بسم الله الرحمن الرحيم

Ministry of Finance
Ameenee Magu, Male', Republic of Maldives

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ދާރުލްއަމީނީ ، މާލެ، ދިވެހިރާއްޖެ

CLARIFICATION 01

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ނަންބަރ **No:**	**TES/2020/G-012**	
ޕްރޮޖެކްޓް Project:	**Package 1 - Procurement of Design, Supply, Installation and Maintenance of Grid–tied Solar PV-Diesel Hybrid Power Generation Plants and Solar-Powered Ice Making Plants (Lot 1 & Lot 2)**	
ތާރީޚް Issued Date	**15th November 2020**	
ސަފްޙާ ތަކެއް No. of Pages: -29	ބޮކް.ނަމްބަރ Boq: -00	ޑްރޮއިންސް Drawings: -01

Please include this clarification when submitting the bid

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Please find attached;

- Answers to the queries received.
- Drawings and documents relating to query 19.

ނަން **Name: Fathimath Rishfa Ahmed**	ސޮއި **Signature:**

CLARIFICATION 01

NO.	Reference Chapter	Description	Query	Response
1			Section 6, point 4.2.4.7 indicates that "PV inverter shall have a maximum nominal AC rating of 30 kVA". Due to the market evolution is possible to provide up to 100 kW string inverters with the same characteristics as the smaller ones. This power output allows installing less equipment increasing the reliability of the installation due to there is less equipment that could fail. Could you please indicate if inverters with a power output bigger than 30 kVA will be considered?	Up to 50kW can be accepted.
2			Could you please provide us with the consumption data for each Island?	This data will be provided to the winning bidder.
3			Could you please provide us with a .kmz file with the exact location of the proposed building for rooftop installations?	This data will be provided to the winning bidder.
4			Could you please indicate the limits of the free field location proposed for ground-mounted installations?	The free field limits are provided in the tender document section 6, under site specification.
5			Could you please clarify the scope of	Replacement or Installation Diesel Generators are

			works related to the diesel generators on each island? For each island, there is information about the current status of the diesel generators but the expected works are not included.	not included in the scope of work however power cables and control cables shall be replaced for the islands where the LVDB replacement is required.
6			Page 123 of section 6 indicates that "the scope includes also works not explicitly stated in Section 6 or elsewhere in the tender". Could you please indicate which works must be considered in order to provide the correct approach to them?	Refers to general works and items which will be required for the completion of the project.
7			Could you please provide us with pictures of the powerhouse in order to evaluate the current status and adapt the possible solutions to the real conditions?	The winning bidder shall visit the site for site survey prior to do the detailed design. At this stage these information will not be provided however the bidder is free to visit the site at his own cost.
8			Could you please provide us with pictures of the proposed locations for PV installations?	The winning bidder shall visit the site for site survey prior to do the detailed design. At this stage these information will not be provided however the bidder is free to visit the site at his own cost.
9			Could you please confirm if the "Replace Existing LVDB" of section 6, table 2-3 consists in the replacement of the entire LVDB as per attached drawings?	Yes
10			Could you please provide us with information about DHI (Diffuse Horizontal Irradiation)?	Please refer to NREL data base.

11			Could you please provide us with information about the rooftops (materials, beams, purlins)?	The information required for the purpose of bid submission is included in the tender document, Section 6.
12			After carefully reading the ITB 21. Bid Security, we would like to confirm if you will accept a bond issued by a surety.	Not acceptable.
13			In the case of contracts of similar size and nature in lot 2, please confirm whether the similar contracts are related to the design, supply, installation, supervision, commissioning of PV power plants or to the design, supply, implementation, commissioning of ice making plant.	Both. Please refer to Section 3.
14			Regarding the Experience in Key Activities like the Design, supply, implementation, commissioning of ice making plant, could it be met by the subcontractor?	Either the main bidder or a joint venture company should meet the requirement.
15			Please, consider the electronic submission. We have recently experienced delays with courier companies that currently are unable to guarantee fixed delivery dates due to limited air connections. We consider that international companies are at a clear disadvantage compared to national ones since we are forced to lose a minimum of	Electronic submission is not allowed for this tender.

			2 weeks in the preparation of our offers due to the sending of the originals by courier.	
16			Could you please provide us with information about Net metering regulation? We have tried to download this from the government web site but it has not been possible due to server fails.	This information is not relevant.
17			Could you please provide us with the drawings corresponding to lot 2 islands?	Necessary drawings required for bidding purpose are provided in Section 6.
18			Could you please confirm if it is necessary to monitor and control existing distribution box in Buruni Island or only the replaced or modified in the project?	Yes, it is necessary.
19			If it's necessary to monitor and control all existing distribution boxes on Buruni Island, could you please indicate us how many distribution boxes are there on each island?	The required drawings and other documents are attached with this clarification.
20			Could you please provide us with information about the existing protection at each lot 2 island powerhouse?	The bidder shall take care of the required protection at connection point.
21			Could you please indicate us if there is any ground location that must be fenced in case of being used for PV installation?	No.

