

BILL OF QUANTITY FOR SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF THREE NOS OF PELICANS AT CHINTHAMPALAN A GARDINAR MAWATHA (IN FRONT OF POLICE STATION) / RECLEMATION ROAD (NEAR PORT ENTRANCE) / SANGARAJA MAWATHA (IN FRONT OF NO.367 GARDEN)

DESCRIPTION	CIVIL WORKS (BILL 1) SL Rs.	SIGNAL WORKS (BILL 2) SL Rs.	SUB TOTAL (SLRs.)
PRELIMINARIES			
THREE NOS OF PELICANS (CHINTHAMPALAN A GARDINAR MAWATHA / RECLEMATION ROAD/ SANGARAJA MW)			
Sub Total I			
Add 10% contingensies			
Sub total 2			
Add 8% VAT			
Tender Amount			

Tendered Amount in words Rs		
//************************************		
***************************************		
Signature of Contractor	, "= — <u>"</u> , - e *	
151.411-11.011.111.111.111.111.111.11		
Date		

## BILL OF QUANTITY FOR SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF THREE NOS OF PELICANS AT CHINTHAMPALAN A GARDINAR MAWATHA (IN FRONT OF POLICE STATION) / RECLEMATION ROAD (NEAR PORT ENTRANCE) / SANGARAJA MAWATHA (IN FRONT OF NO.367 GARDEN)

tem	Pay item	Description of Item	Unit	Qty.	Unit Cost Rs.	Amount Rs.
-		Bill No. 1 Civil Works				
1	1.00(1)	Site clearing, Removal of existing paving tiles / tar mac and handed over of reusable tiles to campbell park depot and removal of surplus material	Item	Allow		3.5
2	1.00(2)	Remove and transport of reusable street furniture, Guardrails, existing signal light columns, Signal heads etc	Item	Allow		
3	2,00(1)	Excavation for signal column foundation for column with horizontal arm	m³	6		
4	2.00(2)	Excavation for signal column foundation for column without horizontal arm	m <sup>3</sup>	0		
4	2.00(3)	Approved ABC (Aggregate Base Course) filling with compaction.	m³	6		
5	2.00(4)	Removal of excavated surplus material of column foundation	m <sup>3</sup>	42.0		
6	3.00(1)	Cement concrete 1 : 2 : 4 (3/4") in signal column bases with horizontal arm.	m³	6.30		
8	3.00(2)	Cement concrete 1 : 2 : 4 (3/4") in signal column bases without horizontal arm.	m <sup>3</sup>	ō	44	
7,	3,00(3)	Form work for signal column bases with horizontal arm	m <sup>2</sup>	25.0		
10	3:00(4)	Form work for signal column bases without horizontal arm	m <sup>2</sup>	0		
8	4.00(1)	10mm dia, mild steel reinforcements for signal column bases	Kg	50.0		i vi
9	4.00(1)	10mm dia. tor steel reinforcements for signal column bases	Kg	162.0		
10	5.00(1)	Supply and Lay 110mm PVC duct (type 1000)	Lm	74		
11	5.00(2)	Construction of manholes	No	6		
12	5.00(3)	Construction of controller bases	No	3		
13	6.00(1)	Traffic management and safety	Month	ī		
14		Submission of As built Drawings	Item	1		
		Bill No. 1 Total Carried over to Summary				

