicted in the Drg. Nr. KMU/GR/G/02 and as specified in the technical specification complete.	m	60						
GR 1 - 9	Allow for construction of Asphalt drive area at the entrance of internal road ways as depicted in Drg. Nr. KMU/GR/G/02 and as depicted in the Technical Specification complete.	m <sup>2</sup>	180						
	<b>Electricity</b>								
GR 1 - 10	Allow for garden and security lighting as depicted in drawing complete with necessary PVC conduit pipes, wiring, switching, RC. Lamp posts from the panel board as depicted in the Technical Specification complete.	Nr	6						
	<b>Site Protection</b>								
GR 1 - 11	Allow for construction of 800 mm wide x 2000 mm deep gabian wall as depicted in Drg. No. KMU/GR/G/03. Rate to include for excavation, shoring, dewatering, backfilling etc. complete	m	12						
GR 1 - 12	Allow for construction of stormwater drains and kerbs along sides of the roads and drive area as depicted in Drg. No. KMU/GR/G/03 and as specified in specification complete.	Item							
GR 1 - 13	Allow for construction of gate with foundation, posts etc. As depicted in STD/C-9 complete.	Nr	2						
	Total of Page B - 68 Carried to Bill Summary								

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

BILL OF QUANTITIES

BILL NO. KMU/GR-1 : SITE WORKS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 1 - 14	Allow for supply and fixing PVC coated wire mesh fence with foundation posts etc. Complete as depicted in Drg. No. STD/C/9 (Provisional Quantity)	m	190						
	<b>Valve Chambers</b>								
GR 1 - 15	Allow for construction of inlet valve chamber and valve house (1 Nr.) 12550 x 2700 x 2000 mm deep in RC. Concrete 200 mm thick base and 250 mm thick walls complete.	Item							
GR 1 - 16	Allow for construction of outlet flow meter (1 Nr.) chamber 1800 x 1000 x 1400 mm deep in RC Concrete 150 mm thick base and 200 mm thick walls complete .	Item							
GR 1 - 17	Allow for construction of overflow chamber (1 Nr.) 1000 x 1000x 1500 mm deep in RC . Concrete, 150 mm thick base & walls complete.	Item							
	Total of Page B - 69 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/GR-1 SUM

**SITE WORKS**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
GR 1	Page B - 67 of Bill GR 1  Page B - 68 of Bill GR 1  Page B - 69 of Bill GR 1			
KMU/GR-1	Total of KMU/GR-1 Summary to KMU/GR Grand Summary			

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESRVOIR AND PUMP HOUSE

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
	<b><u>Excavation and Earthwork</u></b>								
GR 2 - 1	Excavation in any material other than rock. Rate to include for shoring, dewatering (where necessary) back filling, ramming compacting and disposal of surplus excavated material elsewhere as directed by the engineer. From formation level to 1.0 m depth.	m <sup>3</sup>	1320						
GR 2 - 2	From 1.0 to 2.0 m. depth	m <sup>3</sup>	1315						
GR 2 - 3	From 2.0 m to 4.0 m depth	m <sup>3</sup>	2680						
GR 2 - 4	From 4.0 m to 6.0 m depth	m <sup>3</sup>	880						
GR 2 - 5	Extra over for item Nr. 1, 2, 3, and 4 for excavation in rock (Provisional Quantity.)	m <sup>3</sup>	620						
GR 2 - 6	Forming embankment around reservoir and pumphouse with approved earth, filled rammed and compacted in 150 mm thick layers and to slope as directed	m <sup>3</sup>	140						
	<b><u>Concrete Work</u></b>								
	<b>Concrete Grade 15 (40)</b>								
	(Rate to include for supplying and placing of concrete as specified and with necessary formwork)								
GR 2 - 7	75 mm thick screed in column base and wall foundation	m <sup>2</sup>	6						
	Total of Page B - 71 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 2 - 8	75 mm thick screed in pumphouse base (18.80 m. level)	m <sup>2</sup>	275						
GR 2 - 9	75 mm thick screed in sump base(18.45m level)	m <sup>2</sup>	110						
GR 2 - 10	75 mm thick screed in reservoir base(20.30m level)	m <sup>2</sup>	965						
GR 2 - 11	Mass concrete filling to sloping sides of sump (provisional qty)	m <sup>3</sup>	40						
	<b>Concrete Grade 35 A (20)</b>								
	Rate to include for supplying and placing concrete (with temperature control) and curing as specified (reinforcement and formwork measured separately).								
GR 2 - 12	In column and wall foundation	m <sup>3</sup>	4						
GR 2 - 13	In base slab 600 mm thick (19.50 m level)	m <sup>3</sup>	165						
GR 2 - 14	In base slab 600 mm thick (19.15 m level)	m <sup>3</sup>	66						
GR 2 - 15	In base slab 600 mm thick (21.0 m level)	m <sup>3</sup>	580						
GR 2 - 16	In walls 650 - 400 mm thick	m <sup>3</sup>	390						
GR 2 - 17	In walls 650 mm thick	m <sup>3</sup>	275						
GR 2 - 18	In walls 750 mm thick	m <sup>3</sup>	125						
GR 2 - 19	In baffle walls 200 mm thick	m <sup>3</sup>	75						
	Total of Page B - 72 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESRVOIR AND PUMP HOUSE

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
GR 2 - 20	In columns 400 x 400 mm (C <sub>1</sub> & C <sub>5</sub> )	m <sup>3</sup>	23						
GR 2 - 21	In columns 500 x 300 mm (C <sub>2</sub> )	m <sup>3</sup>	9						
GR 2 - 22	In column 300 x 300 mm (C <sub>3</sub> & C <sub>4</sub> )	m <sup>3</sup>	5						
GR 2 - 23	In beams (B <sub>1</sub> & B <sub>2</sub> )	m <sup>3</sup>	3						
GR 2 - 24	In corbel beam	m <sup>3</sup>	26						
GR 2 - 25	In roof beam	m <sup>3</sup>	12						
GR 2 - 26	In staircase & platform and entrance platform	m <sup>3</sup>	9						
GR 2 - 27	In 200 mm thick floor slab (26.25 m level)	m <sup>3</sup>	17						
GR 2 - 28	In 250 mm thick reservoir roof slab (26.80m level)	m <sup>3</sup>	230						
	<b>Concrete Grade 35 A (20)</b>								
	Rate to include for supplying and placing concrete (with temperature control) reinforcement, formwork and curing as specified								
GR 2 - 29	In 200 x 400 mm. high kerb (26.80m level)	m	100						
GR 2 - 30	In 2000 x 1550 x 1300 mm. Ave high thrust block type I	Nr	3						
GR 2 - 31	In 1200 x 1430 x 1300 mm. Ave high thrust block type III	Nr	1						
	Total of Page B - 73 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 2 - 32	In 1000 x 1000 x 1300 mm. Ave high thrust block type IV	Nr	1						
GR 2 - 33	In 1300 x 1000 x 100 mm high valve support type I	Nr	3						
GR 2 - 34	In 1000 x 1000 x 100mm high valve support type II	Nr	2						
GR 2 - 35	In 1000 x 400 x 100mm high valve support type III	Nr	4						
GR 2 - 36	In 1300 x 2200 x 150 mm. Ave high pumpbase	Nr	3						
GR 2 - 37	In 3000 x 1500 x 200mm. Ave high generator base	Nr	1						
GR 2 - 38	In 150 mm thick generator bay floor slab (23.50 m level ) reinforced with BRC mesh A 252	m <sup>3</sup>	7						
	<b>Reinforcement</b>								
	Rate to include for supply and delivery to the site, cleaning as specified, cutting and bent to shape, placed in position, tied with G. I binding wire								
	<b>Tor Steel (460 N / mm<sup>2</sup> )</b>								
GR 2 - 39	8 mm dia	mt	2.4						
GR 2 - 40	10 mm dia	mt	9.6						
GR 2 - 41	12 mm dia	mt	33.7						
GR 2 - 42	16 mm dia	mt	62.5						
	Total of Page B - 74 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESRVOIR AND PUMP HOUSE