22			Due to the situation of the proposed building, where some of them are close among them, it is possible that someone could cause shades on other rooftops. Could you please provide us with information about building height?	In general there will be no shading from buildings. Generally the building height will be in the range of 4 to 6m.
23			Regarding the list of codes and standards that PV inverters must comply, UL 1741 appears in this list among the rest of international and European certificates. Currently, it is so difficult to find an inverter that complies with European/ international and American standards at the same time because the American device works with another voltage and frequencies. We understand that this is a mistake and that only European and international standards must comply. Could you please confirm what codes and standards must be followed?	You may refer to equivalent European or International Standard.
24			Vilufushi: In section 6 point 2.7.2 is indicated that currently there are 4 diesel generators on the island. 3 generators of 250 kW and 1 of 400 kW. Besides it is indicated that diesel generator 1 (250 kW) is damaged and generator 4 (400 kW) is underrated because of the power cable. In the SLD 4 diesel generators appear, 2	Installation and related works for diesel generator in Vilufushi is not within scope of contractor.

			generators of 250 kW and 2 generators of 400 kW, one of the 400 kW generators is indicated as new. Could you please indicate what is the scope of works related to the diesel generator on this island?	
25			Vilufushi: Table 2-3 in section 6 indicates that in Vilufushi island a replacement of the LVDB is needed, in the island information (point 2.7.2 of section 6) it is shown that a new feeder must be added to the LVDB, finally in the attached drawing is shown, in red, that 2 feeders must be installed. Could you please indicate what is the expected scope of works related to the LVDB on this island?	Modify LVDB to accommodate new PV feeders. Replacement of LVDB is not required.
26			Madifushi: In section 6 point 2.8.2 is indicated that currently there are 3 diesel generators in the island (250 kW, 160 kW and 150 kW). Besides it is indicated that diesel generator 2 (150 kW) is damaged. In the SLD, 3 diesel generator appear, 250 kW, 600 kW and 160 kW. 600 kW generator is indicated as new. Could you please indicate what is the scope of works related to the diesel generator on this island?	Power cable installation, protection and genset controller installation and connection in replacement LVDB for the diesel generators.
27			Dhiyamigili: In section 6 point 2.9.2 is indicated that currently there are 3 diesel	Power cable installation, protection and genset controller installation and connection in replacement

			generators in the island (250 kW, 150 kW and 140 kW). In the SLD, 3 diesel generator appear, 400 kW, 250 kW and 160 kW. 400 kW and 160 kW generators are indicated as new. Could you please indicate what is the scope of works related to the diesel generator io this island?	LVDB for the diesel generators.
28			Dhiyamigili: Table 2-3 in section 6 indicates that in Dhiyamigili island a BEES feeder and 2 outgoing feeders must be installed, according to table 2-2, BESS is not expected in Dhiyamigili. In the island information (point 2.9.2 of section 6) it is not shown any works related to the LVDB, finally in the attached drawing is not shown any modification. Could you please indicate what is the expected scope of works related to the LVDB on this island?	Replacement of entire LVDB as per attached drawing. BESS feeder is not required and BESS will not be installed in Dhiyamigili.
29			Guraidhoo: In section 6 point 2.10.2 is indicated that currently there are 3 diesel generators in the island (360 kW, 600 kW and 800 kW). In the SLD, 4 diesel generator appear, 360 kW, 600 kW, 800 kW and 1000 kW. 1000 kW generator is indicated as new. Could you please indicate what is the scope of works related to the diesel generator on this island?	Installation of diesel generators are not within scope. Connecting diesel generators to new LVDB is scope of contractor.

30			Kandoodhoo: In section 6 point 2.11.2 is indicated that currently there are 3 diesel generators in the island (160 kW, 220 kW and 160 kW). Besides, it is indicated that diesel generators of 220 kW and 160 kW have a problem in the radiator. In the SLD, 3 diesel generators appear, 160 kW, 250 kW and 200 kW. 200 kW and 250 kW generators are indicated as new. Could you please indicate what is the scope of works related to the diesel generator on this island?	There is no scope of work for diesel generator in Kandoodhoo.
31			Kandoodhoo: Table 2-3 in section 6 indicates that in Kandoodhoo island a replacement of the LVDB is needed. In the island information (point 2.9.2 of section 6) it is not shown that the replacement is needed, finally in the attached drawing is shown that 3 feeders must be installed for the solar plants and 1 for the BESS. Could you please indicate what is the expected scope of works related to the LVDB on this island?	As per Table 2-3, modification is required, not replacement. As per drawing, this includes BESS feeder and 3 feeders for solar plants.
32			Vandhoo: In section 6 point 2.12.2 is indicated that currently there are 3 diesel generators in the island (160 kW, 160 kW and 112 kW). In the SLD, 3 diesel generator appear, 80 kW, 160 kW and 250	There is no scope of works related to diesel generator on Vandhoo.

			kW. 250 kW generator is indicated as new and 80 kW generator as existing. Could you please indicate what is the scope of works related to the diesel generator on this island?	
33			Vandhoo: Table 2-3 in section 6 indicates that in Vandhoo island a replacement of the LVDB is needed. In the island information (point 2.12.2 of section 6) it is shown that a new feeder must be installed. Finally, in the attached drawing is shown, in red, that 3 feeders must be installed for the PV plants and one additional for the BESS. Could you please indicate what is the expected scope of works related to the LVDB on this island?	Modification of LVDB to accommodate BESS and 3 feeders for PV plants.
34			Hirilandhoo: In section 6 point 2.13.2 is indicated that currently there are 3 diesel generators in the island (400 kW, 250 kW and 250 kW). 400 kW is indicated as new and both 250 kW generators are in bad shape as maintenance was not carried out. In the SLD, 4 diesel generators appear, 250 kW, 250 kW, 400 kW and 600 kW. 600 kW generator is indicated as new. Could you please indicate what is the scope of works related to the diesel generator on this island	Connecting diesel generators to replacement LVDB.

