

PROJECT: VARIOUS PROJECTS AT MAIN OFFICE POWER SUBSTATION 2

QUERIES/CLARIFICATIONS RAISED DURING THE PRE-BID CONFERENCE:

No.	Queries/Clarifications	TWG/BAC Reply
The following issues/clarifications were raised during the Pre-Bid Conference:		
1	Is this a one-time payment only for the whole project and no downpayment or progress billing?	Yes. One-time payment upon issuance of certificate of completion and acceptance by EFMD.
2	What Meralco Certification is needed for the power transformer? Is it okay to use brands that were already used by Meralco?	The bidder must submit an In-house certification confirming that it has been properly communicated with the MERALCO Distribution Utility (DU) that the proposed transformers is compliant with their standard parameters. Acceptable if used brands is compliant with the minimum requirements/ technical specifications.
3	Can we provide a "type tested" panel but locally assembled?	Yes, locally assembled "Type Tested" is acceptable. The Bidder must submit a copy of licensed agreement between the fabrication plant and original manufacturer where the fabricator has been authorized by their original manufacturer to fabricate locally a type tested design.
4	Can we propose/provide an alternative methodology that diverges from the stated TOR which will be finalized after the formal site inspection.	Yes, you can recommend/ suggest alternative methodology after the site inspection.
5	Do we need to submit a formal certificate of site inspection?	No.
6	Concerning the transformer, is it inside the switch gear or does it have its enclosure?	The transformer is inside the substation with its own housing enclosure, but it is outside of Low Voltage Switch Gear (LVSG).
7	Which are we going to follow, what will be its protection? If the transformer is located outside, it	IP 54 with Built –in exhaust Fan and Automatic Controller. This amends technical specification of the BTD under Item 3 - 1.5MVA Power Transformer at the Main Building for 1.h. The transformer has its own housing

	must be enclosed.	enclosure.
8	Concerning the transformer, it states that it should comply with Meralco distribution utility. Should we request a certificate from Meralco after the installation?	Yes, If necessary for the restoration of Electrical Power.
9	Do we have to secure certification from Meralco that this transformer complies with their requirement?	No need to request certification from MERALCO. The bidder must submit an In-house certification confirming that it has been properly communicated with the MERALCO Distribution Utility (DU) that the proposed transformers is within their standard parameters.
10	About the panel, can we use a locally manufactured panel, and the components are type tested? Who will provide us with the certificate for the type testing of the components?	Yes. From local fabrication plant. The Bidder must submit a copy of licensed agreement between the fabrication plant and original manufacturer where the fabricator has been authorized by their original manufacturer to fabricate locally a type tested design.
11	Will you be sending clear instructions regarding type testing?	Type Tested Design only. The Bidder must submit a copy of licensed agreement between the fabrication plant and original manufacturer where the fabricator has been authorized by their original manufacturer to fabricate locally a type tested design.
12	May we request a single line diagram (SLD)?	Yes, please see attached " <u>Annex B</u> ".
13	If we are to accommodate local fabricators for the LVSG, the origin is just here. How about the transformer, will it also have a Factory Acceptance Test (FAT)? About the generator, is it required to use a genset or will a transformer do?	Yes. We maintain our requirements (Generator Set 750KVA/ 600KW min., 480V, 3Phase, 60Hz).
14	Single Largest Completed Contract (SLCC) For the non-disclosure agreement (NDA), can you elaborate?	Contracts with NDA do not allow you to disclose information regarding the project. Thus, we could not validate the SLCC.
15	Will there be an additional document that we need to attach?	None, you will only submit the list of SLCC, and supporting documents – a copy of the contract and certificate

		of completion.
16	About the type-tested equipment, may we suggest that this equipment must be fully type-tested and not just the component itself? Since your requirement is type-tested equipment.	Only Type Tested Design. The Bidder must submit a copy of licensed agreement between the fabrication plant and original manufacturer where the fabricator has been authorized by their original manufacturer to fabricate locally a type tested design.
17	With the VCB package, you are requiring an enclosure. Does it mean that it should be a complete enclosed VCB? It is an enclosure not just a replacement of VCB?	Yes. Total replacement of VCB with housing enclosure is the requirement.
18	Regarding the transformer, it doesn't have an ingress protection. Is it placed in a covered "EE" room or open air?	It is covered but the front side is open.
19	Is there a possibility that rain could drench the transformer?	None.
20	For the THHN requirement, are we to provide the wires for the temporary LVSG?	Yes.
21	Then, after the project, it will be turned over to SSS including the LVSG?	Yes.
22	Can we bid on a certain lined item only or the entire project?	No, the bid is for the entire project.
23	About this project, it says procurement of goods, but we have a replacement, so this is no longer considered as goods, right?	This project is under the category of goods and services.
24	With regards to type testing, is it the LVSG only that needs to be type-tested? And the others don't need to be type-tested? Can we also suggest/recommend using a transformer rather than a genset?	Yes, only the LVSG. No.
25	Will the PCAB license be required from the bidders? This is a big project this may be considered as "goods" and PCAB is not required. However, SSS will be more assured if the bidder is licensed with PCAB.	No.
26	The one-time payment is 100 percent after completion of the project, right?	Yes, 100% after the issuance of certificate of completion and acceptance by EFMD.
27	May we be clarified on this, "The Procuring Entity is allowed to	One-time payment only.

	determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations.	
28	When can we conduct the site inspection?	Anytime before the submission and opening of bids.

WRITTEN QUERIES:

	Queries/Clarifications	TWG/BAC Reply
GRUNES ENERGIE SYSTEMS CORPORATION		
1	Term of Reference, is there a dismantling included lead time.	Yes, included in the one hundred fifty (150) Calendar Days.
DANITECH POWER SYSTEMS, INC.		
1	<p>SWITCHGEAR (LVSG and MVSG):</p> <p>a. We would like to request your system's Single Line Diagram (SLD) where we can base our reference for estimates.</p> <p>b. Since the switchgear description and composition are broken down per item (reflected in your Bill of Quantities), may we know which of those items are for Line 1 and for Line 2 that is connected by a Tie Breaker in a double-ended transformers?</p> <p>c. Regarding your specification of TYPE TESTED for the switchgears, may we know if your requirement is a fully certified Type Tested Switchgears where certification is from a reputable testing laboratory abroad (Since as far as we know, there is no certifying body for Type Tested Switchgears here in the Philippines)? Or the locally assembled (Manufactured in the Country in accordance to the international standard), it is the Panel only that is Locally Manufactured but the Circuit Breakers and its component are manufactured by the respective circuit breaker makers worldwide. Type Tested Switchgears are typically manufactured as one assembly, and it will be installed to the site as a whole since it is Type Tested.</p>	<p>Please see attached "<u>Annex B</u>".</p> <p>Please see attached "<u>Annex B</u>".</p> <p>It is not fully certified Type Tested switchgear but only a type tested design where the fabricator has been authorized by their original manufacturer through a licensed agreement to fabricate locally a type tested design.</p>
2	Regarding the RENTAL OF	

<p>GENERATORS:</p> <p>a. This is a suggestion for convenience and environmental factor of your temporary power system while the project execution is on-going. May we suggest renting a Transformer instead of Generator sets? Will you consider utilizing a transformer with the same or higher capacity of your requirement? We have conceptualized your temporary system by providing a transformer unit (2 x 1500 kVA) as service units and tap to your existing (MERALCO) incoming feeder and connected to the temporary switchgears going to your loads. Generator sets are Noisy and emits smoke during its operation while using a transformer will give you a stable power supply and eco-friendly.</p> <p>Again, pardon us with your suggestion and we mean no offense with this, we are just offering another option if you can consider.</p> <p>b. May we know if who will shoulder the fuel cost during operation and if how long the generator will run in a day or this is continues 24/7 until the new transformer is energized?</p>	<p>We maintain our requirements (Generator Set 750KVA/ 600KW min., 480V, 3Phase, 60Hz).</p> <p>The cost for fuel will be shouldered by the contractor for forty-five (45) calendar days 24/7 or until the new transformer is energized and the system is fully operational.</p>
KEMPAL CONSTRUCTION AND SUPPLY CORPORATION	
<p>1 Please provide us the single line diagram and the dimensions of the area where the LV Switchgear and Associated Electrical Equipment will be located and installed.</p> <p>This will enable us to have an accurate space planning for the Electrical Equipment</p>	<p>Please see attached "<u>Annex B</u>" & "<u>Annex C</u>".</p>