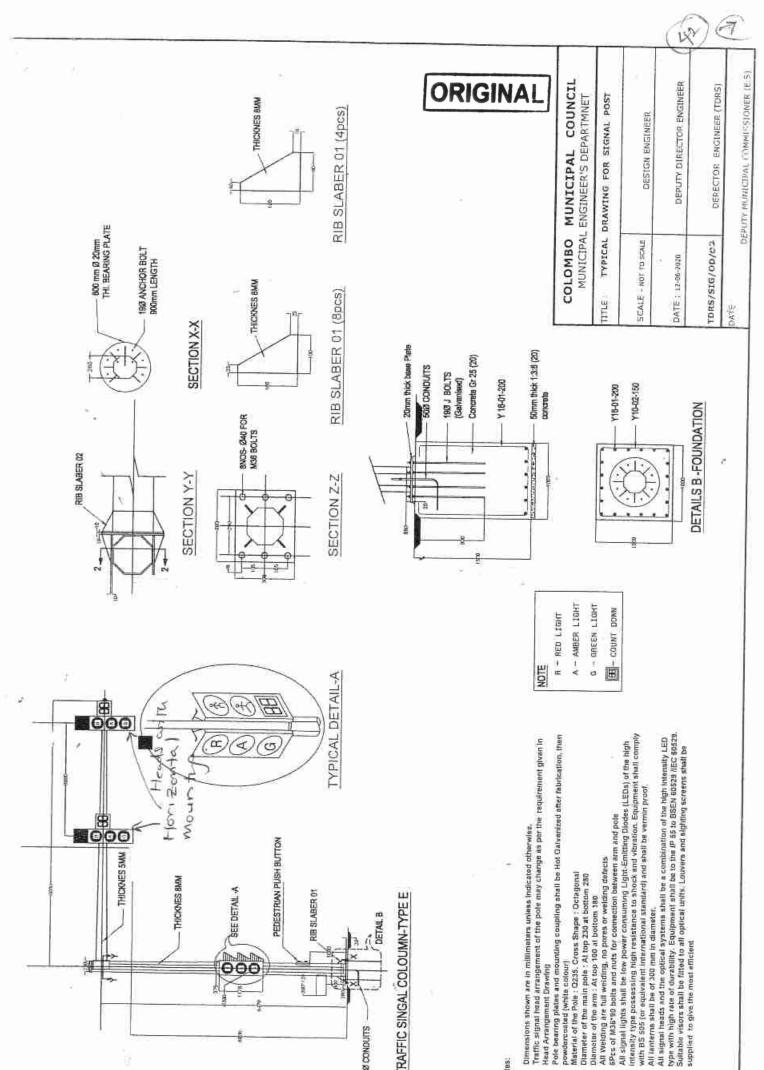
	Bill No. 2 Signal Works	Unit	Qty	Rate	Amount
Ĭ)	Supply, fabrication and installation of traffic signal columns of clear height 6000mm for horizontal mounting (6000mm from ground level ) for three aspects signal heads with electrical terminating unit. Horizontal arm is 7500mm. Columns to be fabricated with horizontal arm as per detail drawing. Drg. No. TDRS / SIG / OD / 03. Rate should include connecting mechanism of two columns by welding or flange mechanism system.	Nos.	4		
2	Supply, fabrication and installation of traffic signal columns of clear height 6000mm for horizontal mounting (6000mm from ground level ) for three aspects signal heads with electrical terminating unit. Horizontal arm is 6000mm. Columns to be fabricated with horizontal arm as per detail drawing. Drg. No. TDRS / SIG / OD / 02. Rate should include connecting mechanism of two columns by welding or flange mechanism system.	Nico	2		
3	Supply and installation of three aspects (R/A/G) or (R/A/GA) LED traffic signal heads including green arrow of 300 mm optic dia. prepared for horizontal mounting with fixing brackets.  (Arm size is 250mm to 200mm)	Nos.	12	£0. **	
4	Supply and installation of three aspects (R/A/G) or (R/A/GA) LED traffic signal heads of 300 mm optic dia. prepared for vertical mounting with fixing brackets. Vertical column size is 200mm.	Nos.	6		-74.4
3	Supply and installation of pedestrian two aspects (RM/GM) LED signal heads of 300mm optic dia. prepared for vertical mounting with fixing brackets for pedestrian crossings. This should contain digital Countdown heads with at least the digit size of 16 cm and audible syren system. The rate should include pedestrian waiting time shown in the same panel with different colour upon the pressing of push button.  ( Vertical column size is 200mm )	Nos.	6		
6	Supply and installation of Pedestrian push Button units with 'WAIT' indicator.	Nos.	6		
7	Supply and installation of 'Waiting Pedestrian' detector cameras. Specifications mentioned in the 2.3 of the tender specification.	Nos.	6		

30



8	Supply & Installation of vehicle count down system as per specification 2.1 count down Heads should be framed with a Target board of 0.5mm Aluminum board with durable coating. Sample of the target board should be approved before fixing.		6	
9	Installation of Microprocessor based road traffic control system Controller as per 3.11 of specification with capacity to control the pelican crossing and should be able to link traffic signals installed in future.		3	
10	Supply and installation of Armored 1.5mm 2 copper cable.  4 core 8 core	101	350 165	
11	Supply and Install LED Luminaire to light up the pedestrian crossing including wiring and controls as per the specifications.	Item	F. G. F. S.	
12	Commissioning of the pelican crossings.	Item	Allow	
	Bill No. 2 B Total Carried over to Summary			

Section -8
DRAWINGS



6Pcs of M35'90 holts and nuts for connection between arm and pole

supplied to give the most efficient

2 5 ř

Diameter of the arm : At top 100 at bottom 180 All Welding are full weiding, no pores or welding defects Material of the Pole: Q235, Cross Shape: Octagonal Diameter of the main pole; At top 230 at bottom 250

powdercoated (white colour)

Dimensions shown are in millimaters unless indicated otherwise.

Notes:

Moun

THICKNES BAM

PEDESTRIAN PUSH BUTTON

RIB SLABER 01

TRAFFIC SINGAL COLOUMN-TYPE E

SOO CONDUITS

SEE DETAIL 'A

000

8000

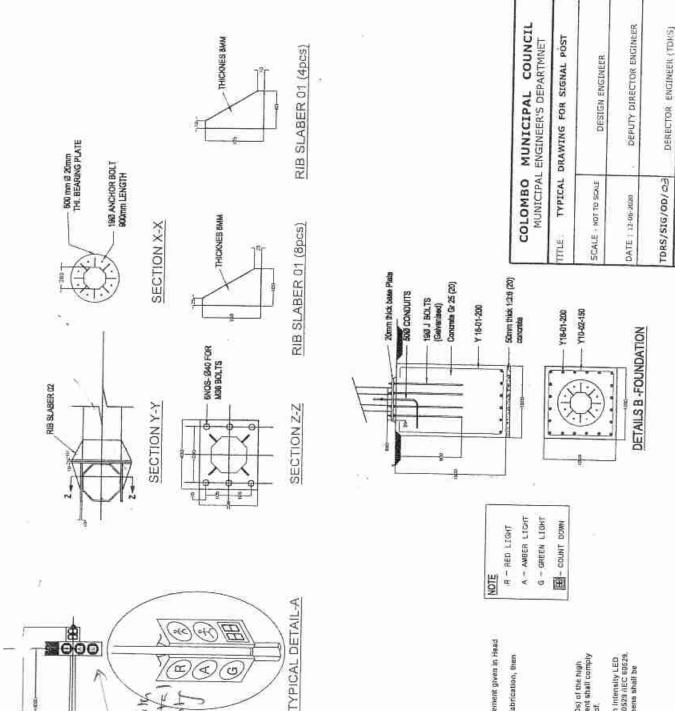
THICKNES 5MM





DEPLITY MUNICIPAL COMMISSIONER (ES)

DATE



Heads only Harizant Monny

THICKNES BAM

THICKNES SMM

PEDESTRIAN PUSH BUTTON

RIB SLABER D1

TRAFFIC SINGAL COLOUMN-TYPE F

DETAIL B

**SOM CONDUITS** 

SEE DETAIL A

900

Notes

Traffic signal head arrangement of the pole may change as per the requirement given in Head Dimensions shown are in millimeters unless indicated otherwise.

Arrangement Drawing Pole bearing plates and mounting coupling shall be Hot Galvanized after fabrication, then powdercoated (white colour)

Material of the Pole; Q236, Cross Shape; Octagonal

Diameter of the main pole: At top 230 at bottom 280

Diameter of the arm : At top 100 at bottom 180

All Welding are full welding, no pores or welding defects 8Pcs of M36 90 buts and nuts for connection between arm and pole. All signal lights shall be tow power consuming Light-Emitting Diodes (LEDs) of the high intensity type possessing high resistance to shock and vibrition. Equipment shall comply with BS 505 (or equivalent international standard) and shall be vermin proof.

All lanterns shall be of 300 nun in diameter.
All signal heads and the optical systems shall be a combination of the high internally LED type with high rate of oursability. Equipment shall be to the iP 55 to 85EN 80529 AIEC 60529. Sultable visors shall be fitted to all optical units. Louvers and sighting screens shall be 2.5

supplied to give the most afficient



# SECTION 9 STANDARD FORMS (BID)





#### Note:

It is the responsibility of bidders to comply with all the requirements given in the bidding document. Failure to non compliance with any of the may be a reason for rejection of the bid.

#### Notes on Standard Forms:

- Bidders shall submit the completed form of bid security/Bid Securing Declaration as appropriate in compliance with the requirements of the bidding documents.
- Bidders should not complete the Form of Agreement at the time of preparation of bids.
- The successful bidder will be required to sign the Form of Agreement, after the award of contract.
- Any corrections or modifications to the accepted bid resulting from arithmetic corrections, acceptable deviations, or quantity variations in accordance with the requirements of the bidding documents should be incorporated into the Agreement.
- The Form of Performance security, Form of Advance Payment Security and Form of Retention Money Guarantee should not be completed by the bidders at the time of submission of bids.
- The successful bidder will be required to provide these securities in compliance with the requirements herein or as acceptable to the Employer.

## (38)

### FORM OF BID SECURITY

<b>7</b>			·····	insert issuin
	and address of issuing bran	ii	-	-
Beneficiary :M	unicipal Commissioner, (	Colombo Municipal Co	uncil, Town I	łall, Colombo
Date :	[insert (b	y issuing agency) date]	ig.	
BID GUARAN number]	ITEE No:		- insert (by	issuing agency
issuing agency) is bid dated Bid") for impro-	informed that	inafter called "the Bido ort (by issuing agency)	der") has subm date] (hereina (i	nitted to you its ofter called "the insert name of
orthermore, we	e understand that, accordi	ng to your conditions,	Bids must be	supported by a
agency] hereby is amount ofaccompanied by	of the Bidder, we	oay you any sum or su [insert amount in figur upon receipt by us of ng that the Bidder is i	ms not exceed es]your first dem	ling in total an and in writing
b) Does not a  (hereinafte c) Having bee bid validity	rawn its Bid during the per accept the correction of err er "the ITB");or en notified of the acceptant (, (i) fails or refuses to ex- furnish the Performance Se	ce of its Bid by the En	the instruction the instruction the instruction the instruction of the	the period of
of the Contract significant of the Bidder: or (b) if the	all expire: (a) if the Bidder gned by the Bidder and o e Bidder is not the success formance security, otherwi	of the Performance Sec ful bidder, upon the ear	curity issued t lier of the succ	o you by the cessful bidder
Consequently, any office on or before	demand for payment und that date.	der this Guarantee mu	st be received	by us at the

[ signature(s) and name(s) of authorized representative(s)]

SECTION 10
Other documents