35			Gaadhifushi: Table 2-3 in section 6 indicates that in Gaadhifushi island a replacement of the LVDB is needed. In the island information (point 2.14.2 of section 6) it is shown that a new feeder must be installed. Finally, in the attached drawing is shown, in red, that new feeder must be installed for the BESS. Could you please indicate what is the expected scope of works related to the LVDB on this island?	Modification to include BESS feeder. Existing spare feeders shall be used for Solar plants.
36			Thimarafushi: In section 6 point 2.15.2 is indicated that currently there are 3 diesel generators in the island (250 kW, 400 kW and 600 kW). 250 kW generator is indicated as damaged. In the SLD, the same 3 diesel generators are considered. Could you please indicate what is the scope of works related to the diesel generator on this island?	Connecting diesel generators to replacement LVDB.
37			Veymandoo: In section 6 point 2.16.2 is indicated that currently there are 3 diesel generators in the island (250 kW, 400 kW and 600 kW). In the SLD, 3 diesel generators appear, 800 kW, 600 kW and 400 kW. 800 kW generator is indicated as new and besides, there is a fourth space for a spare generator. Could you please	Connecting diesel generators to replacement LVDB.

			indicate what is the scope of works related to the diesel generator on this island?	
38			Kinbidhoo: In section 6 point 2.17.2 is indicated that currently there are 3 diesel generators in the island (200 kW, 140 kW and 160 kW). All diesel generators are currently working. In the SLD, 3 diesel generators appear, 250 kW, 200 kW and 160 kW. 250 kW generator is indicated as new. Could you please indicate what is the scope of works related to the diesel generator on this island?	There is no scope of works related to diesel generator on Kinbidhoo.
39			Kinbidhoo: Table 2-3 in section 6 indicates that in Kinbidhoo island a replacement of the LVDB is needed. In the island information (point 2.17.2 of section 6) it is indicated that a new feeder must be installed. Finally, in the attached drawing is shown that 2 feeders must be installed for the solar plants and 1 for the BESS. Could you please indicate what is the expected scope of works related to the LVDB on this island?	Modification to accommodate BESS feeder and 2 solar feeders.
40			Omadhoo: In section 6 point 2.18.2 is indicated that currently there are 3 diesel generators in the island (128 kW, 112 kW and 160 kW). 128 kW generator must be replaced according to the information. In	There is no scope of works related to diesel generator on Vandhoo.

			the SLD, 3 diesel generators appear, 128 kW, 200 kW and 160 kW. 200 kW generator is indicated as new. Could you please indicate what is the scope of works related to the diesel generator on this island?	
41			Omadhoo: Table 2-3 in section 6 indicates that in Kinbidhoo island a replacement of the LVDB is needed. In the island information (point 2.18.2 of section 6) it is indicated that a new feeder must be installed. Finally, in the attached drawing is shown that 2 feeders must be installed for the solar plants. Could you please indicate what is the expected scope of works related to the LVDB on this island?	Modification to accommodate BESS feeder and 2 solar feeders.
42			After the pre-bid meeting held this morning, we once again express our request for the deadline to be extended by two weeks. Due to the current situation, we are forced to send our offer only two days after the deadline for clarifications, so we as a foreign company would be clearly disadvantaged.	No time extension is provided at this time.
43			Additionally, we kindly ask you to reconsider the possibility of submitting the offer electronically, since it would	Electronic submission is not allowed.

			allow all the bidders to have the same time to prepare the offers.	
44			Please clarify if according to ITB 10 Language of Bids, documents in a language other than English such as financial statements could be provided accompanied by an accurate translation of the relevant passages into the English language like, for example, balance sheets.	Yes, they should be submitted accompanied by translation by reputable third party.
45			Could you please provide us with information about Net metering regulation? We have tried to download this from the government web site but it has not been possible due to server fails.	Information regarding net metering regulation is not applicable for purposes of this project.
46			A Bidder, and all partners constituting the Bidder, shall have the nationality of an eligible country, in accordance with Section 5 (Eligible Countries). Is Lebanon an eligible country? It is not listed in section 5	Only bidders having the nationality as stated in Section 5 are eligible.
47			If company belongs entirely to a holding with a very big turn-over is it allowed to participate? Knowing that the company itself didn't reach the required turnover in the previous years.	The Company who participates in Tender shall meet all required qualification criteria.

48			The Bidder is advised to visit and examine the site where the plant is to be installed. Is there any scheduled site visit?	There is no scheduled visit, but bidder may visit at their own expense. The winning bidder will be required to conduct detailed survey.
49			What's the evaluation process? Any technical / commercial scoring!	Single stage two envelope system will be followed. Only the bidder whose proposals are substantially responsive and meet technical requirements will be considered for financial evaluation and lowest bidder will be considered as the winning party.
50			The selling price to be all inclusive? If yes, please confirm if imported goods are tax exempted. Is installation also tax exempted? What are the customs duties in Maldives?	Proposed cost shall be inclusive of all costs. Materials and equipment imported for the purposes of the project will be exempted from custom duty. However, other taxes such as GST and BPT will be applicable as per government laws and regulations.
51			Can a foreign company execute the project, or it should have a local registered partner?	Any foreign bidder can execute the project. However, the winning bidder shall re-register in Maldives.
52			The prices shall be quoted either in the currency of the Bidder's home country, or in any fully convertible currency of up to three foreign currencies	Yes, this is correct.
53			If project is quoted in USD, will the payment be in USD to a foreign offshore bank account?	Payment will be made in USD for foreign companies which quote in USD. And it will be deposited to the bank account of their choice.
54			The installation and design services if quoted in USD, will they be paid in USD?	Payment will be made in USD for foreign companies which quote in USD.