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
GR 2 - 43	20 mm dia	mt	211						
GR 2 - 44	25 mm dia	mt	37.5						
GR 2 - 45	32 mm dia	mt	13						
	<b>Mild Steel (250 N/ mm<sup>2</sup> )</b>								
GR 2 - 46	8 mm dia	mt	2						
	<b>Form Work</b>								
	Formwork in approved timber, rate to include for splayed edges, battens, strutting, bolting, wedging, easing, striking and removal								
	<b>Rough</b>								
GR 2 - 47	For sides of column base	m <sup>2</sup>	5						
GR 2 - 48	For sides of base slab (19.50 m level)	m <sup>2</sup>	30						
GR 2 - 49	For sides of base slab (19.15 m level)	m <sup>2</sup>	15						
GR 2 - 50	For sides of base slab (21.0 m level)	m <sup>2</sup>	70						
	<b>Wrought</b>								
GR 2 - 51	For sides of walls 650 - 400 mm thick	m <sup>2</sup>	1320						
	Total of Page B - 75 carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 2 - 52	For sides of walls 650 mm thick	m <sup>2</sup>	870						
GR 2 - 53	For sides of walls 700 mm thick	m <sup>2</sup>	325						
GR 2 - 54	For sides of baffle walls 200 mm thick	m <sup>2</sup>	745						
GR 2 - 55	For sides of columns (C <sub>1</sub> & C <sub>5</sub> )	m <sup>2</sup>	200						
GR 2 - 56	For sides of columns (C <sub>2</sub> )	m <sup>2</sup>	105						
GR 2 - 57	For sides of columns (C <sub>3</sub> & C <sub>4</sub> )	m <sup>2</sup>	60						
GR 2 - 58	For sides and soffit of beams (B <sub>1</sub> & B <sub>2</sub> )	m <sup>2</sup>	35						
GR 2 - 59	For sides and soffit of Corbel Beam	m <sup>2</sup>	90						
GR 2 - 60	For sides and soffit of Roof beams	m <sup>2</sup>	105						
GR 2 - 61	For sides and soffit of staircase and platform	m <sup>2</sup>	60						
GR 2 - 62	For sides and soffit of floor slab (26.25 m level)	m <sup>2</sup>	81						
GR 2 - 63	For sides and soffit of reservoir roof slab (26.80 m level)	m <sup>2</sup>	900						
	<b>Masonry Work</b>								
GR 2 - 64	200 mm thick block masonry wall in cement and sand mortar 1:5 (26.25 m level)	m <sup>2</sup>	340						
	Total of Page B - 76 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESRVOIR AND PUMP HOUSE

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
GR 2 - 65	100mm thick block masonry wall in cement and sand mortar 1:5 sides of base slab beam (21.6 m level) in contact with earth. <b>Metal Work</b> <b>Structural Steel Work</b>	m <sup>2</sup>	340						
GR 2 - 66	Supplying and fixing 102 x 51 x 10.42 kg/m, M.S.channel purlin on concrete roof beam as depicted in drawing. Rate to include for base plate cleats, bolts & nuts, two coats of approved anti-corrosive paint etc. complete. <b>Roof Work</b>	m	365						
GR 2 - 67	0.47 mm thick Zn/Al corrugated sheet roofing on M. S channel purlin (purlin measured separately)	m <sup>2</sup>	355						
GR 2 - 68	0.47 mm thick Zn/Al sheet 470 mm wide ridge capping	m	14						
GR 2 - 69	300 x 20 mm thick valance board in approved class 1 timber fixed to roof beam as per detail. Rate to include for two coats of approved quality enamel paint	m	28						
GR 2 - 70	300 x 20 mm thick barge board in approved class I timber fixed to roof beam as per detail. Rate to include for two coats approved quality enamel paint <b>Rain Water Disposal</b>	m	28						
GR 2 - 71	300 mm x 300mm square type G. I. gutter with all accessories fixed to valance board with G. I. bracket at 375 mm centres complete.	m	28						
	Total of Page B - 77 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 2 - 72	100 mm x 100 mm square type G. I. Down pipe with necessary accessories fixed complete to columns on sunken wooden plugs at suitable centres  <b>Aluminium Work</b> <b>Doors &amp; Windows</b> <i>All aluminium sections shall be in accordance with BS. 1470, 1471 and 1474.</i> <i>All aluminium extrusions shall be bronze anodized to a thickness of minimum 20 microns.</i> <i>Hardware items such as hinges, handles, latches fixtures etc. shall be stainless steel.</i> <i>Glazing shall be 5 mm thick clear glass.</i> <i>Supplying and fixing aluminium frame door and windows as depicted in drawing. Rate to include for hinges, locks and other accessories complete</i>	m	76						
GR 2 - 73	Door type D <sub>1</sub> , overall size 1000 x 2200 mm	Nr	1						
GR 2 - 74	Roller door type RD <sub>1</sub> , overall size 3000 x 3000mm	Nr	1						
GR 2 - 75	Roller door type RD <sub>2</sub> , overall size 4000 x 3000 mm	Nr	1						
GR 2 - 76	Window type W <sub>1</sub> , overall size 1800 x 1800 mm	Nr	7						
GR 2 - 77	Window type W <sub>2</sub> , overall size 1800 x 1800 mm with louvers	Nr	2						
	Total of Page B - 78 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESRVOIR AND PUMP HOUSE

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
GR 2 - 78	Window type W <sub>3</sub> overall size 1550 x 2100 mm with louvers	Nr	1						
	<b>Wall and Floor Finishes</b>								
GR 2 - 79	16 mm thick plastering in cement, lime and sand 1:1: 5 finished smooth with lime putty on internal faces of walls and columns	m <sup>2</sup>	520						
GR 2 - 80	16 mm thick plastering in cement, lime and sand 1:1: 5 finished smooth with lime putty on narrow width not exceeding 100 mm wide	m	90						
GR 2 - 81	16mm thick plastering in cement lime & sand 1:1:5 finished semi - rough external faces of walls and columns	m <sup>2</sup>	435						
GR 2 - 82	16 mm thick plastering in cement, lime and sand 1:1: 5 finished smooth with lime putty on narrow width not exceeding 100 mm wide	m	90						
GR 2 - 83	20 mm thick plinth plastering in cement sand 1:3 finished smooth with neat red cement float	m <sup>2</sup>	25						
GR 2 - 84	20 mm thick cement and sand 1:3 mortar rendering to floor slab and finish smooth with neat red cement slurry	m <sup>2</sup>	135						
GR 2 - 85	20 mm thick cement and sand 1:3 mortar rendering to staircase and platform	m <sup>2</sup>	35						
GR 2 - 86	20 mm thick 100 mm high skirting in cement and sand 1:3 mortar finished smooth with neat red cement floor	m	55						
	Total of Page B - 79 carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESRVOIR AND PUMP HOUSE

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
	<b>Painting</b>								
GR 2 - 87	Prepare and apply one coat of approved primer and two coats of approved emulsion paint to internal faces of walls, columns etc.	m <sup>2</sup>	1100						
GR 2 - 88	Prepare and apply one coat of approved primer and two coats of approved weather proof emulsion print to external faces of walls and columns.	m <sup>2</sup>	450						
	<b>Sundries</b>								
	Supplying and laying or fixing following items as shown detail on drawing								
GR 2 - 89	32 mm dia G. I. handrail 1250 mm high as depicted in DRG No. STD/ST/01	m	45						
GR 2 - 90	Allow for forming 5Nr. 750 x 600 mm access manhole opening with covers as depicted in DRG STD/ST/02		Item						
GR 2 - 91	Allow for forming 2 Nr 900 x 900 mm access manhole opening with covers as depicted in DRG. STD / ST / 02		Item						
GR 2 - 92	Allow for construction of 6 Nr. 600 x 600 mm. Air vent opening, concrete side walls, cover slab with stainless steel mesh as depicted in DRG. No. STD / ST / 02		Item						
GR 2 - 93	Allow for supply and install 300 mm wide 3 Nr stainless ladder type 1 - 7650 mm high including RC. platform as depicted in DRG Nr. STD/ST/02		Item						
	Total of Page B - 80 carried to Bill Summary								

