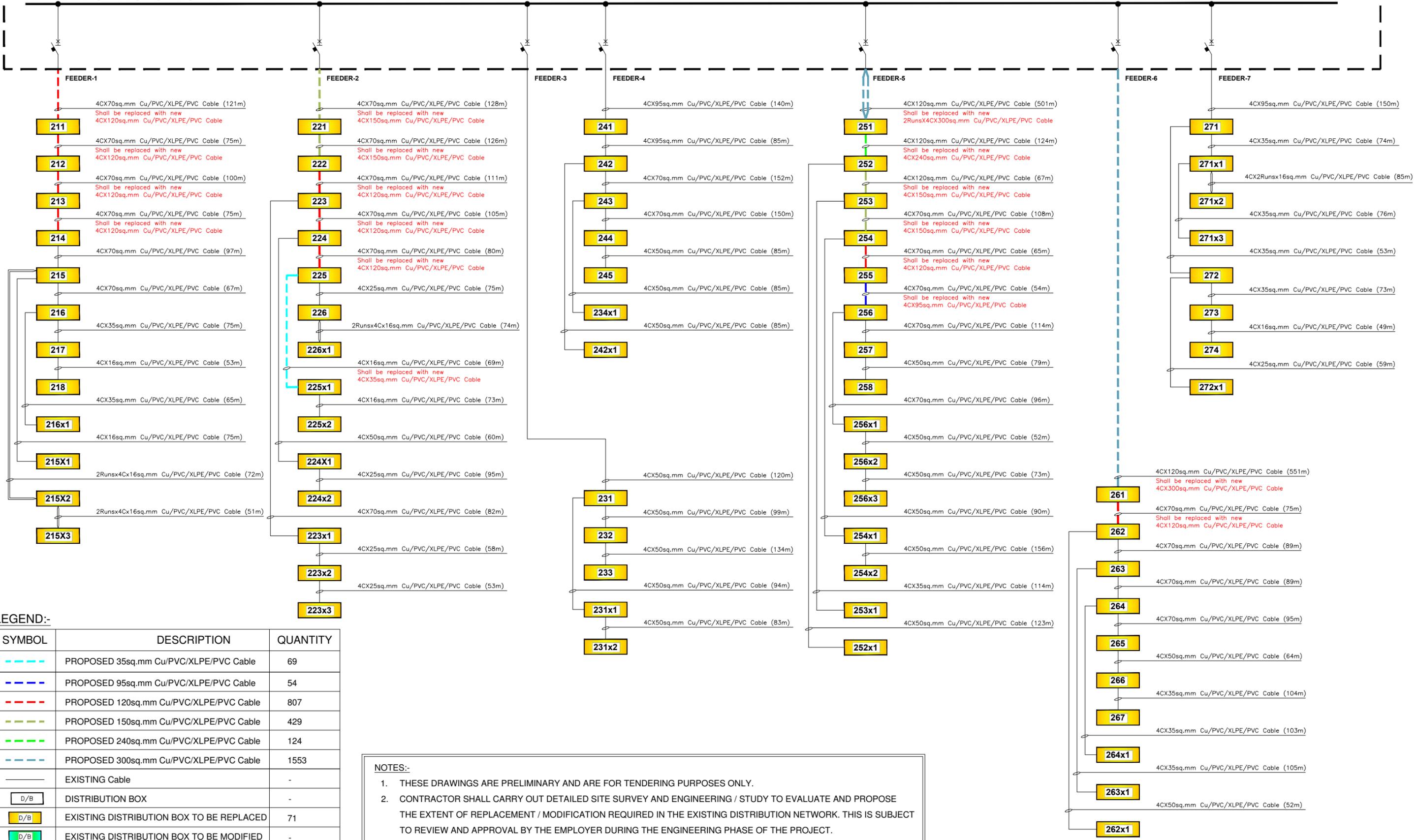


SUBSTATION - 2 (KULHUDHUFFUSHI)
MAIN LV DISTRIBUTION BOARD



LEGEND:-

SYMBOL	DESCRIPTION	QUANTITY
	PROPOSED 35sq.mm Cu/PVC/XLPE/PVC Cable	69
	PROPOSED 95sq.mm Cu/PVC/XLPE/PVC Cable	54
	PROPOSED 120sq.mm Cu/PVC/XLPE/PVC Cable	807
	PROPOSED 150sq.mm Cu/PVC/XLPE/PVC Cable	429
	PROPOSED 240sq.mm Cu/PVC/XLPE/PVC Cable	124
	PROPOSED 300sq.mm Cu/PVC/XLPE/PVC Cable	1553
	EXISTING Cable	-
	DISTRIBUTION BOX	-
	EXISTING DISTRIBUTION BOX TO BE REPLACED	71
	EXISTING DISTRIBUTION BOX TO BE MODIFIED	-

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	19/04/16	NETWORK DIAGRAM FOR B12 KULHUDHUFFUSHI SUBSTATION-2	DRAWN : DAI	DRW NO. : J431-GOPA-032-GR-E-D-0002-RevA
				PROJECT	LICENCE NO:	ISLAND NAME : KULHUDHUFFUSHI
				PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	CLIENT: GOVERNMENT OF THE REPUBLIC OF MALDIVES	PAGE : 1/3
					DATE: : 19APR16	

KULHUDHUFFUSHI SS2_Existing

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%)	Remarks
Feeder-1	DB-211	1	4C x 70	121	265	159	63.19	112.00	70.40	98.19	1.81	1.81	YES	
DB-211	DB-212	1	4C x 70	75	265	159	56.74	102.90	64.70	97.16	1.03	2.84	YES	
DB-212	DB-213	1	4C x 70	100	265	159	51.02	93.71	58.90	95.91	1.25	4.09	YES	
DB-213	DB-214	1	4C x 70	75	265	159	45.24	84.46	53.10	95.07	0.84	4.93	YES	
DB-214	DB-215	1	4C x 70	97	265	159	39.82	75.15	47.30	94.10	0.97	5.90	NO	
DB-215	DB-215x1	1	4C x 16	75	115	69	4.91	9.39	13.60	93.75	0.35	6.25	NO	
DB-215	DB-215x2	2	4C x 16	72	230	138	9.82	18.78	13.60	93.76	0.34	6.24	NO	
DB-215x2	DB-215x3	2	4C x 16	51	230	138	4.89	9.40	6.80	93.64	0.12	6.36	NO	
DB-215	DB-216	1	4C x 70	67	265	159	19.67	37.62	23.70	93.77	0.33	6.23	NO	
DB-216	DB-216x1	1	4C x 35	65	180	108	4.89	9.40	8.70	93.62	0.15	6.38	NO	
DB-216	DB-217	1	4C x 35	75	180	108	9.81	18.84	17.40	93.42	0.34	6.58	NO	
DB-217	DB-218	1	4C x 16	53	115	69	4.89	9.43	13.70	93.17	0.25	6.83	NO	
Feeder-2	DB-221	1	4C x 70	128	265	159	74.78	131.90	83.00	97.74	2.26	2.26	YES	
DB-221	DB-222	1	4C x 70	126	265	159	67.64	122.80	77.20	95.67	2.07	4.33	YES	
DB-222	DB-223	1	4C x 70	111	265	159	60.87	113.50	71.40	93.99	1.68	6.01	NO	
DB-223	DB-223x1	1	4C x 70	82	265	159	14.75	28.23	17.80	93.69	0.31	6.31	NO	
DB-223x1	DB-223x2	1	4C x 25	58	150	90	9.81	18.84	20.90	93.33	0.36	6.67	NO	
