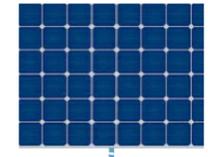
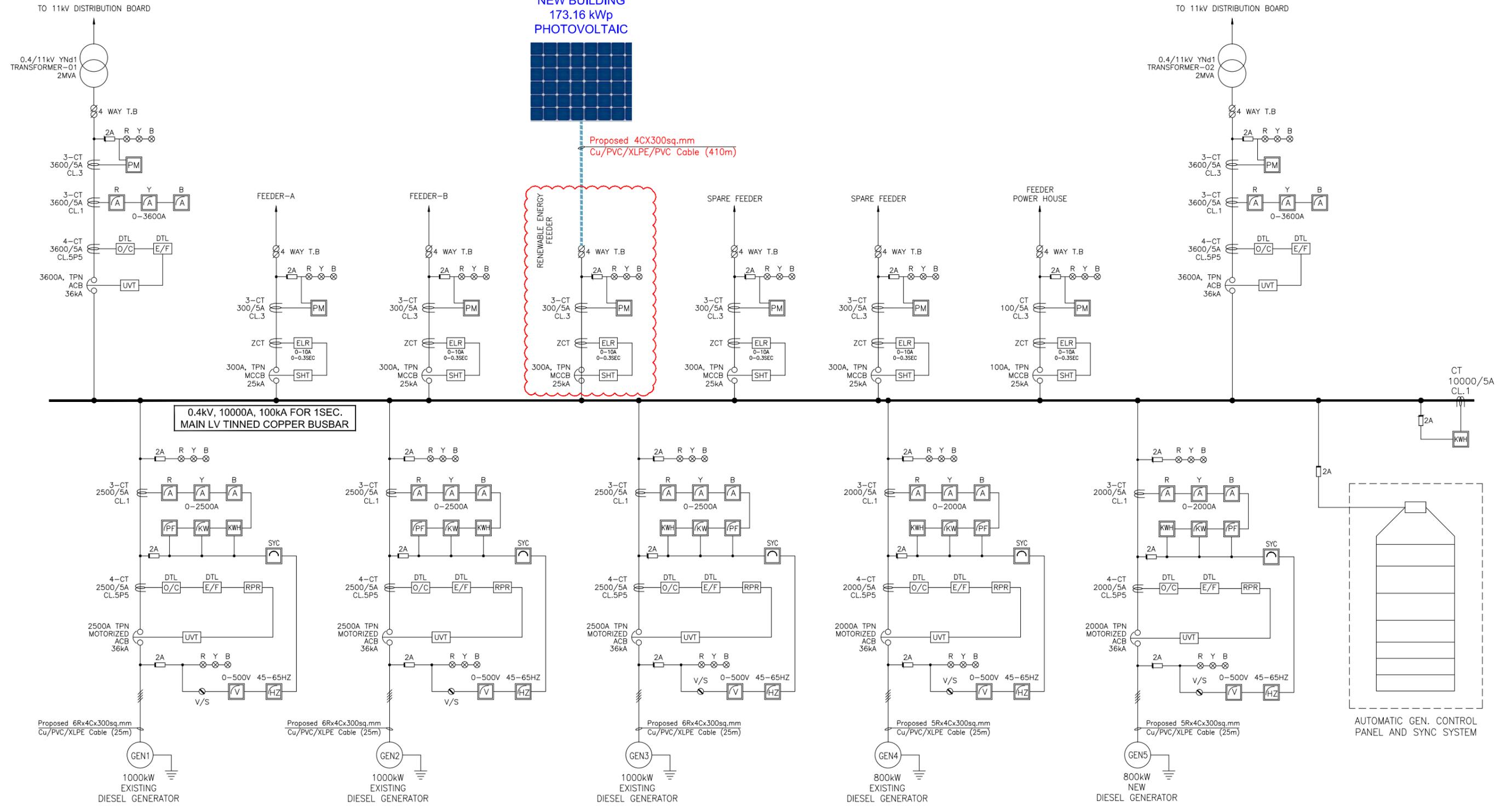
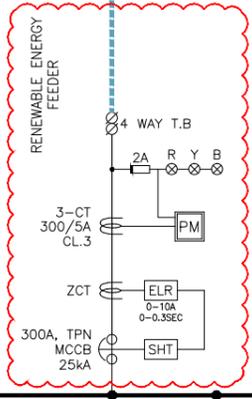


AFEEFUDIN SCHOOL  
NEW BUILDING  
173.16 kWp  
PHOTOVOLTAIC



Proposed 4Cx300sq.mm  
Cu/PVC/XLPE/PVC Cable (410m)



**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.

**LEGEND:-**

SYMBOL	DESCRIPTION	QUANTITY
-----	PROPOSED 300sq.mm Cu/PVC/XLPE/PVC Cable	410m

PURPOSE OF SUBMISSION	REV	AUTHORISED BY	DATE	DRAWING TITLE	DESIGN : ESM	SCALE : N.T.S
INITIAL DOCUMENTS	A	GKH	28/03/16	CONCEPTUAL SCHEMATIC DIAGRAM FOR LV DISTRIBUTION BOARD OF POWER HOUSE (B12-KULHUDHUFFUSHI)	DRAWN : DAI	DRW NO. : J431-GOPA-032-GR-E-S-0001-RevC
FIRST REVISION	B	GKH	25/05/16	PROJECT	LICENCE NO:	ISLAND NAME : KULHUDHUFFUSHI
SECOND REVISION	C	GKH	19/06/16	PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	CLIENT: GOVERNMENT OF THE REPUBLIC OF MALDIVES	DATE: : 19JUN16
						PAGE : 1/2

KULHUDHUFFUSHI-POWER HOUSE-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
AFEEFUDIN SCHOOL-PV	KULHUDHUFFUSHI-POWER HOUSE	1	4C x 300	410	590	354	139	195.5	55.2	102.62	2.62	2.62	YES	2.59%	Proposed 4C x 300 sq.mm LV Cable

	PURPOSE OF SUBMISSION	REV	AUTHORISED BY	DATE	DRAWING TITLE CONCEPTUAL SCHEMATIC DIAGRAM FOR LV DISTRIBUTION BOARD OF POWER HOUSE (B12-KULHUDHUFFUSHI)	DESIGN : ESM	SCALE : N.T.S
	INITIAL DOCUMENTS	A	GKH	28/03/16		DRAWN : DAI	DRW NO. : J431-GOPA-032-GR-E-S-0001-RevC
	FIRST REVISION	B	GKH	25/05/16	PROJECT PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	LICENCE NO:	ISLAND NAME : KULHUDHUFFUSHI
	SECOND REVISION	C	GKH	19/06/16		CLIENT: GOVERNMENT OF THE REPUBLIC OF MALDIVES	DATE: : 19JUN16