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

BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESRVOIR AND PUMP HOUSE

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
GR 2 - 94	Allow for supply and install 300 mm wide 2 Nr stainless ladder type II 5800 mm high including R.C. platform as depicted in drg. Nr STD/ST/02		Item						
GR 2 - 95	Allow for supplying and fixing 300 mm wide 1 Nr alluminium cat ladder 2300 mm high as depicted in drg. Nr STD / ST / 04		Item						
GR 2 - 96	Supplying and laying 300 mm dia. PVC Perforated pipe under drain, embedded in 200 mm thick, 20 mm round pebble layer as depicted in drawing complete	m	190						
GR 2 - 97	Allow for supplying and fixing M. S. platform 1000 mm wide 12075 mm long, 1050 mm high supported on 50 x 75 mm. M.S. channel post at 2000 mm centres, 50 x 100 mm. M. S. channel longitudinal beam, 50 x 100 mm. M. S. channel cross beam at 2000 mm centres and 50 mm thick M. S. grating fixed on top as depicted in drawing No: KRU/GR/C/06 complete.(Hand rail measured separately)		Item						
GR 2 - 98	Allow for construction 1 Nr waste water chamber as depicted in drawings.		Item						
GR 2 - 99	125 mm (Ave) thick concrete grade 35 A, benching laid to fall and cross fall on reservoir base slab reinforced with BRC. A 252 mesh on top layer	m <sup>2</sup>	760						
GR 2 - 100	100 mm (Ave) thick concrete grade 35 A, benching on reservoir roof slab, to slope 1 : 200 and forming valley as shown in drawing reinforced with BRC. A 252 mesh on top layer rate to include for water proof membrane, 200 mm thick, 20 mm round pebble layer as depicted in drawing complete.	m <sup>2</sup>	915						
Total of Page B - 81 carried to Bill Summary									

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 2 - 101	Allow for supply and install 6 Nr 100 mm dia strainer, 100 mm dia. D I. flanged pipes, bends etc. as depicted in drawing Nr. STD/ST/03 complete  <b>Water Proof Membrane and Expansion Joint</b>  Rate to include for supplying and laying or fixing in position damp proof Membrane, water bar, bearing pads, expansion joint as specified in technical specification and as depicted in drawing No. STD/ST/03		Item						
GR 2 - 102	1000 gauge polythene sheet (one layer) under base slab	m <sup>2</sup>	1350						
GR 2 - 103	Expansion joint type I in base slab	m	130						
GR 2 - 104	Expansion joint type II in walls	m	25						
GR 2 - 105	Expansion joint type III between walls & roof slab	m	100						
GR 2 - 106	Expansion joint type IV in roof slab	m	70						
GR 2 - 107	Allow for coating the inner surface of reservoir as per Specification.  <b>Electrical Installation</b> <b>Electrical Installation</b>  Rate to include for all materials (all uPVC conduits and wiring as specified, fitting of approved make & approved by the Engineer) supplied, fixed and complete to the working order as depicted in Drawings and directed by the Engineer.	m <sup>2</sup>	4300						
Total of Page B - 82 carried to Bill Summary									

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
	<b>Cable Mains</b>								
GR 2 - 108	Three phase cable mains (16 sq mm PVC/PVC copper for phases and for Netural ) from *Building services switch on main switch board to 60 A TPN MCB controlling the building services distribution boards (DB's) - vide drawing KMU/GR/E/13.		Item						
GR 2 - 109	Single phase mains(16 sq mm PVC/PVC copper for phase, netural & P.E.) from 60 A RPN MCB to the three distribution boards DB 1, DB2 , &DB 3.		Item						
GR 2 - 110	Single phase distribution boards as in drawings KMU/PS/E01 & E11	Sets	3						
	<b>Sub-circuite wiring (include all wiring accessories, switches, sockets etc:</b>								
GR 2 - 111	Wiring for lighting points	Nr.	36						
GR 2 - 112	Wiring for socket outlets.	Nr.	4						
	<b>Lamp Fittings</b>								
GR 2 - 113	Luminaires, specification type 19.	Nr.	16						
GR 2 - 114	Luminaires, specification type 27.	Nr.	3						
GR 2 - 115	Luminaires, specification type 28.	Nr.	7						
GR 2 - 116	Luminaires, specification type 25 ( emergency lamps).	Nr.	2						
	Total of Page B - 83 carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO. KMU/GR-2 : CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE

GOTHATUWA GROUND RESRVOIR AND PUMP HOUSE

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
GR 2 - 117	Luminaires, specification type 7.	Nr.	1						
GR 2 - 118	Luminaires, specification type 22.	Nr.	7						
GR 2 - 119	Earthing of installation to separate earth electrode	Item	1						
	Site Lighting								
GR 2 - 120	Photoelectric lamp control switches { rating 16 A } .	Nr.	3						
GR 2 - 121	Cabling to lamps as in Drawing KMU/GR/E.01	Item							
GR 2 - 122	Lamp fittings specification type 23 - Mounted on RC posts (include RC posts).	Nr.	12						
GR 2 - 123	Lighting protection as specified, including down runs and earthing.	Item							
	Total of Page B - 84 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/GR-2 SUM**

**CONSTRUCTION OF GROUND RESERVOIR AND PUMP HOUSE**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
GR 2	Page B - 71 of Bill GR 2			
	Page B - 72 of Bill GR 2			
	Page B - 73 of Bill GR 2			
	Page B - 74 of Bill GR 2			
	Page B - 75 of Bill GR 2			
	Page B - 76 of Bill GR 2			
	Page B - 77 of Bill GR 2			
	Page B - 78 of Bill GR 2			
	Page B - 79 of Bill GR 2			
	Page B - 80 of Bill GR 2			
	Page B - 81 of Bill GR 2			
	Page B - 82 of Bill GR 2			
	Page B - 83 of Bill GR 2			
	Page B - 84 of Bill GR 2			
KMU/GR-2	Total of KMU/GR-2 Summary to KMU/GR Grand Summary			

