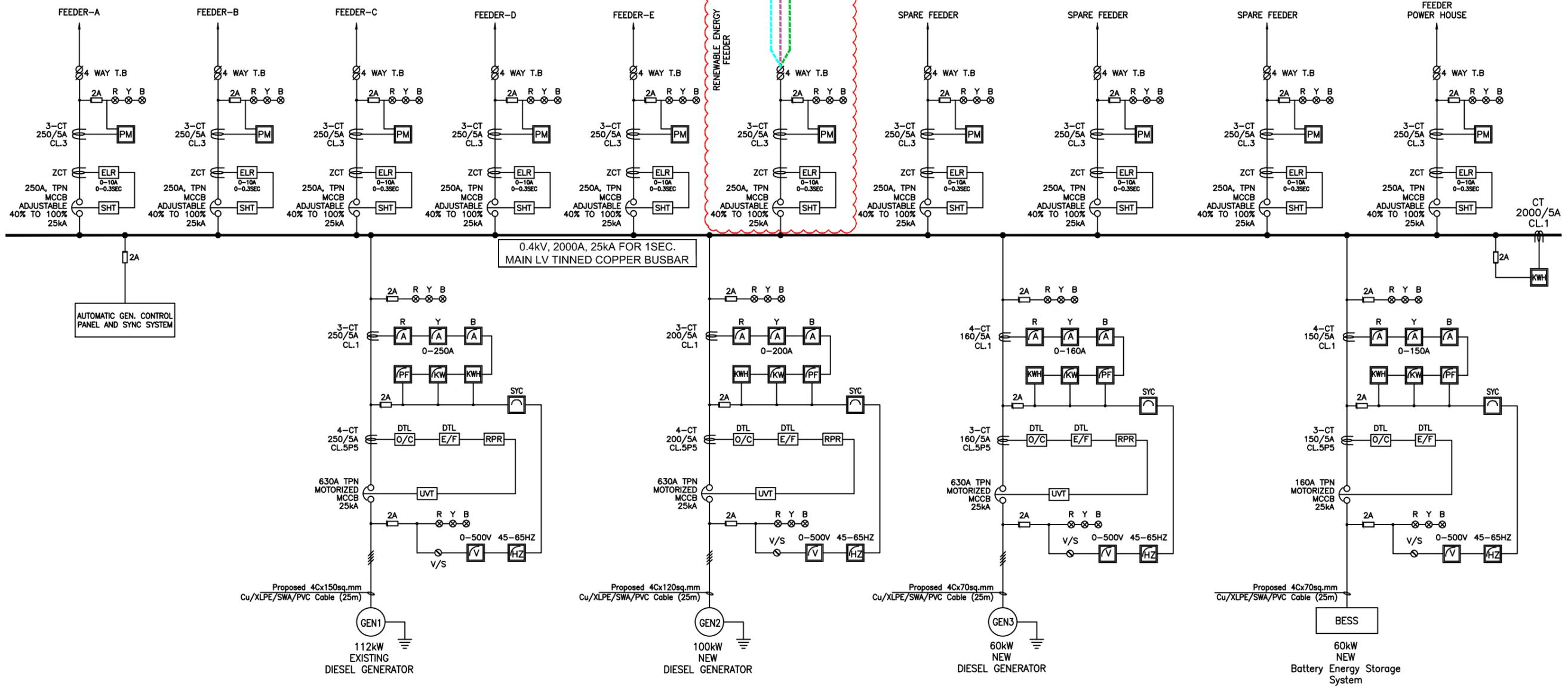




Proposed 4CX35sq.mm Cu/XLPE/SWA/PVC/PVC Cable (80m)  
 Proposed 4CX25sq.mm Cu/XLPE/SWA/PVC/PVC Cable (160m)  
 Proposed 4CX70sq.mm Cu/XLPE/SWA/PVC/PVC Cable (150m)



**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 25sq.mm Cu/XLPE/SWA/PVC/PVC Cable	160m
-----	PROPOSED 35sq.mm Cu/XLPE/SWA/PVC/PVC Cable	80m
-----	PROPOSED 70sq.mm Cu/XLPE/SWA/PVC/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/MBA	DRW NO. : J431-GOPA-008-GR-E-S-0001-RevD
FIRST REVISION	B	GKH	25/05/16		LICENCE NO:	ISLAND NAME : FINEY
SECOND REVISION	C	GKH	19/06/16		PROJECT PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	CLIENT: GOVERNMENT OF THE REPUBLIC OF MALDIVES
THIRD REVISION	D	SWK	04/08/16			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

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 (B04-FINEY)		: ESM	: N.T.S
FIRST REVISION	B	GKH	25/05/16			: DAI/MBA	DRW NO. : J431-GOPA-008-GR-E-S-0001-RevD
SECOND REVISION	C	GKH	19/06/16	PROJECT	CLIENT:	LICENCE NO:	ISLAND NAME : FINEY
THIRD REVISION	D	SWK	04/08/16	PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	GOVERNMENT OF THE REPUBLIC OF MALDIVES	DATE: : 04AUG16	PAGE : 2/2