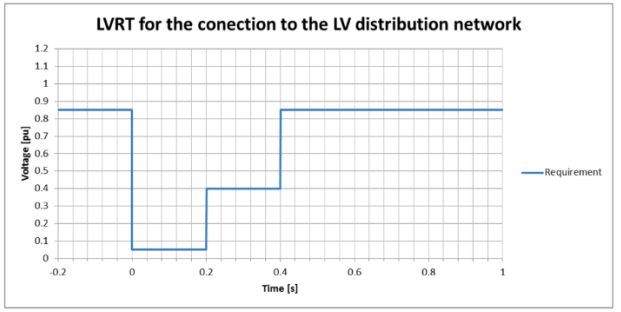
55			If Bidder registered as single entity, are they able to participate in the tender as JV?	Yes. Even though initial registration was done as a single entity, you may submit bid as JV with supporting letter of intent (preferably submitted before bid submission).
56			Can the cable sizing be further optimized based on distances and product availability at the suppliers stock?	Current requirements is based on a feasibility study and any changes can only be made by winning party during detailed design subject to Employer's approval.
57			DC cables section to be 4mm2?	Sizing shall be done so that losses are kept to less than 1.5% as specified in Section 6.
58			Maximum allowable voltage drop to be 2% for DC and 3% for AC?	1.5% for DC, 2.5% for AC
59			Where will the battery banks be installed?	They shall be housed in ISO-certified container located within powerhouse premises.
60			Should all generators be replaced? Or only the ones indicated in the tables?	No diesel generators are required to be replaced under this project.
61			In Lot 1, there is a table in each site listing the generators. Some of them are indicated to be changed, please check below example: Kindly confirm that no generators shall be replaced in lot 1.	Generator replacement is not required.
62			In the pre-bid meeting, you mentioned that only lot 2 includes supply of generators. Please indicate where it is	Lot 2 does not include supply of generators (typical drawings show only the existing generators)

			mentioned along with the ratings. Is a fuel tank needed with replaced generators?	
63			The generators to be with sound proof?	Not required.
64			In section 6, some of the metal sheet specs were mentioned, kindly provide the missing specs as per the below. Also please advise if metal sheet is trapezoidal or sandwich panel.	They are trapezoidal. Actual measurements of roofing sheets will be done by winning bidder at a later stage.
65			What is the type of land in each ground-mount site?	Coral sand.
66			Should we stick to the capacity given for each area in each island? Can we change them but keeping the same total?	Yes total should be maintained.
67			Can the connection point of the PV systems be in the same building where applicable?	Connection point shall be as per technical requirements in section 6 and the attached drawings.
68			What is the maximum allowed shading percentage?	Shading is not considered at this stage. For purposes of bid submission, you may consider 0% shading.
69			DC Cables shall be designed to have losses less than 1.5 % for the whole DC cabling system. What do you mean by losses? Voltage drop or power losses?	Power loss.
70			Should an electrical room be built for areas where PV panels are ground-	Inverters and totalizers shall be shaded and protected from the elements. Design is up to bidder subject to

			mounted? If not, please indicate where totalizers might be installed	meeting the requirement.
71			In the bidding documents you mentioned some roofs and some areas (ground) to implement the systems. Please refer to the below table as an example. In this table, you mentioned the proposed capacity for the roofs but did not mention any for the areas.	Please refer to section 6 under each island specification for areas. If area is not specified, then that area/roof will not be considered.
72			Are they an alternative in case the roofs cannot be used? In this case, can we install small ground mount systems or we have to do an elevated structure?	For the purposes of bid submission you shall consider that all roofs and areas indicated will be available and can be used.
73			Time Schedule: the requirement is 300 days of 'time to complete' in SCC document. It is in conflict with 360 days in Section 3 – EQC. Which one shall be considered?	Please consider 360 days.
74			The submission date: Due to the ongoing pandemic, the international carriers are not perform efficiently. Would you consider to extend bid submission deadline according to the actual conditions?	No extensions is provided at this time.
75			Please provide adequate information of the structure of the suggested roof top in	This will be done at a later stage by the winning bidder after detailed survey. For purposes of bid

			the islands, in order to calculate the bearing capacity of it.	submission please consider that all suggested roof tops are able to bear the weight.
76			Regarding the Section 6-4.2.3.3 Ground mounted installation: As there's no specific requirements on the free field mounting structure, there are several structure types on the market, the cost is related with the types and height of the structure, so here we request to clarify the free field mounting structure drawing for our reference, and the exact height of the structure.	Minimum elevation 10 ft with concrete foundations and tie beams. Structure shall be galvanized steel with trapezoidal roofing sheets.
77			In previous feasibility study there are 5.7MW diesel generator need to added, right now only for island in LOT-2 need new diesel generator is it correct?	No diesel generators required for either Lot 1 or Lot 2.
78			Following Question 1, the island No. 02, it list four generator but in description it says three generator, shall we add one more new or there are four generator already?	No diesel generators are required.
79			For qualification, icemaker plant, if our subcontractor has reference does it qualify us? Or the ice making who have reference must be in the Joint venture?	Either the main bidder or a joint venture company should meet the requirement.