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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 &amp; specials including rubber rings, lubricant, gaskets, bolts &amp; nuts, Denso primer, paste, protection tape and all other associated material required for complete installation.</p> <p><b><u>Inlet to Reservoir ( From Transmission Main)</u></b></p>								
GR 3 - 1	500 mm dia 5500 mm long DI Socket and Spigot Pipe	Nr	2						
GR 3 - 2	500 mm dia 2800 mm long DI P/E Pipe Piece	Nr	1						
GR 3 - 3	500 mm dia DI 11 1/4° Socketted Bend	Nr	1						
GR 3 - 4	500 mm dia 90° Socketted Bend	Nr	1						
GR 3 - 5	500 mm dia 900 mm long DI Flange and P/E Pipe Piece.	Nr	1						
GR 3 - 6	500 - 350 mm dia DI Flange Taper	Nr	2						
GR 3 - 7	350 mm dia 1725 mm long Double Flange DI Pipe Piece with Puddle Flange	Nr	1						
GR 3 - 8	350 x 350 mm dia All Flanged DI Tee.	Nr	2						
	Total of Page B - 86 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 9	350 mm dia Flange Adapter for DI Pipe.	Nr	2						
GR 3 - 10	350 mm dia 2600 mm long DI Flange and P/E Pipe Piece.	Nr	1						
GR 3 - 11	350 mm dia 1000 mm long DI Flange and P/E Pipe Piece.	Nr	1						
GR 3 - 12	500 x 500 mm dia DI All Flange Tee.	Nr	2						
GR 3 - 13	500 x 100 mm dia DI All Flange Tee.	Nr	1						
GR 3 - 14	500 mm dia 500 mm long DI Double Flange Pipe.	Nr	1						
GR 3 - 15	500 mm dia Flange Adapter for DI Pipe.	Nr	2						
GR 3 - 16	500 mm dia 2000 mm long DI Flange and P/E Pipe Piece with Puddle Flange.	Nr	1						
GR 3 - 17	500 mm dia VJ Coupling	Nr	3						
GR 3 - 18	500 mm dia 2500 mm long DI F/PE Pipe Piece with Puddle Flange.	Nr	1						
GR 3 - 19	500 mm dia 2000 mm long DI Flange and P/E Pipe Piece.	Nr	1						
GR 3 - 20	350 mm dia 800 mm long DI Double Flange Pipe Piece.	Nr	1						
GR 3 - 21	350 mm dia DI 90° Flanged Short Radius Bend.	Nr	2						
	Total of Page B - 87 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 22	350 mm dia 4700 mm long DI Double Flange Pipe Piece.	Nr	1						
GR 3 - 23	350 mm dia 600 mm long DI Double Flange Pipe Piece.	Nr	1						
	<b><u>Inlet to Reservoir (Cell No.2)</u></b>								
GR 3 - 24	500 mm dia 1200 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 25	500 mm dia DI 45° Socketted Bend.	Nr	2						
GR 3 - 26	500 mm dia 3000 mm long P/E Pipe Piece.	Nr	1						
GR 3 - 27	500 mm dia 4400 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 28	500 mm dia 5500 mm long DI Socket and Spigot Pipe	Nr	9						
GR 3 - 29	500 mm dia 3225 mm long DI Socket and Spigot Pipe	Nr	1						
GR 3 - 30	500 mm dia DI 90° Socketted Bend	Nr	2						
GR 3 - 31	500 mm dia 3000 mm long DI Socket and Spigot Pipe Piece.	Nr	2						
GR 3 - 32	500 mm dia 3000 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 33	500 mm dia 1800 mm long DI PE Pipe Piece.	Nr	1						
GR 3 - 34	500 mm dia VJ Coupling	Nr	1						
GR 3 - 35	500 mm dia F/PE pipe 1900 long with puddle flange	Nr	1						
	Total of Page B - 88 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 36	500 mm dia 90 deg duckfoot bend	Nr	1						
GR 3 - 37	500 mm dia flange pipe 620 mm long	Nr	1						
GR 3 - 38	500 mm dia flange bell mouth	Nr	1						
	<b><u>Inlet to Reservoir ( Cell No. 1)</u></b>								
GR 3 - 39	500 mm dia 1400 mm long DI PE Pipe Piece.	Nr	1						
GR 3 - 40	500 mm dia 5500mm long DI Socket and Spigot Pipe.	Nr	5						
GR 3 - 41	500mm dia 575mm long DI P/E Pipe Piece	Nr	1						
GR 3 - 42	500 mm dia DI 90° Socketted Bend.	Nr	1						
GR 3 - 43	500 mm dia VJ Coupling.	Nr	1						
GR 3 - 44	500 mm dia F/PE pipe 1300 mm long with puddle flange	Nr	1						
GR 3 - 45	500 mm dia 90 deg duckfoot bend	Nr	1						
GR 3 - 46	500 mm flange pipe 620 mm long	Nr	1						
GR 3 - 47	500 mm flange bell mouth	Nr	1						
	<b><u>Inlet to Pump House</u></b>								
GR 3 - 48	500 mm dia 3200 mm long P/E Pipe Piece.	Nr	1						
	Total of Page B - 89 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 49	500 mm dia 2000 mm long DI Flange and P/E Pipe Piece with Puddle Flange.	Nr	1						
GR 3 - 50	500 mm dia VJ Coupling	Nr	1						
	<b><u>Inlet to Tower (From Pump House)</u></b>								
GR 3 - 51	600 - 450 mm dia DI Socketted Concentric Taper	Nr	1						
GR 3 - 52	450 mm dia 1750 mm long P/E Pipe Piece.	Nr	1						
GR 3 - 53	450 mm dia DI 45° Socketted Bend.	Nr	2						
GR 3 - 54	450 mm dia 2525 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 55	450 mm dia 1750 mm long P/E Pipe Piece.	Nr	1						
GR 3 - 56	450 mm dia VJ Coupling	Nr	1						
	<b><u>Outlet from New Tower</u></b>								
GR 3 - 57	450 mm dia 2000 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 58	450 - 300 mm dia DI Socketted Concentric Taper.	Nr	1						
GR 3 - 59	300 mm dia 1000 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 60	300 mm dia VJ Coupling	Nr	2						
GR 3 - 61	300 mm dia 1000 mm long DI Flange and P/E Pipe Piece with Puddle Flange	Nr	2						
	Total of Page B - 90 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING**

**GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE**

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
GR 3 - 62	300 mm dia Flange Adapter for DI Pipe.	Nr	1						
GR 3 - 63	300 mm dia 600 mm long DI P/E Pipe Piece	Nr	1						
GR 3 - 64	500 - 300 mm dia DI Socketed Concentric Taper.	Nr	1						
GR 3 - 65	500 mm dia 2000 mm long DI PE Pipe Piece.	Nr	1						
	<b>Overflow (From Reservoir)</b>								
GR 3 - 66	400 mm dia Flange Bell Mouth	Nr	2						
GR 3 - 67	400 mm D/F pipe 4000 mm long	Nr	2						
GR 3 - 68	400 mm dia 90 deg Duckfoot Bend	Nr	2						
GR 3 - 69	400 mm dia F/PE pipe 1400 mm long with Puddle Flange	Nr	2						
GR 3 - 70	400 mm dia VJ Coupling	Nr	3						
GR 3 - 71	400 mm dia 4000 mm long Socket and P/E DI Pipe.	Nr	2						
GR 3 - 72	400 mm dia 2400 mm long P/E DI Pipe Piece.	Nr	2						
GR 3 - 73	400 mm dia DI Double Socketted 45° Bend	Nr	4						
GR 3 - 74	400 mm dia 2175 mm long P/E DI Pipe Piece.	Nr	2						
GR 3 - 75	400 mm dia 2840 mm long DI P/E Pipe Piece	Nr	2						
	Total of Page B - 91 Carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 76	400 mm dia DI Double Socketted 90° Bend	Nr	1						
GR 3 - 77	400 mm dia 1700 mm long P/E DI Pipe Piece.	Nr	1						
GR 3 - 78	400 mm dia 2000 mm long DI Socket and P/E Pipe Piece.	Nr	1						
GR 3 - 79	400 x 300 mm dia DI all Socketted Tee.	Nr	3						
GR 3 - 80	400 mm dia 1300 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 81	400 mm dia 5500 mm long DI Socket and P/E Pipe	Nr	3						
GR 3 - 82	400 mm dia 5350 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 83	400 mm dia 4600 mm long DI S/S Pipe Piece.	Nr	1						
GR 3 - 84	400 mm dia 1200 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 85	400 x 400 mm dia DI All Socketted Tee.	Nr	1						
GR 3 - 86	400 mm dia 5000 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 87	400 mm dia 3500 mm long DI and P/E Pipe Piece.	Nr	1						
GR 3 - 88	400 mm dia 800 mm long DI P/E Pipe Piece.	Nr	1						
	<b>Washout (Reservoir)</b>								
GR 3 - 89	300 mm dia Bell Mouth	Nr	2						
	Total of Page B - 92 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 90	300 mm dia 90 deg Flanged Bend	Nr	2						
GR 3 - 91	300 mm dia F/PE pipe 2300 mm long with Puddle Flange	Nr	2						
GR 3 - 92	300 mm dia VJ Coupling	Nr	4						
GR 3 - 93	300 mm dia 700 mm long DI P/E Pipe Piece.	Nr	2						
GR 3 - 94	300 mm dia Flange Adapter for DI Pipe.	Nr	2						
GR 3 - 95	300 mm dia 4700 mm long DI Flanged and P/E Pipe Piece.	Nr	2						
GR 3 - 96	300 mm dia 3000 mm long DI Flange and P/E Pipe Piece with Puddle Flange.	Nr	2						
GR 3 - 97	300 mm dia 3000 mm long DI Double Flange Pipe.	Nr	2						
GR 3 - 98	300 mm dia 1165 mm long DI P/E Pipe Piece.	Nr	2						
	<b>Scour Pipe (From Tower)</b>								
GR 3 - 99	300 mm dia 1500 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 100	300 mm dia DI Double Socketted 90° Bend.	Nr	1						
GR 3 - 101	300 mm dia 500 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 102	300 mm dia DI Double Socketted 45° Bend.	Nr	2						
	Total of Page B - 93 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 103	300 mm dia 1800 mm long DI P/E Pipe Piece	Nr	1						
GR 3 - 104	300 x 150 mm dia DI All Socketted Tee.	Nr	1						
GR 3 - 105	300 mm dia 2475 mm long DI Socket and P/E Pipe Piece.	Nr	1						
GR 3 - 106	300 mm dia 2535 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 107	300 mm dia 5500 mm long DI Socket and P/E Pipe.	Nr	1						
	<b><u>Inlet to Existing Tower</u></b>								
GR 3 - 108	150 mm dia 1900 mm long DI P/E Pipe Piece.	Nr	1						
GR 3 - 109	150 mm DI Double Socketted 22 1/2° Bend.	Nr	1						
GR 3 - 110	150 mm dia 1675 mm long DI Flange P/E Pipe Piece.	Nr	1						
GR 3 - 111	150 mm dia 1960 mm long DI D/F Pipe Piece.	Nr	1						
GR 3 - 112	150 mm dia 890 mm long DI Flanged and P/E Pipe Piece.	Nr	1						
GR 3 - 113	150 mm dia DI Double Flange 45° Bend.	Nr	2						
GR 3 - 114	150 mm dia DI Double Flange 90° Bend.	Nr	1						
GR 3 - 115	150 mm dia VJ Coupling.	Nr	1						
GR 3 - 116	150 mm dia 1975 mm long DI Flange and P/E Pipe Piece with Puddle Flange.	Nr	1						
	Total of Page B - 94 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 117	150 mm dia 4000 mm long DI Double Flange Pipe.	Nr	1						
GR 3 - 118	150 mm dia Flange Adapter for DI Pipe.	Nr	4						
GR 3 - 119	150mm dia 1825mm long DI P/E Pipe Piece (Length to Suit Site)	Nr	1						
GR 3 - 120	150mm dia Gate Valve	Nr	1						
GR 3 - 121	150mm dia 500mm long F/PE Pipe Piece	Nr	1						
GR 3 - 122	150mm dia Check Valve	Nr	1						
	<b>Scour Pipe (From Existing Tower)</b>								
GR 3 - 123	150 mm dia 4700 mm long DI Socketted and P/E Pipe	Nr	1						
GR 3 - 124	150 mm dia 5500 mm long DI Socketted and P/E Pipe	Nr	1						
	<b>PVC Scour Pipe (From Inlet Chamber to Outlet Chamber)</b>								
GR 3 - 125	160 mm dia PVC Type 400 scour Pipe	m	48						
GR 3 - 126	160 mm dia PVC 90° Bend Type 1000	Nr	1						
	<b>Valves</b>								
GR 3 - 127	350 mm dia Butterfly valve.	Nr	3						
GR 3 - 128	300 mm dia Gate valve	Nr	2						
	Total of Page B - 95 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-3 : SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 129	500 mm dia Butterfly valve	Nr	2						
GR 3 - 130	350 mm dia Flow Meter	Nr	1						
GR 3 - 131	300 mm dia Flow Meter	Nr	1						
GR 3 - 132	100 mm dia Double Orifice Air Valve.	Nr	1						
GR 3 - 133	500 mm dia Motor Operated Flow Control Valve.	Nr	1						
Total of Page B - 96 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/GR-3 SUM**