<p>2</p>	<p>For item IV – 2 (page 49 of Technical Specifications) “Assembly of temporary LVSG with the breakers stated”, this is also related to the above item-2.</p> <p>a) Does it have to be the same specifications as that of the permanent switchgear? If so, this will add to the project duration as the same type of assembly might take at least 2 to 3 months to manufacture.</p> <table border="1" data-bbox="349 710 755 971"> <caption>Temporary LVSG Assembly with the breakers:</caption> <thead> <tr> <th>BANK A</th> <th>BANK B</th> </tr> </thead> <tbody> <tr> <td>Main 1 : 2000A</td> <td>Main 2 : 2000A</td> </tr> <tr> <td>FB-A : 500A</td> <td>FB-F : 250A</td> </tr> <tr> <td>FB-B : 500A</td> <td>FB-G : 500A</td> </tr> <tr> <td>FB-C : 1000A</td> <td>FB-H : 1000A</td> </tr> <tr> <td>FB-D : 250A</td> <td>FB-I : 500A</td> </tr> <tr> <td>FB-E : 250A</td> <td>TCB : 1000A</td> </tr> </tbody> </table> <p>“ 480V, 3 Phase complete with common busbar & termination lugs and other accessories/consumables) – extracted from page 39, item 4/II/1.a of the Bid Documents.</p> <p>b) For, the above configuration of temporary LVSG Assembly, is it a redundant configuration? If so, we may need a bus coupler (tie breaker) for the temporary LVSG. Please confirm.</p> <p>c) If possible, can we have the list of “Dedicated Loads” for the outgoing circuits of the temporary LVSG?</p>	BANK A	BANK B	Main 1 : 2000A	Main 2 : 2000A	FB-A : 500A	FB-F : 250A	FB-B : 500A	FB-G : 500A	FB-C : 1000A	FB-H : 1000A	FB-D : 250A	FB-I : 500A	FB-E : 250A	TCB : 1000A	<p>No, it does not need to be the same as the permanent LVSG as long as the rated capacity of the circuit breaker is the same and the assembly conforms to Philippine Electrical Code (PEC) standard.</p> <p>Yes.</p> <p>The dedicated loads are reflected in the SLD. Please see attached “Annex B”.</p>
BANK A	BANK B															
Main 1 : 2000A	Main 2 : 2000A															
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FB-D : 250A	FB-I : 500A															
FB-E : 250A	TCB : 1000A															
<p>3</p>	<p>For item IV – 7 (page 49 of Technical Specifications) “Incidental Materials, works and services necessary for the completion of the temporary facility”, this is also related to the above item-2.</p> <p>Please provide us a sketch / drawing, showing the dimensions of the concerned area where the permanent and temporary facilities will be located, so we can recommend a proper space planning of the electrical equipment (both temporary and permanent).</p>	<p>Please see attached “Annex C”.</p>														
<p>4</p>	<p>Can we conduct inspection of the existing incoming 34.5 kV XLPE</p>	<p>Yes.</p>														

	cables?					
5	<p>Can we extend or change the duration of the project to 365 days (1 year)?</p> <p>May we request for the projected schedule that you have prepared (if any) so we can adopt with our proposed schedule for the project.</p> <p>The following are some of the reasons that might affect the project duration:</p> <ul style="list-style-type: none"> a.) Manufacturing of the LV Switchgear and associated electrical equipment - 3 months (90 calendar days). b.) THHN 90 deg C Wires – 30 to 45 working days for production period, as per latest quotation from our supplier. Converting this to calendar days using the formula Calendar days = Working days x 7/n, where n = working days per week, assuming the cable manufacturer's working days is 5, then this will be 42 to 57 calendar days. <p>Manufacturing of temporary LV switchgear – considering the query no. 3b of this query list, may take at least 2 months to manufacture (if brand new)</p>	<p>No.</p> <table border="1" data-bbox="824 294 1321 558"> <tr> <td data-bbox="824 294 1073 451">Fabrication/production and Delivery</td> <td data-bbox="1073 294 1321 451">105 Calendar Days</td> </tr> <tr> <td data-bbox="824 451 1073 558">Dismantling and Installation</td> <td data-bbox="1073 451 1321 558">45 Calendar Days</td> </tr> </table>	Fabrication/production and Delivery	105 Calendar Days	Dismantling and Installation	45 Calendar Days
Fabrication/production and Delivery	105 Calendar Days					
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6	<p>It is "impossible" to deliver the project with the project duration of 150 calendar days and ABC (Approved Budget Cost) of PHP 55,243,346.00. Based on our "estimated budgetary estimate" and "project schedule calculations", we would recommend the following:</p> <ul style="list-style-type: none"> a.) Total Cost of Project: PHP 100,000.00(One Hundred Million Pesos) b.) Project Duration: 365 calendar days (1 year) <p>Above is based on the following sequence of scope of works:</p> <ul style="list-style-type: none"> 1.) Final Site Survey / Inspection 2.) Procurement of Temporary LVSG (please confirm if we need a bus coupler for Bank A and Bank B) 3.) Rental of 750 kVA Generators 4.) Procurement of the Main Electrical Equipment that will have various suppliers. 	<p>We maintain our requirements.</p>				

	<ul style="list-style-type: none"> - VCB (Vacuum Circuit Breakers) - Transformers - Permanent LV Switchgear - ATS (Automatic Transfer Switches) - Related materials and accessories for the above electrical equipment - THHN Cables referred to on the Technical Specifications and scope of works. 	
7	With reference to the above queries, we would like to request for an extension of the schedule for the submission of bid.	Submission and Opening of Bids is scheduled on 21 March 2024.

