



NOTES:-

1. THESE DRAWINGS ARE PRELIMINARY AND ARE FOR TENDERING PURPOSES ONLY.

2. 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.

SYMBOL	DESCRIPTION	QUANTITY
-----	PROPOSED 50sq.mm Cu/XLPE/SWA/PVC/PVC Cable	590m
-----	PROPOSED 70sq.mm Cu/XLPE/SWA/PVC/PVC Cable	140m

	PURPOSE OF SUBMISSION	REV	AUTHORISED BY	DATE				
	INITIAL DOCUMENTS	A	GKH	28/03/16	DRAWING TITLE CONCEPTUAL SCHEMATIC DIAGRAM FOR LV DISTRIBUTION BOARD OF POWER HOUSE (B15–VAIKARADHOO)		DESIGN : ESM	SCALE : N.T.S
	FIRST REVISION	B	GKH	25/05/16			DRAWN : DAI/MBA	DRW NO. : J431–GOPA–000–GR–E–S–0001–RevD
	SECOND REVISION	C	GKH	19/09/16	PROJECT PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	CLIENT: GOVERNMENT OF THE REPUBLIC OF MALDIVES	LICENCE NO:	ISLAND NAME : VAIKARADHOO
	THIRD REVISION	D	SWK	04/08/16			DATE: : 04AUG16	PAGE : 1/2

**VAIKARADHOO-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 in Power House	1	4C x 50	250	215	129	10.82	15.49	12.00	100.79	0.79	0.79	YES	1.05%	Proposed 4C x 50 sq.mm LV Cable
SCHOOL	Main LV Distribution Board in Power House	1	4C x 70	140	265	159	32.65	46.70	29.40	100.92	0.92	0.92	YES		Proposed 4C x 70 sq.mm LV Cable
HEALTH CENTRE-PV	Main LV Distribution Board in Power House	1	4C x 50	340	215	129	13.52	19.26	14.90	101.34	1.34	1.34	YES		Proposed 4C x 50 sq.mm LV Cable

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