**SUPPLY AND DELIVERY OF MATERIALS FOR YARD PIPING**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
GR 3	Page B - 86 of Bill GR 3			
	Page B - 87 of Bill GR 3			
	Page B - 88 of Bill GR 3			
	Page B - 89 of Bill GR 3			
	Page B - 90 of Bill GR 3			
	Page B - 91 of Bill GR 3			
	Page B - 92 of Bill GR 3			
	Page B - 93 of Bill GR 3			
	Page B - 94 of Bill GR 3			
	Page B - 95 of Bill GR 3			
	Page B - 96 of Bill GR 3			
KMU/GR-3	Total of KMU/GR-3 Summary to KMU/GR Grand Summary			

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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.								
	<b><u>Inlet to Reservoir ( From Transmission Main)</u></b>								
GR 4 - 1	500 mm dia 5500 mm long DI Socket and Spigot Pipe	Nr	2						
GR 4 - 2	500 mm dia 2800 mm long DI P/E Pipe Piece	Nr	1						
GR 4 - 3	500 mm dia DI 11 1/4° Socketted Bend	Nr	1						
GR 4 - 4	500 mm dia DI 90° Socketted Bend	Nr	1						
GR 4 - 5	500 mm dia 900 mm long DI Flange and P/E Pipe Piece.	Nr	1						
GR 4 - 6	500 - 350 mm dia DI Flange Taper	Nr	2						
GR 4 - 7	350 mm dia 1725 mm long Double Flange DI Pipe Piece with Puddle Flange	Nr	1						
GR 4 - 8	350 x 350 mm dia All Flange DI Tee.	Nr	2						
GR 4 - 9	350 mm dia, Flange Adapter for DI pipe.	Nr	2						
	Total of Page B - 98 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 4 - 10	350 mm dia. 2600 mm long DI Flange and P/E Pipe Piece.	Nr	1						
GR 4 - 11	350 mm dia 1000mm long DI Flange and P/E Pipe Piece.	Nr	1						
GR 4 - 12	500 x 500 mm dia. DI All Flange Tee.	Nr	2						
GR 4 - 13	500 x 100 mm dia. DI All Flange Tee.	Nr	1						
GR 4 - 14	500 mm dia. 500 mm long DI Double Flange pipe.	Nr	1						
GR 4 - 15	500 mm dia. Flange Adapter for DI pipe.	Nr	2						
GR 4 - 16	500 mm dia. 2000 mm long DI Flange and P/E Pipe Piece with Puddle Flange.	Nr	1						
GR 4 - 17	500 mm dia. VJ Coupling	Nr	3						
GR 4 - 18	500 mm dia. 2500 mm long DI F/PE Pipe Piece with Puddle Flange.	Nr	1						
GR 4 - 19	500 mm dia 2000 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 20	350 mm dia. 880 mm long DI Double Flange Pipe Piece.	Nr	1						
GR 4 - 21	350 mm dia DI 90° Flanged Short Radius Bend.	Nr	2						
GR 4 - 22	350 mm dia 4700 mm long DI Double Flange Pipe Piece.	Nr	1						
GR 4 - 23	350 mm dia 600 mm long DI Double Flange Pipe Piece.	Nr	1						
	Total of Page B - 99 Carried to Bill Summary								