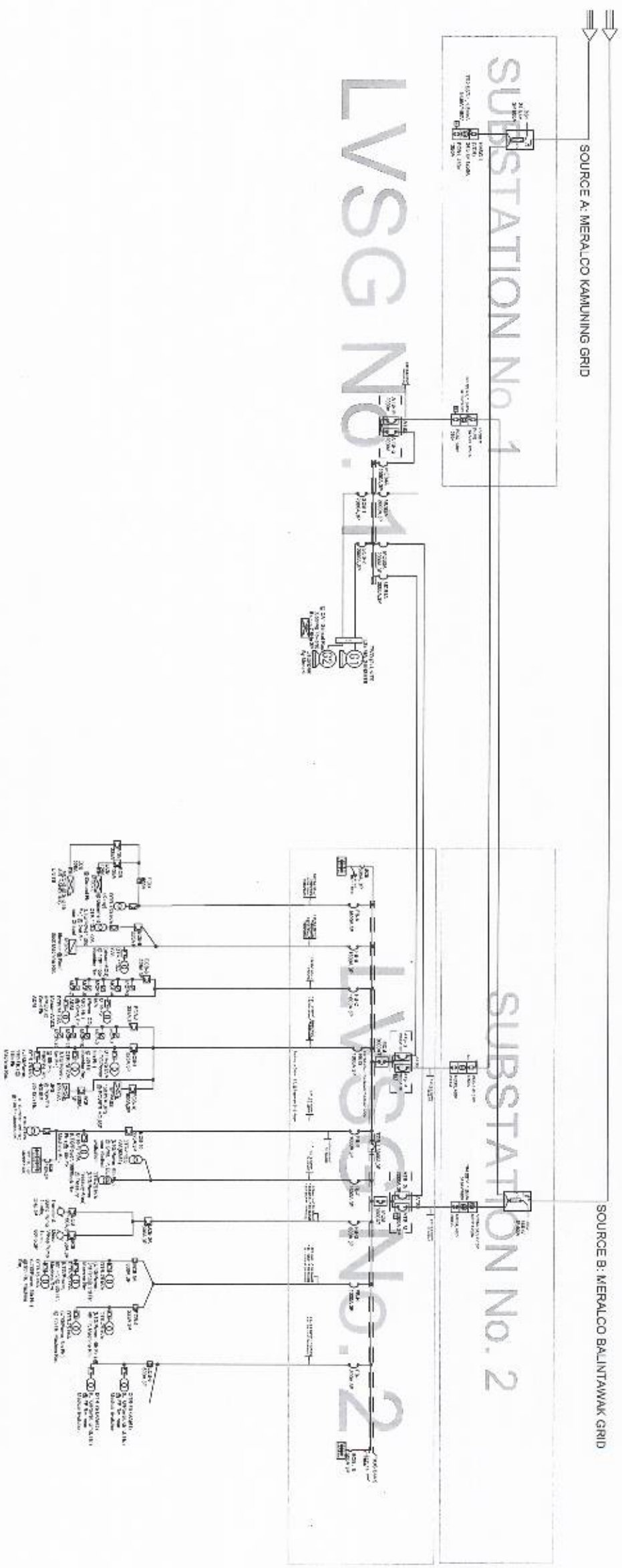
Additional Amendment in Section VII. Technical Specifications of the BTD

