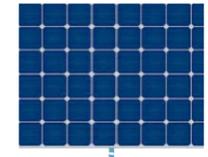
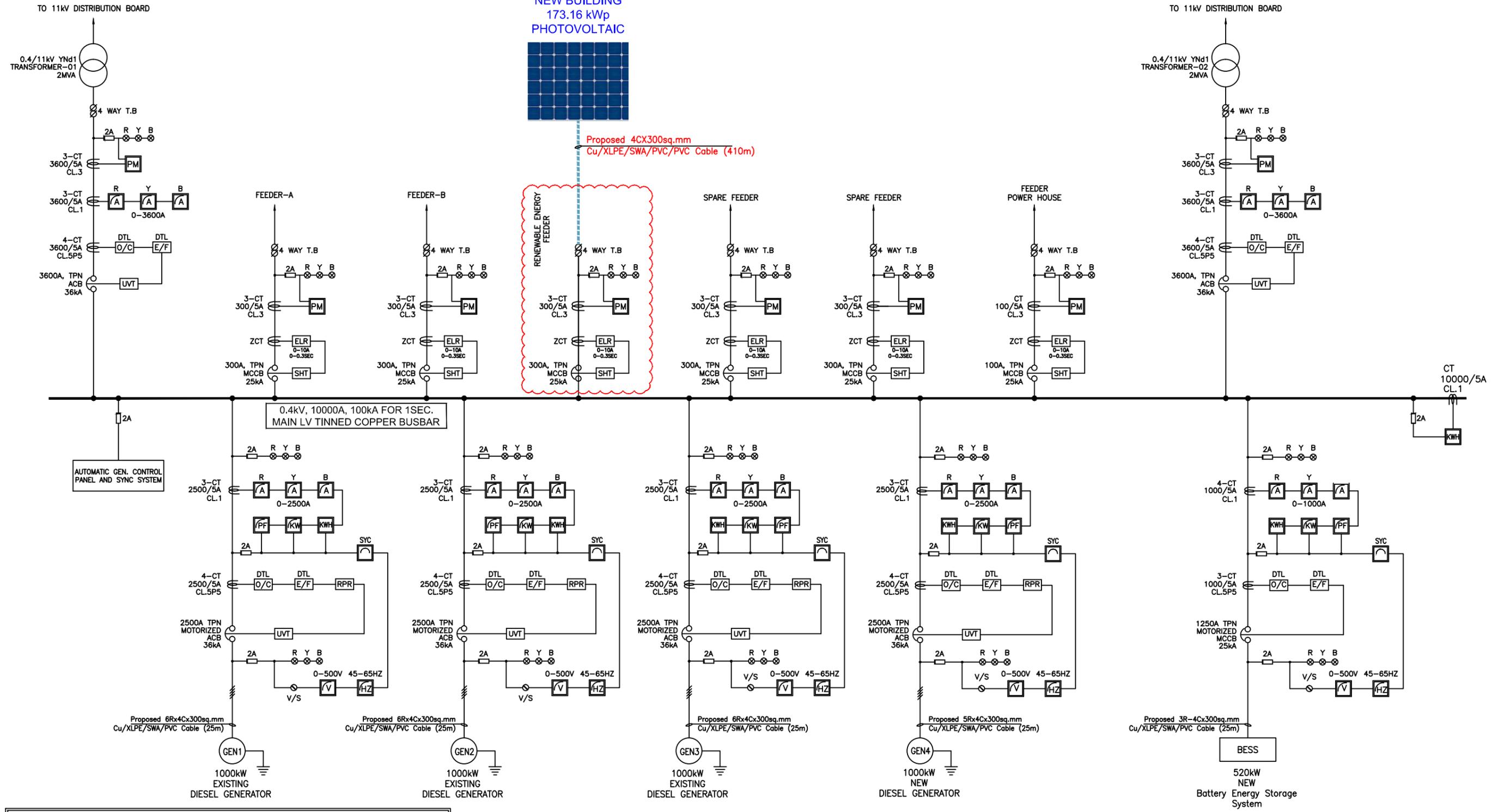
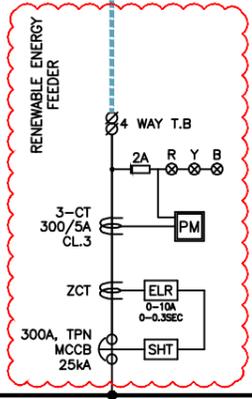


AFEEFUDIN SCHOOL
NEW BUILDING
173.16 kWp
PHOTOVOLTAIC



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

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		PROJECT PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	CLIENT: GOVERNMENT OF THE REPUBLIC OF MALDIVES	DRAWN : DAI/MBA DRW NO. : J431-GOPA-032-GR-E-S-0001-RevD	
FIRST REVISION	B	GKH	25/05/16					
SECOND REVISION	C	GKH	19/06/16	LICENCE NO:				ISLAND NAME : KULHUDHUFFUSHI
THIRD REVISION	D	SWK	04/08/16	DATE: : 04AUG16				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	DESIGN	SCALE
INITIAL DOCUMENTS	A	GKH	28/03/16	CONCEPTUAL SCHEMATIC DIAGRAM FOR LV DISTRIBUTION BOARD OF POWER HOUSE (B12-KULHUDHUFFUSHI)	DESIGN : ESM	SCALE : N.T.S
FIRST REVISION	B	GKH	25/05/16		DRAWN : DAI/MBA	DRW NO. : J431-GOPA-032-GR-E-S-0001-RevD
SECOND REVISION	C	GKH	19/06/16	PROJECT PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	LICENCE NO: DATE: : 04AUG16	ISLAND NAME : KULHUDHUFFUSHI PAGE : 2/2
THIRD REVISION	D	SWK	04/08/16			