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

**BILL OF QUANTITIES**

**BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS**

**GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE**

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
	<b><u>Inlet to Reservoir (Cell No.2)</u></b>								
GR 4 - 24	500 mm dia. 1200 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 25	500 mm dia DI 45° Socketted Bend.	Nr	2						
GR 4 - 26	500 mm dia 3000 mm long P/E Pipe Piece.	Nr	1						
GR 4 - 27	500 mm dia. 4400 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 28	500 mm dia. 5500 mm long DI Socket and Spigot pipe	Nr	9						
GR 4 - 29	500 mm dia. 3225 mm long DI Socket and Spigot pipe	Nr	1						
GR 4 - 30	500 mm dia. DI 90° Socketted Bend	Nr	2						
GR 4 - 31	500 mm dia. 3000 mm long DI Socket and Spigot Pipe Piece.	Nr	2						
GR 4 - 32	500 mm dia. 3000 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 33	500 mm dia 1800 mm long DI PE Pipe Piece.	Nr	1						
GR 4 - 34	500 mm dia. VJ Coupling	Nr	1						
GR 3 - 35	500 mm dia F/PE pipe 1900 long with puddle flange	Nr	1						
GR 3 - 36	500 mm dia 90 deg duckfoot bend	Nr	1						
GR 3 - 37	500 mm dia flange pipe 620 mm long	Nr	1						
	Total of Page B - 100 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 38	500 mm dia flange bell mouth <u>Inlet to Reservoir ( Cell No.1)</u>	Nr	1						
GR 4 - 39	500 mm dia 1400 mm long DI PE Pipe Piece.	Nr	1						
GR 4 - 40	500 mm dia. 5500mm long DI Socket and Spigot pipe.	Nr	5						
GR 4 - 41	500 mm dia. 575mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 42	500 mm dia. DI 90° Socketted Bend.	Nr	1						
GR 4 - 43	500 mm dia. VJ Coupling.	Nr	1						
GR 3 - 44	500 mm dia F/PE pipe 1300 mm long with puddle flange	Nr	1						
GR 3 - 45	500 mm dia 90 deg duckfoot bend	Nr	1						
GR 3 - 46	500 mm flange pipe 620 mm long	Nr	1						
GR 3 - 47	500 mm flange bell mouth <u>Inlet to Pump House</u>	Nr	1						
GR 4 - 48	500 mm dia 3200 mm long PE Pipe Piece.	Nr	1						
GR 4 - 49	500 mm dia 2000 mm long Flange and PE Pipe Piece with Puddle Flange.	Nr	1						
GR 4 - 50	500 mm dia. VJ Coupling	Nr	1						
	Total of Page B - 101 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
	<b><u>Inlet to Tower (From Pump House)</u></b>								
GR 4 - 51	600 - 450 mm dia. DI Socketted Concentric Taper	Nr	1						
GR 4 - 52	450 mm dia. 1750 mm long P/E Pipe Piece.	Nr	1						
GR 4 - 53	450 mm dia DI 45° Socketted Bend.	Nr	2						
GR 4 - 54	450 mm dia. 2525 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 55	450 mm dia. 1750 mm long P/E Pipe Piece.	Nr	1						
GR 4 - 56	450 mm dia. VJ Coupling	Nr	1						
	<b><u>Outlet from New Tower</u></b>								
GR 4 - 57	450 mm dia. 2000 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 58	450 - 300 mm dia. DI Socketted Concentric Taper.	Nr	1						
GR 4 - 59	300 mm dia. 1000 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 60	300 mm dia. VJ Coupling	Nr	2						
GR 4 - 61	300 mm dia. 1000 mm long DI Flange and P/E Pipe Piece with Puddle Flange	Nr	2						
GR 4 - 62	300 mm dia. Flange Adapter for DI pipe.	Nr	1						
GR 4 - 63	300 mm dia. 600 mm long DI P/E Pipe Piece	Nr	1						
	Total of Page B - 102 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 4 - 64	500 -300 mm dia DI Socketted Concentric Taper.	Nr	1						
GR 4 - 65	500 mm dia 2000 mm long DI PE Pipe Piece.	Nr	1						
	<b><u>Overflow (From Reservoir)</u></b>								
GR 3 - 66	400 mm dia Flange Bell Mouth	Nr	2						
GR 3 - 67	400 mm D/F pipe 4000 mm long	Nr	2						
GR 3 - 68	400 mm dia 90 deg Duckfoot Bend	Nr	2						
GR 3 - 69	400 mm dia F/PE pipe 1400 mm long with Puddle Flange	Nr	2						
GR 3 - 70	400 mm dia VJ Coupling	Nr	3						
GR 3 - 71	400 mm dia. 4000 mm long Socket and P/E DI pipe.	Nr	2						
GR 3 - 72	400 mm dia. 2400 mm long P/E DI Pipe Piece.	Nr	2						
GR 3 - 73	400 mm dia. DI Double Socketted 45° Bend	Nr	4						
GR 3 - 74	400 mm dia. 2175 mm long P/E DI Pipe Piece.	Nr	2						
GR 3 - 75	400 mm dia. 2840 mm long P/E DI Pipe Piece.	Nr	2						
GR 3 - 76	400 mm dia DI Double Socketted 90° Bend	Nr	1						
GR 3 - 77	400 mm dia. 1700 mm long. P/E DI Pipe Piece.	Nr	1						
	Total of Page B - 103 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS**

**GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE**

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
GR 4 - 78	400 mm dia. 2000 mm long DI Socket and P/E Pipe Piece.	Nr	1						
GR 4 - 79	400 x 300 mm dia. DI All Socketted tee.	Nr	3						
GR 4 - 80	400 mm dia. 1300 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 81	400 mm dia 5500 mm long DI Socket and P/E pipe	Nr	3						
GR 4 - 82	400 mm dia. 5350 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 83	400 mm dia. 4600 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 84	400 mm dia. 1200 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 85	400 x 400 mm dia. DI All Socketted tee.	Nr	1						
GR 4 - 86	400 mm dia. 5000 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 87	400 mm dia. 3500 mm long DI and P/E pipe piece.	Nr	1						
GR 4 - 88	400 mm dia. 800 mm long DI P/E Pipe Piece.	Nr	1						
	<u>Washout (Reservoir)</u>								
GR 3 - 89	300 mm dia Bell Mouth	Nr	2						
GR 3 - 90	300 mm dia 90 deg Flanged Bend	Nr	2						
GR 3 - 91	300 mm dia F/PE pipe 2300 mm long with Puddle Flange	Nr	2						
	<i>Total of Page B - 104 Carried to Bill Summary</i>								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 3 - 92	300 mm dia VJ Coupling	Nr	4						
GR 3 - 93	300 mm dia. 700 mm long DI P/E Pipe Piece.	Nr	2						
GR 3 - 94	300 mm dia. Flange Adapter for DI pipe.	Nr	2						
GR 3 - 95	300 mm dia. 4700 mm long DI Flanged and P/E Pipe Piece.	Nr	2						
GR 3 - 96	300 mm dia. 3000 mm long DI Flange and P/E Pipe Piece with Puddle Flange.	Nr	2						
GR 3 - 97	300 mm dia. 3000 mm long DI Double Flange pipe.	Nr	2						
GR 3 - 98	300 mm dia. 1165 mm long DI P/E Pipe Piece.	Nr	2						
	<b>Scour Pipe (From Tower)</b>								
GR 4 - 99	300 mm dia. 1500 mm long. DI P/E Pipe Piece.	Nr	1						
GR 4 - 100	300 mm dia DI Double Socketted 90° Bend.	Nr	1						
GR 4 - 101	300 mm dia. 500 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 102	300 mm dia DI Double Socketted 45° Bend.	Nr	2						
GR 4 - 103	300 mm dia. 1800 mm long. DI P/E Pipe Piece	Nr	1						
GR 4 - 104	300 x 150 mm dia DI All Socketted tee.	Nr	1						
	Total of Page B - 105 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS**

**GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE**

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
GR 4 - 105	300 mm dia 2475 mm long DI Socket and P/E pipe piece.	Nr	1						
GR 4 - 106	300 mm dia. 2535 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 107	300 mm dia 5500 mm long. DI Socket and P/E pipe.	Nr	1						
	<b><u>Inlet to Existing Tower</u></b>								
GR 4 - 108	150 mm dia. 1900 mm long DI P/E Pipe Piece.	Nr	1						
GR 4 - 109	150 mm DI Double Socketted 22 1/2 deg Bend.	Nr	1						
GR 4 - 110	150 mm dia. 1675 mm long DI Flange P/E Pipe Piece.	Nr	1						
GR 4 - 111	150 mm dia. 1960 mm long DI D/F Pipe Piece.	Nr	1						
GR 4 - 112	150 mm dia. 890 mm long DI Flanged and P/E Pipe Piece.	Nr	1						
GR 4 - 113	150 mm dia. DI Double Flange 45° Bend.	Nr	2						
GR 4 - 114	150 mm dia. DI Double Flange 90° Bend.	Nr	1						
GR 4 - 115	150 mm dia. VJ Coupling.	Nr	1						
GR 4 - 116	150 mm dia. 1975 mm long DI Flange and P/E Pipe Piece with Puddle Flange.	Nr	1						
GR 4 - 117	150 mm dia. 4000 mm long DI Double Flange pipe.	Nr	1						
	Total of Page B - 106 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 4 - 118	150 mm dia. Flange Adapter for DI pipe.	Nr	4						
GR 4 - 119	150mm dia 1825mm long DI P/E Pipe Piece (Length to Suit Site)	Nr	1						
GR 4 - 120	150mm dia Gate Valve	Nr	1						
GR 4 - 121	150mm dia 500mm long F/PE Pipe Piece	Nr	1						
GR 4 - 122	150mm dia Check Valve	Nr	1						
	<b><u>Scour Pipe (From Existing Tower)</u></b>								
GR 4 - 123	150 mm dia 4700 mm long DI Socketted and P/E Pipe	Nr	1						
GR 4 - 124	150 mm dia 5500 mm long DI Socketted and P/E Pipe	Nr	1						
	<b><u>PVC Scour Pipe (From Inlet Chamber to Outlet Chamber)</u></b>								
GR 4 - 125	160 mm dia PVC Type 400 scour Pipe	m	48						
GR 4 - 126	160 mm dia PVC 90° Bend	Nr	1						
	<b><u>Valves</u></b>								
GR 4 - 127	350 mm dia. Butterfly Valve.	Nr	3						
GR 4 - 128	300 mm dia. Gate Valve	Nr	2						
GR 4 - 129	500 mm dia. Butterfly Valve	Nr	2						
	Total of Page B - 107 Carried to Bill Summary								



