

BILL OF QUANTITIES

PROJECT: MALDIVES NATIONAL UNIVERSITY

**Faculty of Hospitality and Tourism Studies
Building & Training Hotel**

ELECTRICAL WORKS

PROJECT: MNU, FHTS Buiding & Training Hotel**ELECTRICAL WORKS****SUMMARY OF BILLS OF QUANTITIES**

SL.NO	BILL NAME	AMOUNT (MRF)
1)	TOTAL OF BILL NO. 01 (PRELIMINARIES)	-
2)	TOTAL OF BILL NO. 02 (FHTS BUILDING)	-
3)	TOTAL OF BILL NO. 03 (TRAINING HOTEL)	-
GRAND TOTAL		-

**Bill Totals and Grand Total is inclusive of 6% GST.*

SL. NO	DESCRIPTION	QTY	UNIT	LABOUR RATE	MATERIAL RATE	LABOUR AMOUNT	MATERIAL AMOUNT	TOTAL AMOUNT
	Bill No: 01 PRELIMINARIES							
1.1	<u>General Notes</u>							
1)	<u>Abbreviations</u> m - meter sqmm - square millimeter mm - millimeter MCCB - Moulded Case Circuit Breaker MCB - Main Circuit Breaker P - Pole ELCB - Earth Leakage Circuit Breaker DB - Distribution Box ELR - Earth Leakage Relays OCR - Over Current Relay ZCT - Zero Phase Current Transformer CT - Current Transformer kWh - kiloWatt Hour TPN - Triple Pole and Neutral MDB - Main Distribution Box C - Core Cu - Copper PVC - Polyvinyl Chloride RYB - Red Yellow Blue							
1.2	<u>Site Management Costs</u> Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone,fax,hoardings, Tools & Mechinaries rentals, Transportation charges for materials, Labors and similar.							
1)		1.00	item	-	-	-	-	-
1.3	<u>Sign Board</u>							
1)	Allow for sign board	1.00	no	-	-	-	-	-
1.4	<u>Clean - up</u>							
1)	Allow for clean - up of completed works and site upon completion.	1.00	item	-	-	-	-	-
TOTAL OF BILL NO. 01 (PRELIMINARIES) (CARRIED OVER TO THE GENERAL SUMMARY)							Excluding GST	-
							Including GST	-

SL. NO	DESCRIPTION	QTY	UNIT	LABOUR RATE	MATERIAL RATE	LABOUR AMOUNT	MATERIAL AMOUNT	TOTAL AMOUNT
	Bill No: 02 <u>FHTS BUILDING</u>							
2.1	<u>GENERAL</u> (a) Rates shall include for: Installation of electrical fixtures, power points, circuit breakers, cabling, conduit, switches, DB boxes, electrical protection, BUSBARS, panels and MDBs.							
2.2	<u>ELECTRICAL FIXTURES</u>							
	Lights	1,265.00	item			-	-	-
	Fans	258.00	item			-	-	-
	Exhaust Fans	38.00	item			-	-	-
2.3	<u>POWER POINTS</u>							
	13A Single Socket	155.00	item			-	-	-
	13A Double Socket	635.00	item			-	-	-
	15A Socket	189.00	item			-	-	-
2.4	<u>CIRCUIT BREAKERS</u> (Electric Panel, MDB, DB, SDB - Internal Breakers)							
	MCCB 3P 250A With Shunt Trip	2.00	item			-	-	-
	MCCB 3P 160A With Shunt Trip	3.00	item			-	-	-
	MCCB 3P 160A	3.00	item			-	-	-
	MCCB 3P 125A With Shunt Trip	6.00	item			-	-	-
	MCCB 3P 125A	8.00	item			-	-	-
	MCCB 3P 100A With Shunt Trip	14.00	item			-	-	-
	MCCB 3P 100A	14.00	item			-	-	-
	MCB 4P 63A	3.00	item			-	-	-
	MCB 3P 63A	61.00	item			-	-	-
	MCB 4P 40A	2.00	item			-	-	-
	MCB 3P 40A	15.00	item			-	-	-
	MCB 3P 32A	12.00	item			-	-	-
	MCB 3P 20A	3.00	item			-	-	-
	MCB 2P 40A	186.00	item			-	-	-
	MCB 2P 32A	4.00	item			-	-	-
	MCB 2P 20A	3.00	item			-	-	-
	MCB 1P 16A	257.00	item			-	-	-
	MCB 1P 10A	787.00	item			-	-	-
	MCB 1P 6A	369.00	item			-	-	-
	ELCB 4P 63A	3.00	item			-	-	-
	ELCB 4P 40A	42.00	item			-	-	-
	ELCB 2P 40A	214.00	item			-	-	-
2.5	<u>CONDUIT</u>							
	Conduit 20mm	20,467.50	item			-	-	-
2.6	<u>SWITCHES</u>							
	Switch Modules (1 gang)	82.00	item			-	-	-
	Switch Modules (2 gang)	39.00	item			-	-	-
	Switch Modules (3 gang)	73.00	item			-	-	-
	Switch Modules (4 gang)	220.00	item			-	-	-
	Weatherproof Switch - Lock Type (2 gang)	1.00	item			-	-	-
	Switch Modules (4 gang 2 way)	1.00	item			-	-	-
	Fan dimmer	258.00	item			-	-	-