80			System requires the overload capability of the inverter must be at least 150% of its nominal power for at least 30 seconds, but normally in practice we can do is overload 120% but for 60s, is it acceptable by employer?	No, the battery inverters shall meet the stated requirement of 150% overload capacity for 30 seconds.
81			System requires: The inverter must be able to provide sufficient short circuit power to the system. The required currents must be in accordance with the grid protection concept and the grid study. To our experiences, if the short circuit power shall not be too long, otherwise it create problems, how long shall we consider?	The proposed solar PV plants shall contribute to overall power system stability by providing also immunity towards dynamic voltage changes. The PV generating plant shall be capable to stay connected to the low voltage network as long as the voltage at the point of connection remains above the voltage-time diagram of figure bellow. The voltage is relative to the nominal voltage at the point of connection. The smallest phase to phase voltage shall be evaluated. The compliance to such Low-Voltage Ride through (LVRT) requirement shall apply to all equipment within a solar PV generating plant that might cause its disconnection. After the voltage returned to the voltage range, the pre-disturbance operating conditions (active & reactive power) shall be resumed as fast as possible and with a tolerance of ±10% of the generating plant rated power.

				
82			Project requires The Bidder shall be available on site for the repair or exchange of parts within 72hours, can we extend to 7days, since we are bidder from China, 3 days it too short for us.	No. The contractor shall maintain presence in the country within the O & M period so that the issues can be attended in a timely manner as stated in tender.
83			Are we free to choose the solar panel capacity? In the tender books it suggests 260wp, it is last generation product, not easy to purchase at this time.	Yes, you maybe chose any size above 260 Wp.
84			Will the payment via Letter of Credit? And what will be the payment schedule?	Direct payment on a progressive basis as per schedule in tender.
85	Plant 1S2E Section 3 _ EQC	**2.4.3 Experience in Key Activities** Design, supply, installation, supervision, commissioning of PV- Diesel-Battery hybrid systems which include energy management system (to manage grid stability in case of variation in PV output	Request to change to: Design, supply, installation, supervision, commissioning of PV- Diesel hybrid system or PV-Battery Hybrid system which include energy management system (to manage grid stability in case of variation in PV output and/or excess PV power production during periods of high radiation and low demand): Minimum size of PV: 100kWp	Cannot be considered

		and/or excess PV power production during periods of high radiation and low demand): Minimum size of PV: 100kWp Minimum size of battery: 50 kWh Minimum size of Diesel : 50kW – at least 2 completed projects	Minimum size of battery: 50 kWh Minimum size of Diesel : 50kW – at least 2 completed projects	
86		**2.4.3 Experience in Key Activities** O&M services for PV/Diesel/Battery hybrid systems which include energy management system (to manage grid stability in case of variation in PV output and/or excess PV power production during periods of high radiation and low demand): Minimum size of PV: 100kWp Minimum size of battery: 50 kWh Minimum size of Diesel : 50kW – at least 1 completed projects	Request to remove this requirement, as the EPC contractor normally does not execute O&M service, which is commonly subcontracted to speciaized O&M company.	Cannot be considered
87		**2.4.4 Experience in Key Activities** Design, supply, installation, supervision, commissioning	Request to change to: Design, supply, installation, supervision, commissioning of PV- Diesel hybrid system or PV-Battery Hybrid system	Cannot be considered

		of PV- Diesel-Battery hybrid systems which include energy management system (to manage grid stability in case of variation in PV output and/or excess PV power production during periods of high radiation and low demand): Minimum size of PV: 100kWp Minimum size of battery: 50 kWh Minimum size of Diesel : 50kW – at least 2 completed projects	which include energy management system (to manage grid stability in case of variation in PV output and/or excess PV power production during periods of high radiation and low demand): Minimum size of PV: 100kWp Minimum size of battery: 50 kWh Minimum size of Diesel : 50kW – at least 2 completed projects	
88		**2.4.4 Experience in Key Activities** O&M services for PV/Diesel/Battery hybrid systems which include energy management system (to manage grid stability in case of variation in PV output and/or excess PV power production during periods of high radiation and low demand): Minimum size of PV: 100kWp Minimum size of battery: 50 kWh Minimum	Request to remove this requirement, as the EPC contractor normally does not execute O&M service, which is commonly subcontracted to specialized O&M company.	Cannot be considered

		size of Diesel : 50kW – at least 1 completed projects		
89		**2.4.4 Experience in Key Activities** Design, supply, implementation, commissioning of ice making plant of Minimum size 15 T. At Least 3 completed projects	Request to remove this requirement, or make it as an requirement to the subcontractor or supplier	Cannot be considered
90		**2.4.4 Experience in Key Activities** O&M Services for ice making plant of Minimum size 15 T. At Least 3 completed projects	Request to remove this requirement, as the EPC contractor normally does not execute O&M service, which is commonly subcontracted to specialized O&M company.	Cannot be considered
91	Plant 1S2E Section 6 _ ERQ	**4.5 Ice Making Plant** **4.5.2 Technical specifications** It should meet ENERGY STAR requirements and provide proof of certification	Request to remove this requirement	Cannot be considered
92	Section 2-BDS ITB 11.2 (k)	The Bidder shall submit with its Technical Bid the following additional documents: Tax Registration Certificate.	We understand the Tax Registration Certificate is not required be issued in Maldives, please Confirm.	In case of companies who are already registered in the Maldives who submit the bid shall submit the Tax Registration Certificate issued from MIRA along with the proposal. In case of companies who are not registered in the Maldives they have to submit Tax Registration certificate along with other registration documents only if they won the bid.