DB-223x2	DB-223x3	1	4C x 25	53	150	90	4.88	9.43	10.50	93.16	0.16	6.84	NO	
DB-223	DB-224	1	4C x 70	105	265	159	39.84	75.93	47.80	92.93	1.06	7.07	NO	
DB-224	DB-224x1	1	4C x 50	60	215	129	9.77	18.93	14.70	92.73	0.21	7.27	NO	
DB-224x1	DB-224x2	1	4C x 25	95	150	90	4.88	9.48	10.50	92.43	0.30	7.57	NO	
DB-224	DB-225	1	4C x 70	80	265	159	24.62	47.56	29.90	92.43	0.51	7.57	NO	
DB-225	DB-225x1	1	4C x 16	69	115	69	9.81	19.06	27.60	91.77	0.66	8.23	NO	
DB-225x1	DB-225x2	1	4C x 16	73	115	69	4.88	9.54	13.80	91.41	0.35	8.59	NO	
DB-225	DB-226	1	4C x 25	75	150	90	9.77	19.02	21.10	91.96	0.47	8.04	NO	
DB-226	DB-226x1	2	4C x 16	74	230	138	4.88	9.52	6.90	91.78	0.18	8.22	NO	
Feeder-3	DB-231	1	4C x 50	120	215	129	25.33	45.47	35.20	99.00	1.00	1.00	YES	
DB-231	DB-231x1	1	4C x 50	94	215	129	10.00	18.19	14.10	98.68	0.31	1.32	YES	
DB-231x1	DB-231x2	1	4C x 50	83	215	129	4.98	9.10	7.10	98.54	0.14	1.46	YES	
DB-231	DB-232	1	4C x 50	99	215	129	10.01	18.20	14.10	98.66	0.33	1.34	YES	
DB-232	DB-233	1	4C x 50	134	215	129	4.99	9.11	7.10	98.44	0.22	1.56	YES	
Feeder-4	DB-241	1	4C x 95	140	315	189	35.60	63.87	33.80	99.10	0.90	0.90	YES	
DB-241	DB-242	1	4C x 95	85	315	189	30.22	54.80	29.00	98.63	0.47	1.37	YES	
DB-242	DB-242x1	1	4C x 50	85	215	129	4.98	9.10	7.10	98.49	0.14	1.51	YES	
DB-242	DB-243	1	4C x 70	152	265	159	20.08	36.60	23.00	97.89	0.74	2.11	YES	
DB-243	DB-243x1	1	4C x 50	85	215	129	4.97	9.15	7.10	97.75	0.14	2.25	YES	
DB-243	DB-244	1	4C x 70	150	265	159	9.98	18.32	11.50	97.53	0.36	2.47	YES	
DB-244	DB-245	1	4C x 50	85	215	129	4.98	9.17	7.10	97.38	0.14	2.62	YES	
Feeder-5	DB-251	1	4C x 120	501	360	216	81.59	144.10	66.70	93.92	6.08	6.08	NO	
DB-251	DB-252	1	4C x 120	124	360	216	70.88	134.70	62.40	92.52	1.40	7.48	NO	
DB-252	DB-252x1	1	4C x 50	123	215	129	4.87	9.48	7.40	92.30	0.21	7.70	NO	
DB-252	DB-253	1	4C x 120	67	360	216	59.90	115.80	53.60	91.87	0.65	8.13	NO	
DB-253	DB-253x1	1	4C x 35	114	180	108	4.88	9.53	8.80	91.60	0.26	8.40	NO	
DB-253	DB-254	1	4C x 70	108	265	159	49.69	96.73	60.80	90.48	1.39	9.52	NO	
DB-254	DB-254x1	1	4C x 50	90	215	129	9.69	19.28	14.90	90.16	0.32	9.84	NO	
DB-254x1	DB-254x2	1	4C x 50	156	215	129	4.83	9.65	7.50	89.88	0.28	10.12	NO	
DB-254	DB-255	1	4C x 70	65	265	159	34.20	67.86	42.70	89.89	0.59	10.11	NO	
DB-255	DB-256	1	4C x 70	54	265	159	29.10	58.22	36.60	89.47	0.42	10.53	NO	
