



NOTES:-

- THESE DRAWINGS ARE PRELIMINARY AND ARE FOR TENDERING PURPOSES ONLY.
- CONTRACTOR SHALL CARRY OUT DETAILED SITE SURVEY AND ENGINEERING / STUDY TO EVALUATE AND PROPOSE THE EXTENT OF REPLACEMENT / MODIFICATION REQUIRED IN THE EXISTING DISTRIBUTION NETWORK. THIS IS SUBJECT TO REVIEW AND APPROVAL BY THE EMPLOYER DURING THE ENGINEERING PHASE OF THE PROJECT.

LEGEND:-

SYMBOL	DESCRIPTION	QUANTITY
	PROPOSED 25sq.mm Cu/PVC/XLPE/PVC Cable	160m
	PROPOSED 35sq.mm Cu/PVC/XLPE/PVC Cable	80m
	PROPOSED 70sq.mm Cu/PVC/XLPE/PVC Cable	150m

	PURPOSE OF SUBMISSION	REV	AUTHORISED BY	DATE	DRAWING TITLE CONCEPTUAL SCHEMATIC DIAGRAM FOR LV DISTRIBUTION BOARD OF POWER HOUSE (B04-FINEY)		DESIGN : ESM	SCALE : N.T.S
	INITIAL DOCUMENTS	A	GKH	28/03/16			DRAWN : DAI	DRW NO. : J431-GOPA-008-GR-E-S-0001-RevC
	FIRST REVISION	B	GKH	25/05/16	PROJECT PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	CLIENT: GOVERNMENT OF THE REPUBLIC OF MALDIVES	LICENCE NO:	ISLAND NAME : FINEY
	SECOND REVISION	C	GKH	19/06/16			DATE: : 19JUN16	PAGE : 1/2

FINEY-PROPOSED PV FEEDER

From	To	No. of Runs	Cable Size (sq.mm)	Length (M)	Cable Current Capacity (A)	Cable Current Capacity After Deration (0.6) (A)	Power (kW)	Current (A)	Cable Loading (%)	Voltage (%) at DB Main Bus	Total Voltage Drop (%) in Cable Section	% Voltage Drop upto Distribution Boards	% Voltage Drop Acceptable (Less Than 2%)	Lossess (%)	Remarks
COUNCIL-PV	Main LV Distribution Board Power House	1	4C x 35	80	180	108	19.97	28.64	26.50	100.63	0.63	0.63	YES	0.88%	Proposed 4C x 35 sq.mm LV Cable
SCHOOL	Main LV Distribution Board in Power House	1	4C x 70	150	265	159	37.86	54.03	34.00	101.14	1.14	1.14	YES		Proposed 4C x 70 sq.mm LV Cable
HEALTH CENTRE-PV	Main LV Distribution Board Power House	1	4C x 25	160	150	90	10.40	14.88	16.50	100.91	0.91	0.91	YES		Proposed 4C x 25 sq.mm LV Cable

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