93	Section 8 _ SCC 30.1	The multiplier of the Contract Price is: 1.1	You are kindly requested to revise and accept the multiplier of the Contract Price as 1.	Cannot be revised.
94	Section 9 _ COF Terms of Payment		We understand the payment for Plant and Mandatory Spare Parts and Installation and Other Services will be made for each island respectively once the requirement is fulfilled. Please confirm.	Payment will done on pro rata basis.
95	Section 9 _ COF Terms of Payment		We understand Completion Certificate Operational Acceptance Certificate and will be issued for each island respectively once the requirement is fulfilled. Please confirm.	Completion and Acceptance certificate will be issued for the whole project once all the requirements under the contract is completed and accepted by the client.
96	Section 9 _ COF 4.4 Limitation of Liability	Subject to para. 4.3 above, the Contractor's aggregate liability to pay liquidated damages for failure to attain the functional guarantees shall not exceed twenty percent (20 %) of the Contract price	We understand the Contractor will be liable to the newly installed Diesel Generator which is supplied by the Contractor only. Please confirm.	Under this assignment there is no requirement to supply and install Diesel Generators. However, the bidder will be responsible for connecting the existing Diesel Generator to the hybrid system including PV system, Energy Management system, Battery system, LVBD connections and fuel system.
97	Section6 – Employer's Requirements, P 6-100 3.4 Summary P 6-106 3.7 N01 Buruni	The rated power for N01 PV Plant is listed as 100kWp, and Battery Capacity (kW / kWh) 100 / 50; PV size (kWp): 295kWp, Battery (kW / kWh) 100/100.	Clarify the rated power of PV to be installed and Battery Capacity.	PV size (kWp): 295kWp, Battery (kW / kWh) 100/100. (Please note that N01 has an existing 100kWp PV system with 50kWh of battery system)

	Island			
98	Section6 – Employer's Requirements, P 6-100 3.4 Summary Section 6 – Employer's Requirements, P 6-145 4.5.2 Technical specifications	Store Room Capacity (Tons / kW) for A10, N01, U02, and N02 is 35, 15, 35 and 35T/day Ice Storage Room Capacity Up to 8 Tonnes (1 unit) and 23 Tonnes (3 units) with stainless steel or polyethylene interior for easy cleaning and should resist scratches and scuffs from ice scoops	You are kindly to clarify the Store Room Capacity and store time for each island.	Store Room Capacity: A10 – 35Tons N01 – 15Tons U02 – 35Tons N02 – 35Tons Plant capacity: A10 – 15Tons/day N01 – 5Tons/day U02 – 15Tons/day N02 – 15Tons/day
99	2.7.4.2 Grid infrastructure upgrade P6-28	The Contractor shall implement the grid upgrade works in Vilufushi Island in line with drawings listed below…	You are kindly requested to provide the following drawing for each island as listed in tender document: G409-THAA-N02(N2-N13)-SLD-1(01 and 02)	The drawing files are separately uploaded with Tender Documents.
100	Section6 – Employer's Requirements P6-26 2.7.2 Diesel Generator	Diesel generator Controller: Planned to install DSE8810	We understand the controller for all the existing Diesel Generator are planned to be installed by employer prior to commencement of this project, Please confirm.	Please refer to the SLDs provided. For all new LVDBs the contractor shall supply the controllers with LVDBs.
101	Section6 – Employer's Requirements P6-26 2.7.2 Diesel		We understand all the damaged diesel generator will be repaired by the employer prior to commencement of the project, please confirm	Yes. Damaged diesel generators will be repaired by the employer prior to the installation.

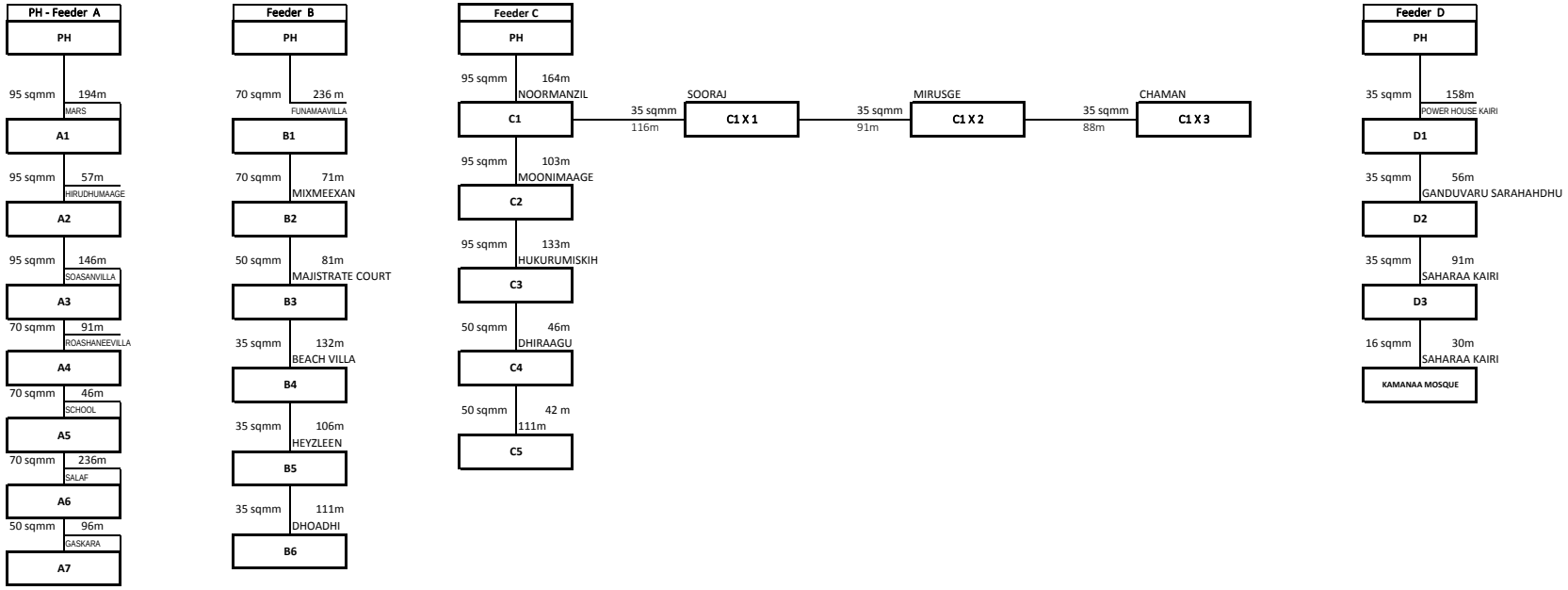
	Generator		In case that repaired by Contractor, you are kindly requested to provide the detail description of defect.	
102	Section6 – Employer's Requirements P6-26	The Contractor shall however be responsible of checking the suitability of the roofs to install PV plants,	In case that the roof is damaged or not strong enough to install PV plant, you are requested to repair/replace the roof prior to PV installation.	The winning bidder is required to conduct a detailed assessment of the roofs and notify the employer roof condition. If needed the employer will do the needful.
103	Section6 – Employer's Requirements P6-51 2.11.2 Diesel Generators	Diesel Gen. 2: (radiator too small) Diesel Gen. 3: (water leakage and radiator issues)	Please provide the detailed description of defect in case of overhauled by Contractor, or otherwise be replaced by new generator.	This is out of bidders' scope.
104			You are kindly requested to indicate the specification of diesel generator required to be newly installed for each island. Also please specify the diesel generators which need to be replaced or repaired by the Contractor.	Not included in the scope of this assignment.
105	Section6 – Employer's Requirements P6-64 2.13.2 Diesel Generators	Diesel Gen. 2 & 3: Generators are in bad shape as maintenance was not carried out on time	Please provide the detailed description of defect in case of overhauled by Contractor, or Otherwise be replaced by new generator.	This is out of bidders' scope.