DB-256	DB-256x1	1	4C x 70	96	265	159	14.49	29.15	18.30	89.10	0.37	10.90	NO	
DB-256x1	DB-256x2	1	4C x 50	52	215	129	9.62	19.45	15.10	88.92	0.19	11.08	NO	
DB-256x2	DB-256x3	1	4C x 50	73	215	129	4.80	9.73	7.50	88.79	0.13	11.21	NO	
DB-256	DB-257	1	4C x 70	114	265	159	9.64	19.41	12.20	89.18	0.29	10.82	NO	
DB-257	DB-258	1	4C x 50	79	215	129	4.80	9.71	7.50	89.04	0.14	10.96	NO	
Feeder-6	DB-261	1	4C x 120	551	360	216	52.79	93.82	43.40	95.65	4.35	4.35	YES	
DB-261	DB-262	1	4C x 70	75	265	159	45.15	84.56	53.20	94.81	0.84	5.19	NO	
DB-262	DB-262x1	1	4C x 50	52	215	129	4.90	9.33	7.20	94.72	0.09	5.28	NO	
DB-262	DB-263	1	4C x 70	89	265	159	34.83	65.91	41.50	94.03	0.78	5.97	NO	
DB-263	DB-263x1	1	4C x 35	103	180	108	4.90	9.39	8.70	93.80	0.23	6.20	NO	
DB-263	DB-264	1	4C x 70	89	265	159	24.67	47.16	29.70	93.48	0.56	6.52	NO	
DB-264	DB-264x1	1	4C x 35	103	180	108	4.89	9.42	8.70	93.24	0.23	6.76	NO	
DB-264	DB-265	1	4C x 70	95	265	159	14.71	28.33	17.80	93.12	0.36	6.88	NO	
DB-265	DB-266	1	4C x 50	64	215	129	9.77	18.90	14.70	92.90	0.22	7.10	NO	
DB-266	DB-267	1	4C x 35	104	180	108	4.88	9.46	8.80	92.66	0.24	7.34	NO	
Feeder-7	DB-271	1	4C x 95	150	315	189	40.64	72.91	38.60	98.90	1.10	1.10	YES	
DB-271	DB-271x1	1	4C x 35	74	180	108	15.03	27.34	25.30	98.41	0.49	1.59	YES	
DB-271x1	DB-271x2	2	4C x 16	85	230	138	4.98	9.12	6.60	98.21	0.20	1.79	YES	
DB-271x1	DB-271x3	1	4C x 35	76	180	108	4.98	9.12	8.40	98.24	0.17	1.76	YES	
DB-271	DB-272	1	4C x 35	53	180	108	20.07	36.49	33.80	98.43	0.47	1.57	YES	
DB-272	DB-272x1	1	4C x 25	59	150	90	4.98	9.12	10.10	98.25	0.18	1.75	YES	
DB-272	DB-273	1	4C x 35	73	180	108	9.98	18.26	16.90	98.11	0.32	1.89	YES	
DB-273	DB-274	1	4C x 16	49	115	69	4.98	9.14	13.20	97.88	0.23	2.12	YES	

PURPOSE OF SUBMISSION	REV	AUTHORISED BY	DATE	DRAWING TITLE	DESIGN : ESM	SCALE : N.T.S
FIRST REVISION	A	GKH	19/04/16	NETWORK DIAGRAM FOR B12 KULHUDHUFFUSHI SUBSTATION-2	DRAWN : DAI	DRW NO. :J431-GOPA-032-GR-E-D-0002-RevA
				PROJECT	CLIENT:	LICENCE NO:
				PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	GOVERNMENT OF THE REPUBLIC OF MALDIVES	ISLAND NAME : KULHUDHUFFUSHI
					DATE: : 19APR16	PAGE : 2/3

KULHUDHUFFUSHI SS2_Proposed

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%)	Remarks
