

Clarification 1

TES2022W-067

Construction of N.Maafaru Health Center

Contractor Comments	Response/Reference Document
<p>1. PLUMBING</p> <p><u>Piping Material</u></p> <p>1.1 The Specification mentions that the Water Supply Pipe works shall be in PPR Pipes & Drainage Pipe works shall be in HDPE Pipes. BOQ mentions that the water Supply & Drainage Pipe Works shall be in Upvc Pipes. Please clarify.</p>	<ul style="list-style-type: none">- Preferred for Water Supply pipe: Use PPR-C, SDR6, and PN10 confirms to DIN8077 & DIN 8078 standards for pipe and DIN 19560/16962 for fittings.- Preferred for building SWV and drainage pipe, shall be HDPE pipe.
<p><u>Water Pumps</u></p> <p>1.2 BOQ mentions that the two types of Water pumps are well water pump & Fresh water pump but the drawings are indicated only 3 nos of water pumps. Please clarify what types of water pumps to be used for each building.</p>	<ul style="list-style-type: none">- For Water Supply Pumps, it is 1 set of vertical inline booster centrifugal pump. The set consist of 2W + 1S pumps, complete with required accessories, diaphragm tank etc.- For flushing water, if any, could be a submersible pump (duplex type) or dry type centrifugal pump.
<p>3 BOQ mentions the unit of water pumps are item. As the example, what is the meaning of 2 item? Is it 2 sets of water pumps?</p>	<ul style="list-style-type: none">- For sewage ejection, if any, should be duplex pump non-clog submersible pump with grinder.- Please follow the BOQ.- It is mentioned as a set or number.



Drainage Design Drawings

1.4 There are some design issues.

- In Plumbing some waste lines from wash basins are not connected to the floor traps, (directly connected to the main waste line). Please clarify do we need to consider the floor traps for each wash basin?

- Waste lines from wash basin to be connected to Main waste line and not floor traps.

Details of Sanitary Fittings

1.5 Please provide the types of Sanitary Fittings as the example, what is the type of Water Closet, should it be Wall Mounted or Wall Hung? There is no any enough details of provided Sanitary Schedule.

- Type of water closet, either wall hung or floor mounted is under architects/clients preference as this is part of interior and aesthetic. Piping provision will adjust based on the chosen brand and type.

Brands of Sanitary Fittings

1.6 Can we use equivalent brand for "Dravit, cotto & Rapetti"?

- Since we do not recommend brands, we have no objection as to which brand the client decides to choose.

2. Fire System

Fire Pumps

2.1 Should Fire Booster Pumps UL Listed

- Fire Pumps shall be UL Listed

Conduiting

2.2 What is the material of Conduiting? Should it be GI or PVC?

- For fire FLRS cables, provide heavy/medium duty PVC for concealed type conduiting, and GI is preferable for open conduiting.

3. Electrical System

DB

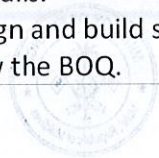


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<p>3.1 Please provide the Single Line Diagram for Dbs.</p> <p><u>MBD, ATS & GEN</u></p>	<ul style="list-style-type: none"> - The Contractor shall supply the Single Line Diagram with the shop drawings and as per URA regulations. This is noted in clause 18.1.16.1 of the Technical Specifications.
<p>3.2 Please provide MDB, ATS & Generator Location.</p>	<ul style="list-style-type: none"> - The revised Architectural, Structural and MEP drawings (Included MDB, ATS & Generator Location), please refer to Addendum 7 for the captioned projects.
<p><u>Cable</u></p> <p>3.3 Please provide the cables sizes and cable paths.</p> <p><u>CMS</u></p> <p>3.4 Please provide the Cable Management System (CMS) Drawings.</p>	<ul style="list-style-type: none"> - Cable sizes and paths to be supplied by Contractor with the shop drawings and as per URA regulations. - Cable Management System and cable tray ladder is not required.
<p>4. <u>ELV</u></p> <p><u>Specifications</u></p> <p>4.1 Reference to document of Specification of IT requirements not included ELV Specifications.</p> <p>Details as below:</p> <p>CCTV System, Network Switches instead of 48 port switch, PABX System, Nurse Call system, Structured cabling and Pilot Light. Please provide the details.</p> <p><u>Schematic Drawings</u></p> <p>Please provide the ELV Schematics drawings for CCTV System, Nurse Call system, structured cabling and Pilot Light.</p>	<ul style="list-style-type: none"> - Revised technical specifications after including the necessary ELV details, please refer to the addendum 7 of the captioned projects. - Schematic Drawings for ELV Systems Please refer to the Technical Specifications, MEP layouts and notes for details. - This is a design and build system, please follow the BOQ.