106	Section 6 _ ERQ 2.4.1 Type A Hybrid system: PV-Diesel	At least one Diesel will be always synchronized. Additionally, a data communication cable between the inverters and the Hybrid System Controller shall be installed for command and SCADA purposes.	Please confirm the control system of the existing diesel generating units could receive the related information of the PV/battery system and could respond accordingly. Based on our information, DSE 8810 is not able to synchronize, it is required to replace all DSE8810 controller to realize synchronization among PV and Diesel Generator and BESS	The bidder shall propose a control system which will work as per the requirements mentioned in Technical Specification.
107	Section 6 _ ERQ 4.7.2 Applicable Standards	The latest editions of the British Standards as per Approved Document for Maldives Building Code Structure Clause B1 and Durability Clause B2 are valid for the construction of structures. The list does not claim to be complete but serves as a minimum framework for all works.	You are kindly requested to accept related equivalent Chinese standards and codes.	Cannot be considered.
108	Section 6 - ERQ 4.7.7.2.2 Design and Construction	Buildings and structures must be designed for seismic loads. SBC shall be followed.	Please indicate the seismic ground motion parameters	Its bidder's responsibility to identify the parameters which suit the nature of the Maldives.
109	Section 3 – EQC 3-10 2.4.3	For the above or other contracts executed during the period stipulated in 2.4.1	We understand the Contractor who can meet any of the following key activities requirement is qualified, please confirm.	Please refer to section 3.

	Experience in Key Activities	above, a minimum experience in the following key activities:……..		
110	Section 8_ SCC 8-2 8.2 Time for commencement and completion	The Time for Completion of the whole of the Facilities shall be 300 days from the Effective Date as Described in the Contract Agreement.	The Time for Completion is too short, it is recommended to accept 15 months for Lot1, and 12 months for Lot 2 respectively, please confirm.	Cannot be considered. Time for Completion for the whole facility shall be 360 days.
111			It is strongly recommended to accept the following issue be implemented for each island separately: I.Quotation, II.Liquidated damages, III.Completion Time Guarantee, IV.Payment, V .issuance of Completion Certificate and Operational Acceptance Certificate.	Cannot be considered.