Feeder-1	DB-211	1	4C x 120	121	360	216	61.96	110.80	51.30	98.87	1.13	1.13	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-211	DB-212	1	4C x 120	75	360	216	56.15	101.70	47.10	98.23	0.64	1.77	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-212	DB-213	1	4C x 120	100	360	216	50.75	92.57	42.90	97.46	0.78	2.54	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-213	DB-214	1	4C x 120	75	360	216	45.32	83.41	38.60	96.93	0.52	3.07	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-214	DB-215	1	4C x 70	97	285	159	40.08	74.21	46.70	96.98	0.96	4.02	YES	
DB-215	DB-215x1	1	4C x 16	75	115	69	4.94	9.27	13.40	95.63	0.35	4.37	YES	
DB-215	DB-215x2	2	4C x 16	72	230	138	9.89	18.55	13.40	95.64	0.34	4.36	YES	
DB-215x2	DB-215x3	2	4C x 16	51	230	138	4.92	9.28	6.70	95.52	0.12	4.48	YES	
DB-215	DB-216	1	4C x 70	67	285	159	19.81	37.15	23.40	95.65	0.33	4.35	YES	
DB-216	DB-216x1	1	4C x 35	65	180	108	4.92	9.28	8.60	95.50	0.15	4.50	YES	
DB-216	DB-217	1	4C x 35	75	180	108	9.88	18.80	17.20	95.31	0.34	4.89	YES	
DB-217	DB-218	1	4C x 16	53	115	69	4.92	9.31	13.50	95.06	0.25	4.94	YES	
Feeder-2	DB-221	1	4C x 150	128	405	243	72.28	129.40	53.20	98.81	1.19	1.19	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 150 sq.mm LV Cable
DB-221	DB-222	1	4C x 150	128	405	243	66.31	120.30	49.50	97.73	1.09	2.27	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 150 sq.mm LV Cable
DB-222	DB-223	1	4C x 120	111	360	216	60.52	111.20	51.50	96.69	1.03	3.31	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-223	DB-223x1	1	4C x 70	82	285	159	14.90	27.73	17.40	96.99	0.30	3.61	YES	
DB-223x1	DB-223x2	1	4C x 25	58	150	90	9.91	18.50	20.60	96.04	0.35	3.96	YES	
DB-223x2	DB-223x3	1	4C x 25	53	150	90	4.93	9.26	10.30	95.88	0.16	4.12	YES	
DB-223	DB-224	1	4C x 120	105	360	216	39.92	74.23	34.40	96.04	0.65	3.96	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-224	DB-224x1	1	4C x 90	60	215	129	9.88	18.53	14.40	95.84	0.20	4.16	YES	
DB-224x1	DB-224x2	1	4C x 25	95	150	90	4.94	9.28	10.30	95.55	0.29	4.45	YES	
DB-224	DB-225	1	4C x 120	80	360	216	24.79	46.45	21.50	95.73	0.31	4.27	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-225	DB-225x1	1	4C x 35	69	180	108	9.89	18.59	17.20	95.42	0.31	4.58	YES	Existing 4C x 16 sq.mm LV Cable Replaced with New 4C x 35 sq.mm LV Cable