SL. NO	DESCRIPTION	QTY	UNIT	LABOUR RATE	MATERIAL RATE	LABOUR AMOUNT	MATERIAL AMOUNT	TOTAL AMOUNT
2.7	<u>DISTRIBUTION BOXES</u> (Completed as per given drawing)							
	12 way DB Box	6.00	item			-	-	-
	24 way DB Box	60.00	item			-	-	-
	36 way DB Box	24.00	item			-	-	-
	48 way DB Box	5.00	item			-	-	-
	54 way DB Box	1.00	item			-	-	-
	72 way DB Box	2.00	item			-	-	-
2.8	<u>MAIN DISTRIBUTION BOX (MDB) & PANELS</u> (Completed as per the given drawing)							
	MDB Box	23.00	item			-	-	-
	Panel	2.00	item			-	-	-
2.9	<u>CABLING</u>							
	1.5 sqmm Red Cable - 100m roll	150.00	item			-	-	-
	1.5 sqmm Yellow Cable - 100m roll	150.00	item			-	-	-
	1.5 sqmm Blue Cable - 100m roll	10.00	item			-	-	-
	1.5 sqmm Black Cable - 100m roll	150.00	item			-	-	-
	1.5 sqmm Green Cable - 100m roll	150.00	item			-	-	-
	2.5 sqmm Red Cable - 100m roll	350.00	item			-	-	-
	2.5 sqmm Black Cable - 100m roll	350.00	item			-	-	-
	2.5 sqmm Green Cable - 100m roll	350.00	item			-	-	-
	10 Sq.mm , 2C/Cu/PVC/PVC Cable	3,500.00	m			-	-	-
	10 Sq.mm , 4C/Cu/PVC/PVC Cable	1,000.00	m			-	-	-
	16 Sq.mm , 4C/Cu/PVC/PVC Cable	2,000.00	m			-	-	-
	25 Sq.mm , 4C/Cu/PVC/PVC Cable	500.00	m			-	-	-
	50 Sq.mm , 4C/Cu/PVC/PVC Cable	1,000.00	m			-	-	-
	70 Sq.mm , 4C/Cu/PVC/PVC Cable	500.00	m			-	-	-
	150 Sq.mm , 4C/Cu/PVC/PVC Cable	250.00	m			-	-	-
	240 Sq.mm , 4C/Cu/PVC/PVC Cable	250.00	m			-	-	-
TOTAL OF BILL NO. 02 (FHTS BUILDING) (CARRIED OVER TO THE GENERAL SUMMARY)							Excluding GST	-
							Including GST	-
	<u>Bill No: 03</u> <u>TRAINING HOTEL</u>							
3.1	<u>GENERAL</u> (a) Rates shall include for: Installation of electrical fixtures, power points, circuit breakers, cabling, conduit, switches, DB boxes, electrical protection, BUSBARS, panels and MDBs.							
3.2	<u>ELECTRICAL FIXTURES</u>							
	Lights	702.00	item			-	-	-
	Fans	29.00	item			-	-	-
	Exhaust Fans	38.00	item			-	-	-
	Calling Bell	28.00	item			-	-	-
3.3	<u>POWER POINTS</u>							
	13A Single Socket	140.00	item			-	-	-
	13A Double Socket	224.00	item			-	-	-
	15A Socket	132.00	item			-	-	-
3.4	<u>CIRCUIT BREAKERS</u> (Electric Panel, MDB, DB, SDB - Internal Breakers)							
	MCCB 3P 250A With Shunt Trip	1.00	item			-	-	-
	MCCB 3P 160A With Shunt Trip	1.00	item			-	-	-
	MCCB 3P 160A	1.00	item			-	-	-