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

## BILL OF QUANTITIES

BILL NO : KMU/GR-4 : LAYING AND INSTALLATION OF YARD PIPING MATERIALS

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR 4 - 130	350 mm dia Flow Meter	Nr	1						
GR 4 - 131	300 mm dia Flow Meter	Nr	1						
GR 4 - 132	100 mm dia. Double Orifice Air Valve.	Nr	1						
GR 4 - 133	500 mm dia. Motor Operated Flow Control Valve.	Nr	1						
Total of Page B - 108 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/GR-4 SUM**

**LAYING AND INSTALLATION OF MATERIALS FOR YARD PIPING**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
GR 4	Page B - 98 of Bill GR 4			
	Page B - 99 of Bill GR 4			
	Page B - 100 of Bill GR 4			
	Page B - 101 of Bill GR 4			
	Page B - 102 of Bill GR 4			
	Page B - 103 of Bill GR 4			
	Page B - 104 of Bill GR 4			
	Page B - 105 of Bill GR 4			
	Page B - 106 of Bill GR 4			
	Page B - 107 of Bill GR 4			
	Page B - 108 of Bill GR 4			
KMU/GR-4	Total of KMU/GR-4 Summary to KMU/GR Grand Summary			

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-5 : SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.	Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.
	<b><u>Pumps</u></b>								
GR 5 - 1	Horizontal split casing double suction centrifugal pumping sets with a capacity of 18 m <sup>3</sup> /min at a total head of 30m, complete with motor, couplings & coupling guard mounted on a common base frame complete with accessories for installation.	Nr.	2						
GR 5 - 2	Submersible sump pumps with a capacity of 150 l/min at 10 m head, complete with discharge elbows, submersible motor cable, lifting chain, guide bars and other accessories.	Nr.	2						
	<b><u>Spares</u></b>								
GR 5 - 3	Spare parts recommended by the manufacturers for operation of item No. GR7-01 for ten years inclusive of minimum spare parts listed under specification.	Item	1						
GR 5 - 4	Spare parts recommended by the manufacturers for operation of item No. GR7-02 for ten years inclusive of minimum spare parts listed under specification.	Item	1						
	<b><u>Valves</u></b>								
GR 5 - 5	500 mm dia. PN 16 Double Flanged hand wheel operated CI Butterfly valve for pump suction line complete with valve position indicator and provision for fixing limit switches.	Nr.	3						
GR 5 - 6	500 mm dia. PN 16 Double Flanged CI Non Return Valve with suitable counter weight.	Nr.	2						
GR 5 - 7	500mm dia. D/F PN 16 Motor Operated Butterfly Valve	Nr.	2						
	Total of Page B - 110 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-5 : SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.	Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.
GR 5 - 8	500 mm PN 16 , hand wheel operated CI Gate valve D/F.	Nr.	1						
GR 5 - 9	600 mm dia. PN 16, D/F, hand wheel operated CI butterfly valve.	Nr.	1						
GR 5 - 10	100 mm dia. Double orifice air valve	Nr.	1						
GR 5 - 11	80 mm dia. PN 16 , hand wheel operated CI gate valve D/F complete for wash out pipe	Nr.	1						
GR 5 - 12	80 mm dia. PN 16 , hand wheel operated CI gate valve D/F for sump pump discharge line	Nr.	2						
GR 5 - 13	80 mm dia. PN 16, Double Flanged CI Non Return Valve for sump discharge line.	Nr.	2						
	<b><u>Pipe Work within the Pump House</u></b>								
	<b><u>Suction Pipes (DI)</u></b>								
GR 5 - 14	500 mm dia. DI D/F Bell mouth	Nr.	3						
GR 5 - 15	500 mm dia DI D/F 90 deg. Bend	Nr.	3						
GR 5 - 16	500 mm dia. 1200 mm long DI D/F pipe piece with puddle collar.	Nr.	3						
	<b><u>Suction Pipes (Steel)</u></b>								
GR 5 - 17	500 mm dia. Flanged Adaptor	Nr.	3						
	Total of Page B - 111 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-5 : SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.	Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.
GR 5 - 18	500mm x 350 mm tapered eccentric F/PE Pipe piece	Nr.	2						
GR 5 - 19	350 mm dia. Harnessed Coupling.	Nr.	2						
GR 5 - 20	250 mm dia. Harnessed Coupling.	Nr.	2						
GR 5 - 21	250 mm x 500 mm dia flanged /PE Taper & pipe piece up to Non Return Valve.	Nr.	2						
GR 5 - 22	500 mm dia. F/PE pipe piece 1200 mm long	Nr.	2						
GR 5 - 23	500mm dia Flanged Adapter	Nr.	2						
GR 5 - 24	500 mm dia. Blank flange	Nr.	2						
	<b><u>Common Delivery Line ( Steel)</u></b>								
GR 5 - 25	500 mm dia. D/F 90 deg. Bend	Nr.	2						
GR 5 - 26	500 mm dia. D/F pipe piece, 2500 mm long	Nr.	1						
GR 5 - 27	500 mm dia. F/PE pipe piece 1200 mm long	Nr.	1						
GR 5 - 28	500 mm dia. Flanged Adopter	Nr.	1						
GR 5 - 29	500 mm x 600 mm F/PE taper welded to 600 mm short pipe piece with length up to the Tee.	Nr.	1						
GR 5 - 30	600 mm x 600 mm x 500 mm PE/F Reducing Tee with 500 mm flanged branch.	Nr.	3						
	Total of Page B - 112 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-5 : SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.	Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.
GR 5 - 31	600 mm dia. 1100 mm long pipe piece	Nr.	6						
GR 5 - 32	600 mm dia harness coupling for steel pipes	Nr.	3						
GR 5 - 33	600 mm dia equal Tee PE with flanged branch	Nr.	1						
GR 5 - 34	600 mm dia blank flange	Nr.	1						
GR 5 - 35	600 mm dia D/F 90 deg bend	Nr.	2						
GR 5 - 36	600 mm dia F/PE pipe piece 2400 mm long	Nr.	1						
GR 5 - 37	600 mm Flange Adapter	Nr.	1						
	<b><u>Sump Pump Delivery Line</u></b>								
GR 5 - 38	80 mm dia. medium duty GI Pipe complete with fittings, brackets and supports etc. from delivery flange of each sump pump upto discharging drain as indicated on Drg.No.M/01	Item	1						
	<b><u>Washout Pipe</u></b>								
GR 5 - 39	80 mm dia medium duty GI Pipe line from washout tapping point on the common delivery line upto sump as indicated on Drg. No.M/01. Rate to include all fittings, supports and brackets etc.	Item	1						
GR 5 - 40	25 mm dia medium duty GI pipes fittings & valves for manual air release and hose connection valve as per drawing.	Item	1						
	Total of Page B - 113 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-5 : SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.	Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.
	<b>Ventilation Fans</b>								
GR 5 - 41	Electrical motor driven exhaust fan of capacity 90 m <sup>3</sup> /min for operating floor. Rate to include for necessary accessories.	Nr.	2						
GR 5 - 42	Electrical motor driven ventilator fan for pump floor with capacity 70 m <sup>3</sup> /min, complete with accessories.	Nr.	2						
GR 5 - 43	450mm x 450 mm GI fabricated air ducting complete with necessary brackets, bends, mesh at outlet ends etc. as per Drg.No.M/05.	Sets	2						
	<b>Overhead Crane</b>								
GR 5 - 44	Overhead bridge crane, with minimum rated lifting capacity of 3 T complete with trolley, manually operated chain block and manual chain operator for traversing.	Item	1						
Total of Page B - 114 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/GR-5 SUM**