DB-225x1	DB-225x2	1	4C x 16	73	115	69	4.93	9.31	13.50	95.08	0.34	4.92	YES	
DB-225	DB-226	1	4C x 25	75	150	90	9.89	18.60	20.70	95.27	0.46	4.73	YES	
DB-226	DB-226x1	2	4C x 16	74	230	138	4.92	9.30	6.70	95.10	0.17	4.90	YES	
Feeder-3	DB-231	1	4C x 50	120	215	129	25.33	45.47	35.20	99.00	1.00	1.00	YES	
DB-231	DB-231x1	1	4C x 50	94	215	129	10.00	18.19	14.10	98.68	0.31	1.32	YES	
DB-231x1	DB-231x2	1	4C x 90	83	215	129	4.98	9.10	7.10	98.54	0.14	1.46	YES	
DB-231	DB-232	1	4C x 50	99	215	129	10.01	18.20	14.10	98.68	0.33	1.34	YES	
DB-232	DB-233	1	4C x 50	134	215	129	4.99	9.11	7.10	98.44	0.22	1.56	YES	
Feeder-4	DB-241	1	4C x 95	140	315	189	35.60	63.87	33.80	99.10	0.90	0.90	YES	
DB-241	DB-242	1	4C x 95	85	315	189	30.22	54.80	29.00	98.63	0.47	1.37	YES	
DB-242	DB-242x1	1	4C x 50	65	215	129	4.98	9.10	7.10	98.49	0.14	1.51	YES	
DB-242	DB-243	1	4C x 70	152	285	159	20.08	36.60	23.00	97.89	0.74	2.11	YES	
DB-243	DB-243x1	1	4C x 50	85	215	129	4.97	9.15	7.10	97.75	0.14	2.25	YES	
DB-243	DB-244	1	4C x 70	150	285	159	9.96	18.32	11.50	97.53	0.36	2.47	YES	
DB-244	DB-245	1	4C x 90	85	215	129	4.96	9.17	7.10	97.38	0.14	2.62	YES	
Feeder-5	DB-251	2	4C x 300	501	1180	708	76.90	138.50	19.60	98.44	1.56	1.56	YES	Existing 4C x 120 sq.mm LV Cable Replaced with New 2Nos. 4C x 300 sq.mm LV Cable
DB-251	DB-252	1	4C x 240	124	540	324	70.83	129.40	39.90	97.63	0.81	2.37	YES	Existing 4C x 120 sq.mm LV Cable Replaced with New 4C x 240 sq.mm LV Cable
DB-252	DB-252x1	1	4C x 50	123	215	129	4.96	9.16	7.10	97.42	0.21	2.58	YES	
DB-252	DB-253	1	4C x 150	67	405	243	60.34	111.10	45.70	97.10	0.53	2.90	YES	Existing 4C x 120 sq.mm LV Cable Replaced with New 4C x 150 sq.mm LV Cable
DB-253	DB-253x1	1	4C x 35	114	180	108	4.96	9.20	8.50	96.84	0.25	3.16	YES	
DB-253	DB-254	1	4C x 150	108	405	243	50.06	92.70	38.10	96.38	0.72	3.62	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 150 sq.mm LV Cable
DB-254	DB-254x1	1	4C x 50	90	215	129	9.90	18.50	14.30	96.07	0.31	3.93	YES	
DB-254x1	DB-254x2	1	4C x 50	156	215	129	4.94	9.26	7.20	95.81	0.27	4.19	YES	
DB-254	DB-255	1	4C x 120	65	360	216	34.81	64.97	30.10	96.03	0.35	3.97	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-255	DB-256	1	4C x 95	54	315	189	29.73	55.73	29.50	95.72	0.30	4.28	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 95 sq.mm LV Cable
