



LEGEND:-

SYMBOL	DESCRIPTION	QUANTITY
	PROPOSED 120sq.mm Cu/PVC/XLPE/PVC Cable	100m

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.

PURPOSE OF SUBMISSION	REV	AUTHORISED BY	DATE	DRAWING TITLE	DESIGN : ESM	SCALE : N.T.S
FIRST REVISION	A	GKH	17/04/16	CONCEPTUAL SCHEMATIC DIAGRAM FOR LV DISTRIBUTION BOARD OF PORT SUBSTATION (B12-KULHUDHUFFUSHI)	DRAWN : DAI	DRW NO. : J431-GOPA-032-GR-E-S-0005-RevA
				PROJECT	CLIENT:	ISLAND NAME : KULHUDHUFFUSHI
				PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	GOVERNMENT OF THE REPUBLIC OF MALDIVES	LICENCE NO:
						DATE: : 17APR16
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KULHUDHUFFUSHI-PORT-SUBSTATION-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 5%)	Losses (%)	Remarks
KULHUDHUFFUSHI-PORT-PV	KULHUDHUFFUSHI-PORT-SUBSTATION	1	4C x 120	100	360	216	59.9	85.86	39.8	100.69	0.69	0.69	YES	0.67%	Proposed 4C x 120 sq.mm LVCable

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