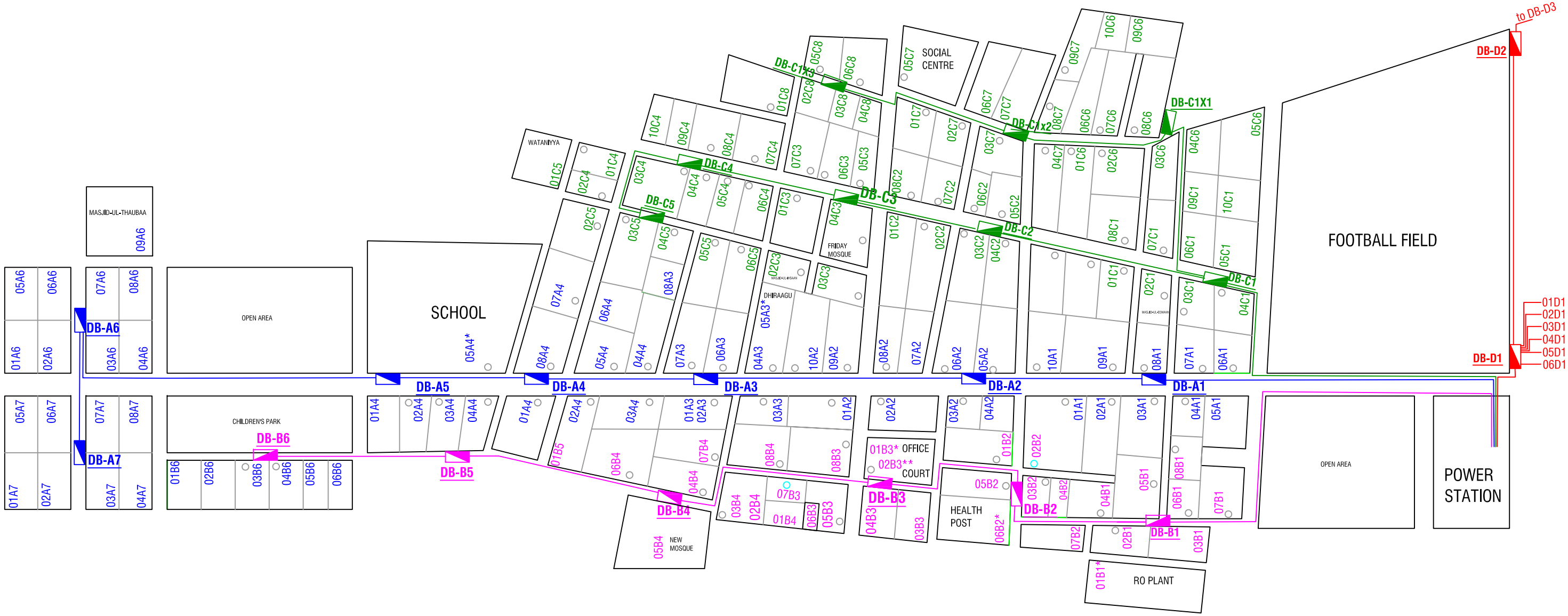
TH BURUNI Branch
Fenaka Corporation Limited

TH. BURUNI LV Cable Network (Power House LV Feeder) Schematic Diagram



	CABLE DETAILS					DISTRIBUTION BOX DETAILS					
FEEDER NO	CABLE SECTION		LENGTH METERS	Cable Size (sq.mm)	CABLE TYPE	BRAND	SIZE	Breaker Size (A)	Number circuit	LOCATION (house/building)	GPS Location
FEEDER A	PH	A1	194	95	Under ground power cable 600/1000vV, 4C x 95 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	12	MARS	2.55851/73.10867
	A1	A2	57	95	Under ground power cable 600/1000vV, 4C x 95 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	12	HIRUDHUMAAGE	2.55846/73.10873
	A2	A3	146	95	Under ground power cable 600/1000vV, 4C x 95 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	12	SOASANVILLA	2.55889/73.10673
	A3	A4	91	70	Under ground power cable 600/1000vV, 4C x 70 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	12	ROASHANEEVILLA	2.55888/73.10565
	A4	A5	46	70	Under ground power cable 600/1000vV, 4C x 70 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	12	SCHOOL	2.55902/73.10546
	A5	A6	236	70	Under ground power cable 600/1000vV, 4C x 70 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	12	SALAF	2.55944/73.10428
	A6	A7	96	50	Under ground power cable 600/1000vV, 4C x 50 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	12	GASKARA	2.55895/73.10414
FEEDER B	PH	B1	236	70	Under ground power cable 600/1000vV, 4C x 70 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	FUNAMAAVILLA	2.55798/73.10851
	B1	B2	71	70	Under ground power cable 600/1000vV, 4C x 70 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	MIXMEEXAN	2.55813/73.1081
	B2	B3	81	50	Under ground power cable 600/1000vV, 4C x 50 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	MAGISTRATE COURT	2.55804/73.10732
	B3	B4	132	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	BEACH VILLA	2.5583/73.10632
	B4	B5	106	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	HEYZLEEN	2..55865/73.10574
	B5	B6	111	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	DHOADHI	2.55882/73.10497
	PH	C1	164	95	Under ground power cable 600/1000vV, 4C x 95 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	NOOR MANZIL	2.55883/72.10902

FEEDER C	C1	C2	103	95	Under ground power cable 600/1000vV, 4C x 95 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	MOONIMAAGE	2.5592/73.10813
	C2	C3	133	95	Under ground power cable 600/1000vV, 4C x 95 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	HUKURU MOSQUE	2.55938/73.10744
	C3	C4	46	50	Under ground power cable 600/1000vV, 4C x 50 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	DHIRAAGU	2.55985/73.10684
	C4	C5	111	50	Under ground power cable 600/1000vV, 4C x 50 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	DHEENUGE	2.55937/73.10681
	C1	C1X1	116	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	SOORAJ	2.55947/73.10899
	C1X1	C1X2	91	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	MIRUSGE	2.55962/73.10825
	C1	C1X3	88	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	CHAMAN	2.55994/73.10755
	PH	D1	158	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	POWERHOUSE	2.55834/73.10996
FEEDER D	D1	D2	56	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	GANDUVARU SARAHAHI	2.55933/73.101104
	D2	D3	91	35	Under ground power cable 600/1000vV, 4C x35 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150	63A	18	SAHARAA KAIRI	2.55969/73.11034
	D3	KAMANAA MOSQUE	30	16	Under ground power cable 600/1000vV, 4C x16 mm2 CU/XLPE/SWA/PVC	KIK	400X600X150			KAMANAA MOSQUE	



LEGEND

	Underground Electric Power Cables route.
	Distribution Box. A different color is used for each feeder.
DB-B1	Distribution Box Numbering i.e. "DB" distribution box, "B" Feeder Number, "1" Distribution Box Number
04B1	Consumer Numbering "04" Consumer Number 04, "B1" distribution box number. "*" denotes special (high) load Customers.