SL. NO	DESCRIPTION	QTY	UNIT	LABOUR RATE	MATERIAL RATE	LABOUR AMOUNT	MATERIAL AMOUNT	TOTAL AMOUNT
	MCCB 3P 125A With Shunt Trip	1.00	item			-	-	-
	MCCB 3P 125A	1.00	item			-	-	-
	MCCB 3P 100A With Shunt Trip	6.00	item			-	-	-
	MCCB 3P 100A	7.00	item			-	-	-
	MCB 3P 63A	4.00	item			-	-	-
	MCB 3P 40A	11.00	item			-	-	-
	MCB 4P 40A	3.00	item			-	-	-
	MCB 3P 20A	2.00	item			-	-	-
	MCB 2P 40A	82.00	item			-	-	-
	MCB 2P 32A	1.00	item			-	-	-
	MCB 1P 16A	111.00	item			-	-	-
	MCB 1P 10A	318.00	item			-	-	-
	MCB 1P 6A	186.00	item			-	-	-
	ELCB 4P 40A	3.00	item			-	-	-
	ELCB 2P 40A	101.00	item			-	-	-
3.5	<u>CONDUIT</u>							
	Conduit	16,445.00	item			-	-	-
3.6	<u>SWITCHES</u>							
	Switch Modules (1 gang)	40.00	item			-	-	-
	Switch Modules (2 gang)	34.00	item			-	-	-
	Switch Modules (3 gang)	20.00	item			-	-	-
	Switch Modules (4 gang)	112.00	item			-	-	-
	Switch Modules (3 gang 2 way)	26.00	item			-	-	-
	Switch Modules (4 gang 2 way)	2.00	item			-	-	-
	Fan dimmer	29.00	item			-	-	-
	Bell Switch	28.00	item			-	-	-
3.7	<u>DISTRIBUTION BOXES</u>							
	12 way DB Box	2.00	item			-	-	-
	24 way DB Box	30.00	item			-	-	-
	36 way DB Box	9.00	item			-	-	-
	54 way DB Box	1.00	item			-	-	-
	72 way DB Box	2.00	item			-	-	-
3.8	<u>MDB & PANELS</u>							
	(Completed as per drawings given)							
	MDB Box	8.00	item			-	-	-
	Panel	1.00	item			-	-	-
3.9	<u>CABLING</u>							
	1.5 sqmm Red Cable	60.00	item			-	-	-
	1.5 sqmm Yellow Cable	60.00	item			-	-	-
	1.5 sqmm Blue Cable	10.00	item			-	-	-
	1.5 sqmm Black Cable	60.00	item			-	-	-
	1.5 sqmm Green Cable	60.00	item			-	-	-
	2.5 sqmm Red Cable	110.00	item			-	-	-
	2.5 sqmm Black Cable	110.00	item			-	-	-
	2.5 sqmm Green Cable	110.00	item			-	-	-
	10 Sq.mm , 2C/Cu/PVC/PVC Cable	1,200.00	m			-	-	-
	10 Sq.mm , 4C/Cu/PVC/PVC Cable	200.00	m			-	-	-
	50 Sq.mm , 4C/Cu/PVC/PVC Cable	500.00	m			-	-	-
	70 Sq.mm , 4C/Cu/PVC/PVC Cable	120.00	m			-	-	-
	150 Sq.mm , 4C/Cu/PVC/PVC Cable	50.00	m			-	-	-
	240 Sq.mm , 4C/Cu/PVC/PVC Cable	50.00	m			-	-	-
TOTAL OF BILL NO. 03 (TRAINING HOTEL)							Excluding GST	-
(CARRIED OVER TO THE GENERAL SUMMARY)							Including GST	-