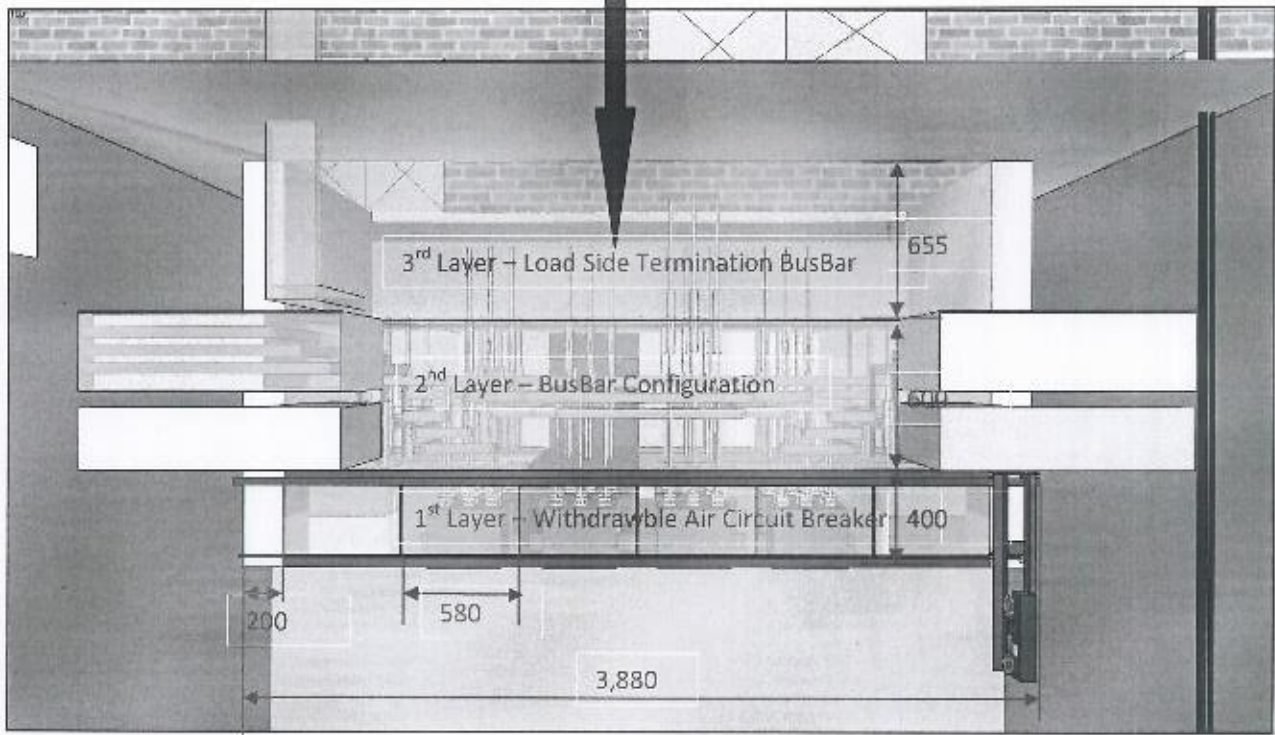
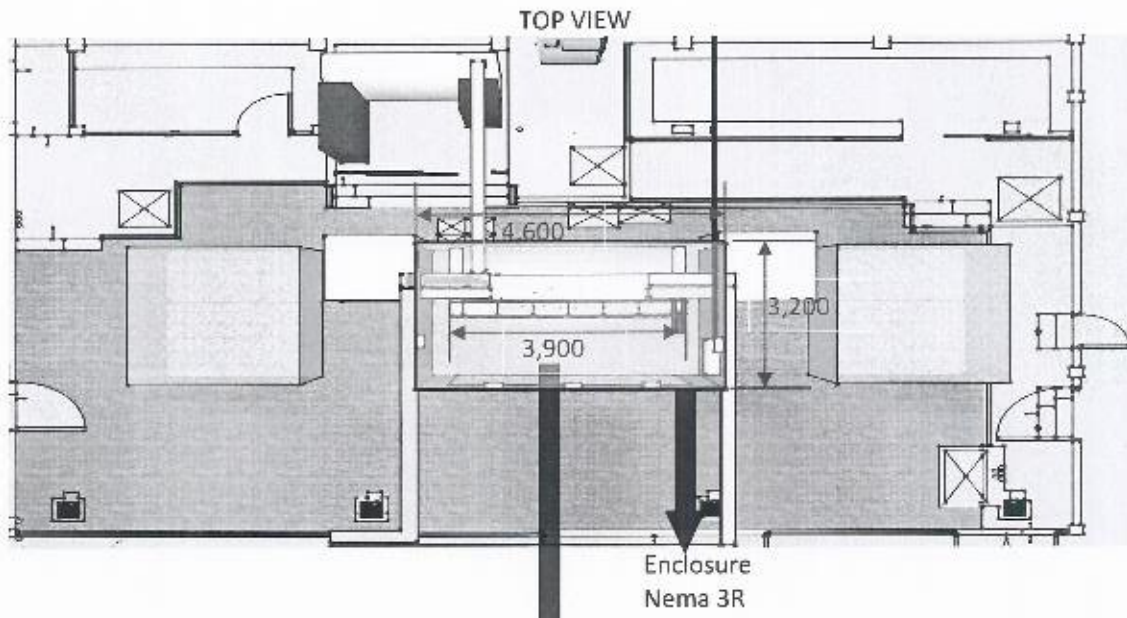
ITEM 1: REPLACEMENT LOW VOLTAGE SWITCH GEAR (LVSG) AT SUBSTATION 2

Specification	
2.a	<p>Free Standing LVSG Enclosure Rated 480V, 3Phase Manufacturer/Fabrication must have base reference to the Type Tested Design and above minimum standard distance of Busbar Configuration in Nema-3R with elevated platform in six (6) inches minimum with rail mounted circuit breaker electric lifting device.</p> <p>The Bidder must submit a copy of licensed agreement between the fabrication plant and original manufacturer where the fabricator has been authorized by their original manufacturer to fabricate locally a type tested design.</p> <p>This amends technical specification of the BTD under Item 1: Replacement Low Voltage Switch Gear (LVSG) At Substation 2 for 2.a.</p>