**SUPPLY AND DELIVERY OF MECHANICAL EQUIPMENT**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
GR 5	Page B - 110 of Bill GR 5			
	Page B - 111 of Bill GR 5			
	Page B - 112 of Bill GR 5			
	Page B - 113 of Bill GR 5			
	Page B - 114 of Bill GR 5			
KMU/GR-5	Total of KMU/GR-5 Summary to KMU/GR Grand Summary			



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

## BILL OF QUANTITIES

BILL NO. KMU/GR-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
<b>GR-6.1</b>	<b><u>Low Voltage Panels</u></b>								
	<b><u>Supply &amp; Deliver to Contractor's Stores</u></b>								
GR 6.1 - 1	Incoming Panels	Panel	1						
GR 6.1 - 2	Motor Control Panel	Panel	2						
GR 6.1 - 3	Ancillary Panel	Panel	1						
GR 6.1 - 4	Fan Switch Panel	Panel	1						
GR 6.1 - 5	Spare Parts and Accessories	Lot	1						
	Total of Page B - 116 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
<b>GR-6.2</b>	<b>Battery System</b>								
	<u>Supply and Deliver to Contractor's Stores</u>								
GR 6.2 - 1	Battery Charger Panel with Batteries	Panel	1						
GR 6.2 - 2	DC Panel (110V/24V)	Panel	1						
GR 6.2 - 3	Spare Parts and Accessories	Lot	1						
	Total of Page B - 117 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR-6.3	<u>Local Control Panels</u> <u>Supply and Deliver to Contractor's Stores</u>								
GR 6.3 - 1	Sump Pump Switch Board	Panel	1						
Total of Page B- 118 Carried to Bill Summary									

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
GR-6.4	<b><u>Instrumentation</u></b> <b><u>Supply and Deliver to Contractor's Stores</u></b>								
GR 6.4 - 1	Instrumentation Panel	Panel	1						
GR 6.4 - 2	Electro Magnetic Flow Measuring Devices (350 mm)	Set	1						
GR 6.4 - 3	Electro Magnetic Flow Measuring Devices (500 mm)	Set	1						
GR 6.4 - 4	Immersion Type Level Measuring Devices	Set	1						
GR 6.4 - 5	Electrode Type Level Measuring Devices	Set	3						
GR 6.4 - 6	Pressure Type Level Measuring Devices	Set	2						
GR 6.4 - 7	Pressure Measuring Devices for pump suction	Set	2						
GR 6.4 - 8	Flow Control Position Indicator	Set	1						
GR 6.4 - 9	Accessories and Spare Parts	Lot	1						
	Total of Page B - 119 Carried to Bill Summary								

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

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
<b>GR-6.5</b>	<b><u>Miscellaneous Materials</u></b>								
	<b><u>Supply and Deliver to Contractor's Stores</u></b>								
GR 6.5 - 1	Wire and Cables <i>"Wires and Cables" including the incoming cables (from CEB terminals from DG terminals) to the main incoming panel and all cabling from incoming panel to final equipment.</i>	Lot	1						
GR 6.5 - 2	Grounding System	Lot	1						
GR 6.5 - 3	Required Other Materials (Cable Rack, Conduit Pipe etc.)	Lot	1						
	Total of Page B - 120 Carried to Bill Summary								

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

**BILL OF QUANTITIES**

**BILL NO. KMU/GR-6 : SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT**

**GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE**

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
<b>GR-6.6</b>	<b><u>Diesel Generator Set</u></b>								
	<b><u>Supply and Deliver to Contractor's Stores</u></b>								
GR 6.6 - 1	Diesal Generator Set 375 KVA 0.8 pf 400/230 V complete with exhaust system, fuel tank and piping, starting battery and rectifier as specified .	Lot	1						
GR 6.6 - 2	Spares for above.	Lot	1						
Total of Page B - 121 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/GR-6 SUM

SUPPLY AND DELIVERY OF ELECTRICAL EQUIPMENT

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
GR 6	All Items in Page B - 116 in Bill No. KMU/GR - 6.1			
	All Items in Page B - 117 in Bill No. KMU/GR - 6.2			
	All Items in Page B - 118 in Bill No. KMU/GR - 6.3			
	All Items in Page B - 119 in Bill No. KMU/GR - 6.4			
	All Items in Page B - 120 in Bill No. KMU/GR - 6.5			
	All Items in Page B - 121 in Bill No. KMU/GR - 6.6			
KMU/GR-6	Total of KMU/GR-6 Summary to KMU/GR Grand Summary			

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

## BILL OF QUANTITIES

BILL NO : KMU/GR-7 : INSTALLATION OF MECHANICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR AND PUMP HOUSE

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE			TOTAL AMOUNT		
				Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.	Local Component Rs.	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs.
GR 7 - 1	Installation of pumps and accessories supplied under BOQ Item No. KMU/GR-7-01.	Set	2						
GR 7 - 2	Installation of pumps and accessories supplied under BOQ Item No. KMU/GR-7-02.	Set	2						
GR 7 - 3	Installation of pipes, fittings and valves supplied under BOQ Item No. KMU/GR-7-05 to KMU/GR-7-40.	Lot	1						
GR 7 - 4	Installation of Ventilation Fans supplied under BOQ Item No. KMU/GR-7-41.	Nr	2						
GR 7 - 5	Installation of Ventilation Fans and GI fabricated air ducting supplied under BOQ Item No. KMU/GR-7-42 and KMU/GR-7-43.	Nr	2						
GR 7 - 6	Installation of Overhead Crane supplied under BOQ Item No. KMU/GR-7-44.	Nr	1						
GR 7 - 7	Testing, Commissioning and set to work of all the equipment supplied and installed under Bill No. KMU/GR-7 and KMU/GR-9	Item	Sum						
Total of Page B - 123 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/GR-7 SUM**

**INSTALLATION OF MECHANICAL EQUIPMENT**

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
GR 7	Page B - 123 of Bill GR 7			
KMU/GR-7	Total of KMU/GR-7 Summary to KMU/GR Grand Summary			

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

## BILL OF QUANTITIES

BILL NO. KMU/GR-8 : INSTALLATION OF ELECTRICAL EQUIPMENT

GOTHATUWA GROUND RESERVOIR &amp; PUMP HOUSE

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
	<b><u>Installation of Electrical Equipment</u></b> <b>Erect, make all connections, test and set to work the following</b>								
GR 8 - 1	All items in Bill No. KMU/GR-6 in Section GR-6.1	L.S							
GR 8 - 2	All items in Bill No. KMU/GR-6 in Section GR-6.2	L.S							
GR 8 - 3	All items in Bill No. KMU/GR-6 in Section GR-6.3	L.S							
GR 8 - 4	All items in Bill No. KMU/GR-6 in Section GR-6.4	L.S							
GR 8 - 5	All items in Bill No. KMU/GR-6 in Section GR-6.5	L.S							
GR 8 - 6	All items in Bill No. KMU/GR-6 in Section GR-6.6	L.S							
	Total of Page B - 125 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/GR-8 SUM

INSTALLATION OF ELECTRICAL EQUIPMENT

ITEM No.	PAGE TOTAL	TOTAL AMOUNT		
		Local Component Rs./cts	Foreign Component Yen	Custom Duty, Cess, GST, NSL, Excise Duty etc. Rs./cts
GR 8	Page B - 125 of Bill GR 8			
KMU/GR-8	Total of KMU/GR-8 Summary to KMU/GR Grand Summary			