DB-256	DB-256x1	1	4C x 70	96	285	159	14.83	27.89	17.50	95.37	0.36	4.63	YES	
DB-256x1	DB-256x2	1	4C x 50	52	215	129	9.84	18.60	14.40	95.19	0.18	4.81	YES	
DB-256x2	DB-256x3	1	4C x 50	73	215	129	4.91	9.31	7.20	95.07	0.12	4.93	YES	
DB-256	DB-257	1	4C x 70	114	285	159	9.87	18.57	11.70	95.44	0.28	4.58	YES	
DB-257	DB-258	1	4C x 50	79	215	129	4.92	9.29	7.20	95.31	0.13	4.89	YES	
Feeder-6	DB-261	1	4C x 300	551	590	354	51.34	92.35	26.10	97.72	2.28	2.28	YES	Existing 4C x 120 sq.mm LV Cable Replaced with New 4C x 300 sq.mm LV Cable
DB-261	DB-262	1	4C x 120	75	360	216	45.31	83.22	38.50	97.19	0.52	2.81	YES	Existing 4C x 70 sq.mm LV Cable Replaced with New 4C x 120 sq.mm LV Cable
DB-262	DB-262x1	1	4C x 50	52	215	129	4.95	9.18	7.10	97.11	0.09	2.89	YES	
DB-262	DB-263	1	4C x 70	89	285	159	35.12	64.86	40.80	96.43	0.77	3.57	YES	
DB-263	DB-263x1	1	4C x 35	103	180	108	4.94	9.24	8.60	96.20	0.23	3.80	YES	
DB-263	DB-264	1	4C x 70	89	285	159	24.88	46.40	29.20	95.88	0.55	4.12	YES	
DB-264	DB-264x1	1	4C x 35	103	180	108	4.93	9.27	8.60	95.65	0.23	4.35	YES	
DB-264	DB-265	1	4C x 70	95	285	159	14.85	27.87	17.50	95.53	0.35	4.47	YES	
DB-265	DB-266	1	4C x 50	64	215	129	9.86	18.60	14.40	95.31	0.22	4.89	YES	
DB-266	DB-267	1	4C x 35	104	180	108	4.92	9.31	8.60	95.06	0.23	4.92	YES	
Feeder-7	DB-271	1	4C x 95	150	315	189	40.64	72.91	38.80	98.90	1.10	1.10	YES	
DB-271	DB-271x1	1	4C x 35	74	180	108	15.03	27.34	25.30	98.41	0.49	1.59	YES	
DB-271x1	DB-271x2	2	4C x 16	85	230	138	4.98	9.12	6.60	96.21	0.20	1.79	YES	
DB-271x2	DB-271x3	1	4C x 35	76	180	108	4.98	9.12	8.40	96.24	0.17	1.76	YES	
DB-271	DB-272	1	4C x 35	53	180	108	20.07	36.49	33.80	98.43	0.47	1.57	YES	
DB-272	DB-272x1	1	4C x 25	59	150	90	4.98	9.12	10.10	98.25	0.18	1.75	YES	
DB-272	DB-273	1	4C x 35	73	180	108	9.98	18.26	16.90	98.11	0.32	1.89	YES	
DB-273	DB-274	1	4C x 16	49	115	69	4.98	9.14	13.20	97.88	0.23	2.12	YES	

PURPOSE OF SUBMISSION	REV	AUTHORISED BY	DATE	DRAWING TITLE	DESIGN : ESM	SCALE : N.T.S
FIRST REVISION	A	GKH	19/04/16	NETWORK DIAGRAM FOR B12 KULHUDHUFFUSHI SUBSTATION-2	DRAWN : DAI	DRW NO. : J431-GOPA-032-GR-E-D-0002-RevA
				PROJECT	LICENCE NO:	ISLAND NAME : KULHUDHUFFUSHI
				PREPARING OUTER ISLANDS SUSTAINABLE DEVELOPMENT	CLIENT: GOVERNMENT OF THE REPUBLIC OF MALDIVES	PAGE : 3/3
					DATE: : 19APR16	