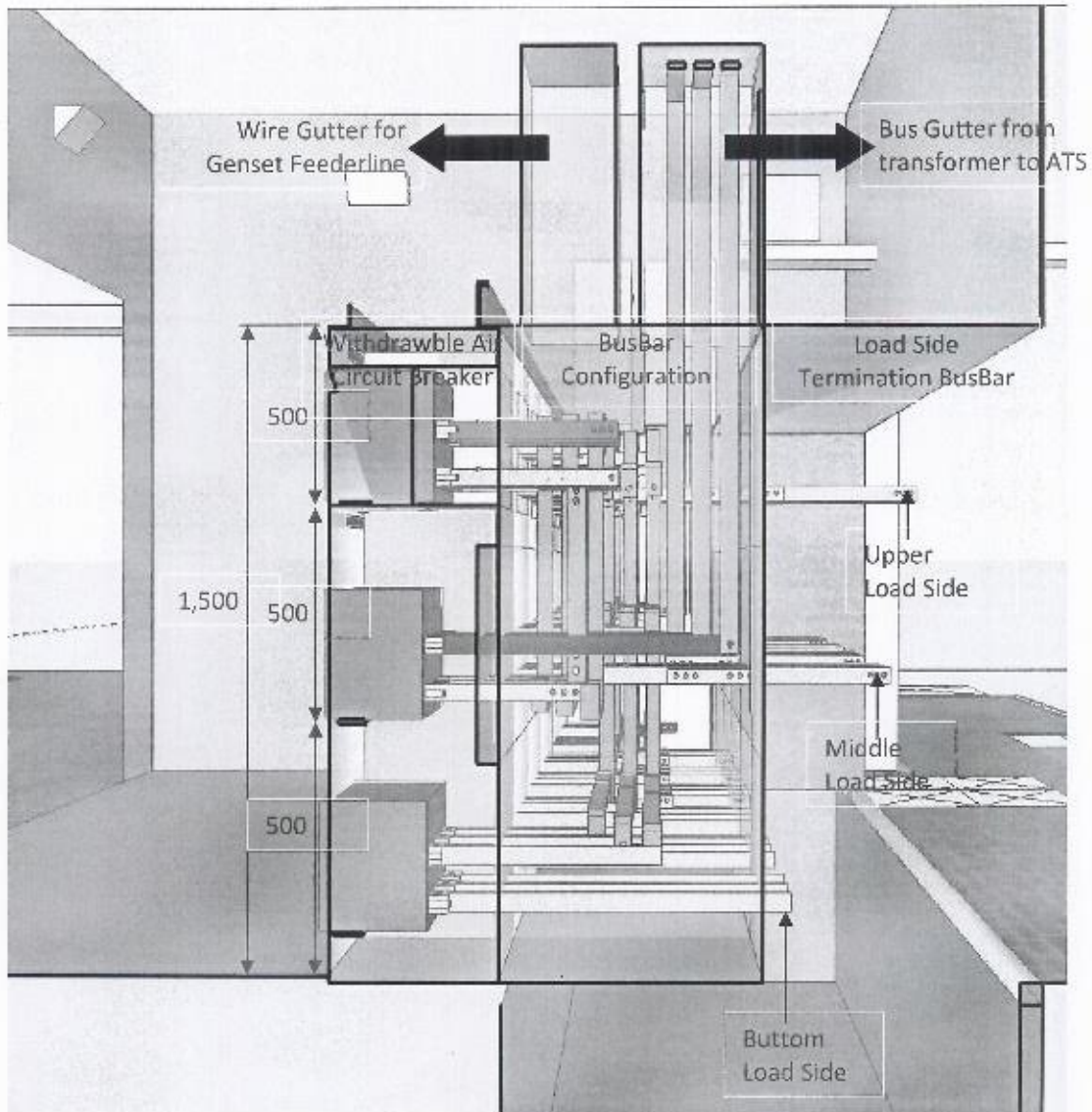
ITEM 3: 1.5MVA POWER TRANSFORMER AT THE MAIN BUILDING

Specification			
From		To	
1.h	Protection Glass	IP00	Impact Protection IP 54 with Built –in exhaust Fan and Automatic Controller. This amends technical specification of the BTD under Item 3 - 1.5MVA Power Transformer at the Main Building for 1.h.

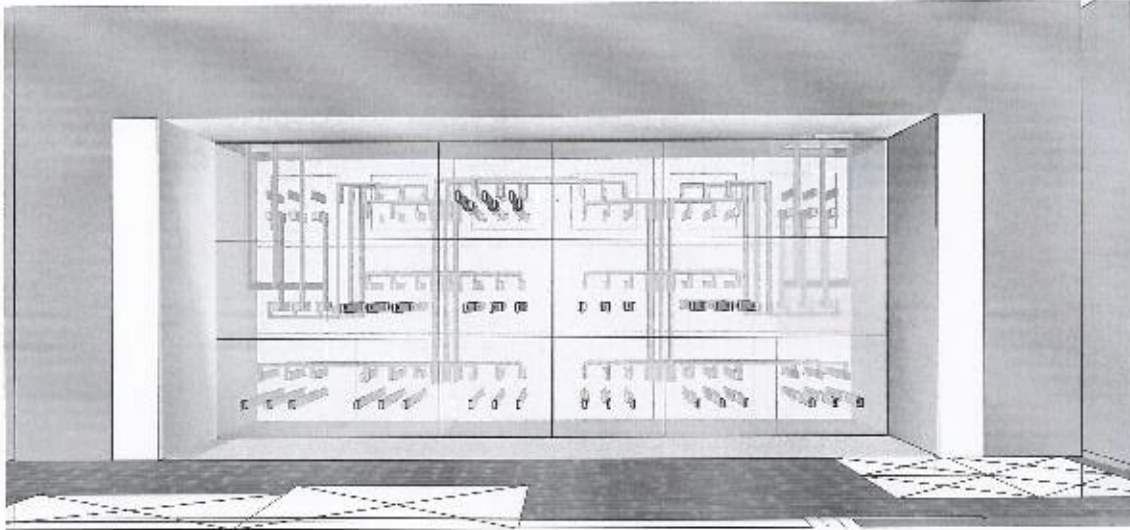




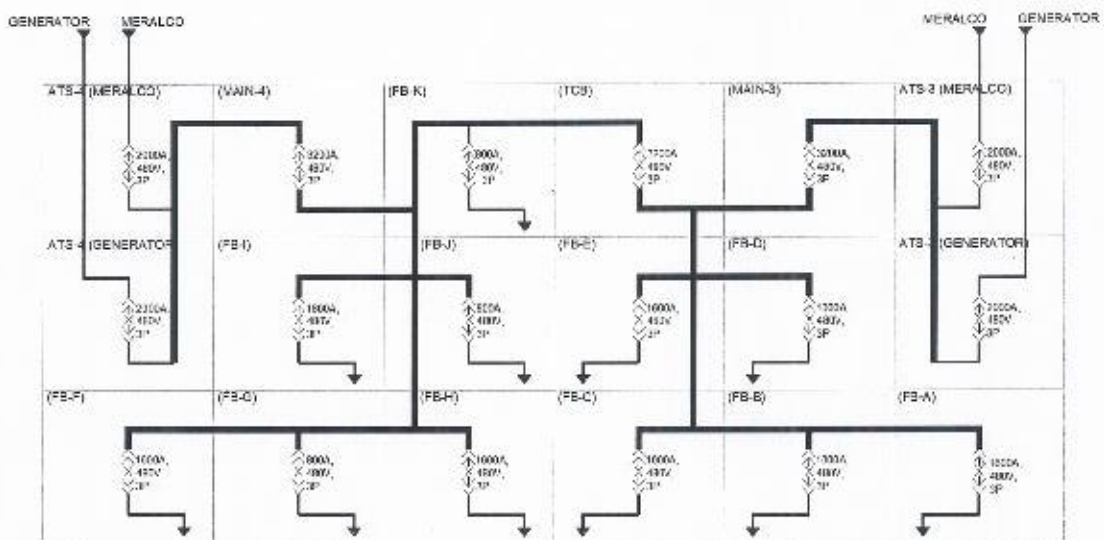
SIDE VIEW



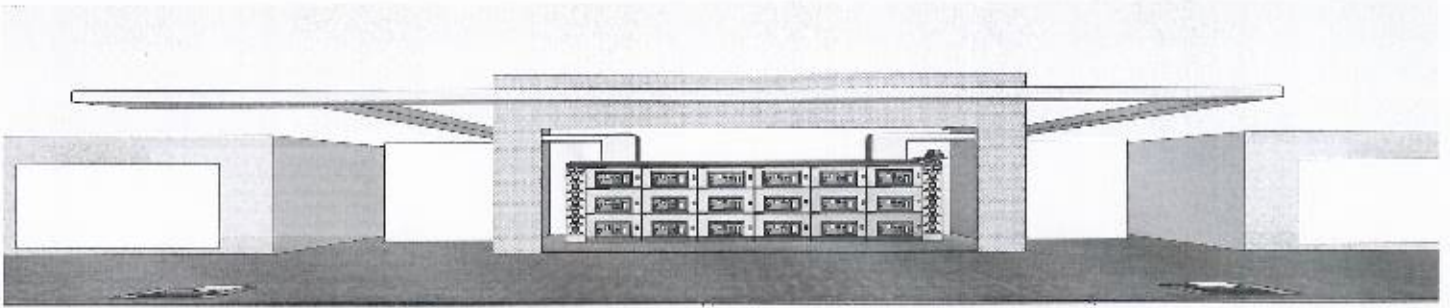
BACK VIEW



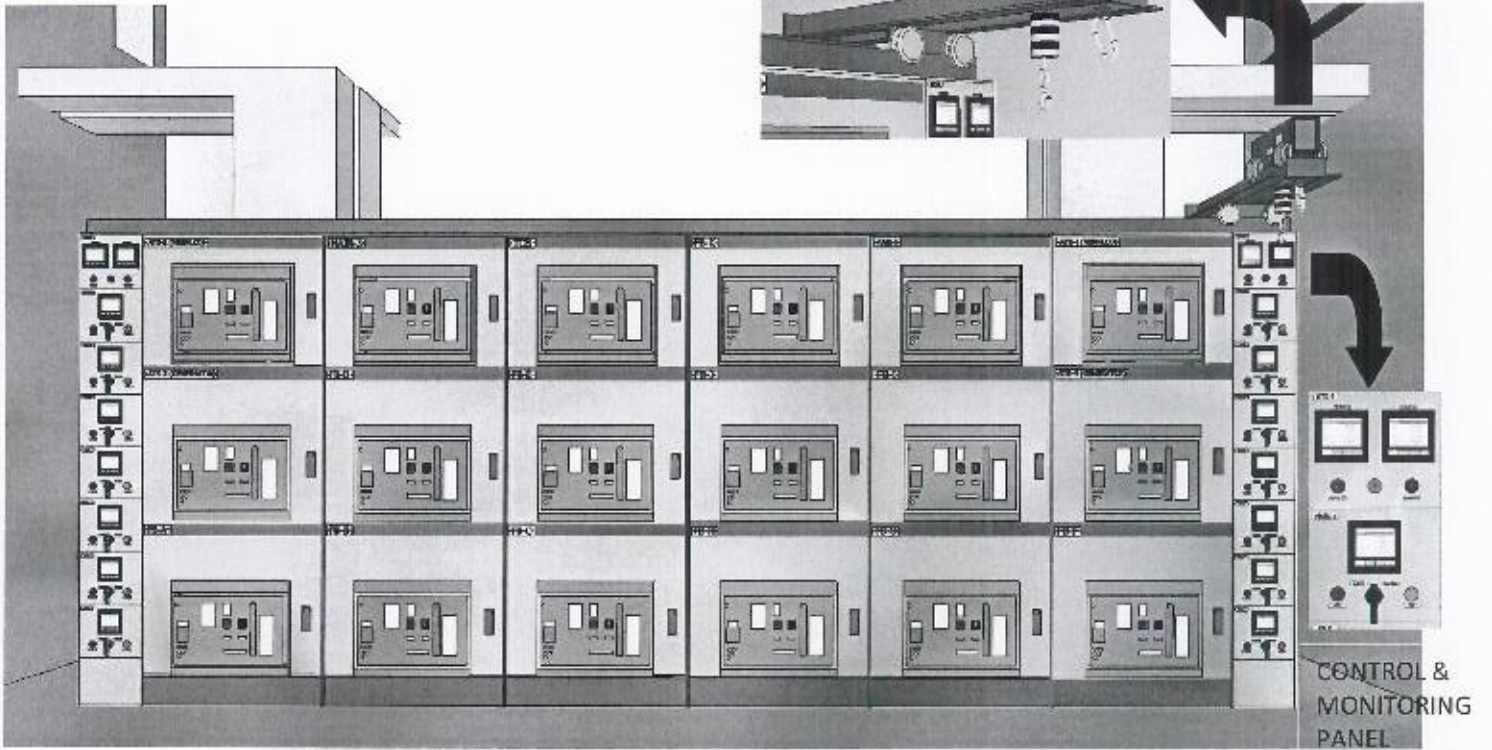
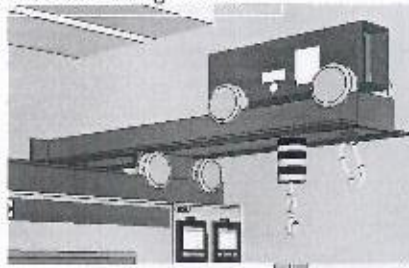
BACK VIEW CORRESPONDING SINGLE LINE DIAGRAM



FRONT VIEW



Rail-Mounted Circuit Breaker Lifting Device



FRONT VIEW CORRESPONDING SINGLE LINE DIAGRAM