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<p>5. <u>Plumbing & Fire</u></p> <p><u>Pipe Supporting Accessories</u></p> <p>5.1 Please Clarify the material of Pipe Supporting Accessories, should it be SS or Heavy Duty GI? And Please provide the finishing coat thickness of the Pipe Supporting Accessories.</p>	<ul style="list-style-type: none"> - Pipe hangers, support, clamp, and brackets shall be hot dipped galvanized specs to BS EN ISO 1461.
<p>6. <u>Masonry</u></p> <p><u>Specification/BOQ</u></p> <p>6.1 Masonry block walls BOQ descriptions are not clear with the specification and block sizes.</p>	<ul style="list-style-type: none"> - Wall thickness is mentioned in the BOQ/DWG, not the brick size. BOQ note includes casting of brick as well.
<p>7. <u>Plastering</u></p> <p><u>Specification/BOQ</u></p> <p>7.1 In the description of wall plaster it is mentioned, used water proofing product with "Sika" is it mixed with mortar or separately?</p>	<ul style="list-style-type: none"> - It is mixed with mortar.
<p>8. <u>General</u></p> <p><u>Drawings/BOQ</u></p> <p>8.1 Please Provide Medical gas drawing for N. Mafaaru Health center.</p>	<ul style="list-style-type: none"> - Medical Gas drawings are not part of the scope - As per BOQ this is a design and build system, please follow the BOQ.
<p>9. <u>Electrical System</u></p> <p><u>Specification</u></p> <p>9.1 Please provide the specification for Electrical system.</p>	<ul style="list-style-type: none"> - Technical Specification for electrical installation is provided.

AMC



<p>9.2 There is a difference in quantity of Light Fittings, Switches, Sockets, and Fans between BOQ and Drawings. Should we follow BOQ or Drawing?</p> <p>Light Fitting</p>	<ul style="list-style-type: none"> - Please follow as per the Drawings for the quantities of the electrical fittings, please refer to the addendum 7 for the captioned project.
<p>9.3 If available please provide light fitting images or details for pricing.</p>	<ul style="list-style-type: none"> - Light fixtures shall be as per the drawings and technical specifications.
<p>14.9.01 to 7</p> <p>9.4 AHU selection data not available. Please provide.</p> <ul style="list-style-type: none"> - Air Volume - Static pressure - Air on coil DB/WB - Air Off coil DB/WB - Cooling capacity given - Sensible capacity 	<ul style="list-style-type: none"> - The AHU Cooling load is provided in the MEP Drawings. The Contractor shall compute the actual cooling load and selection of AHU based on details listed in the Technical Specification and MEP Drawings.
<p>14.9.07</p> <p>9.5 AHU capacity not given in the drawing and BOQ. Please Provide</p>	<ul style="list-style-type: none"> - AHU Cooling load is provided in the drawing. Please refer to the capacity given in the drawings.
<p>10. Civil & Finishes</p> <p>10.1 Is it clear land or any demolitions works to do at site?</p>	<ul style="list-style-type: none"> - Please refer to bill - 02 (excavation and filling) in the BOQ. Please refer to the addendum 7 for the site analysis reports of N.Maafaru.
<p>11. Please mention the location for disposal of demolition and construction debris.</p>	<ul style="list-style-type: none"> - Please coordinate with the island council to identifying disposal locations.

ASW



<p>12. Availability of Water and Electricity for construction purpose at site.</p>	<ul style="list-style-type: none"> - There is no electricity connection at the site, please coordinate with Fenaka to get the temporary or Permanent connection. - Groundwater can be used if water is drinkable, otherwise Contractor must use desalinated water.
<p>13. Are you providing the temporary land for contractor accommodation, material storage and workshop? Please mention extend of the lands.</p>	<ul style="list-style-type: none"> - The contractor will manage within Project site, if the contractor requires additional land for temporary accommodation, material storage, and workshop, please coordinate with the island council to get another land.
<p>14. Please mention the Advance payment percentage and recovery plan (PCC 48.1 - The Advance Payments shall be shall be: XX%)</p>	<ul style="list-style-type: none"> - 15%
<p>15. Please mention the Performance security percentage (PCC 49.1 - The Performance Security is XX%)</p>	<ul style="list-style-type: none"> - 5%
<p>16. According to the PCC 40.1 “The Employer shall pay the contractor the amount certified by the project Manager within 28 days of the date of each certificate” is this the total duration for the payment? (Including duration for issuing the Payment Certificate by the Project Manager) else please mention the maximum duration assign to the Project Manager to check the Contractor’s monthly statement and certify the amount to be paid to the Contractor.</p>	<ul style="list-style-type: none"> - As per current situation it will take minimum 60 to 75 days to pay the bills.
<p>17. We have notice that the following are missing in the mentioned Health centers :</p> <p>N. MAAFARU</p> <p>17.1 Lighting Protection drawing is missing</p> <p>17.2 Oxygen System drawing is missing</p>	<ul style="list-style-type: none"> - Please follow the Lighting Protection drawings, please refer to the addendum 7 for the captioned project. - This is the Design and Build system. Please follow the BOQ.

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<p>17.3 Solar Panel drawing is missing</p>	<ul style="list-style-type: none"> - Solar Panel drawing, please refer to the addendum 7 for the captioned project.
<p>18. Please mention the Brand name of Air Conditioning units since the considerable price difference can be seen in a different brand. It highly affects to bid price and it will lead our bid price not a competitive bid price</p>	<ul style="list-style-type: none"> - Since we do not recommend brands, we have no objection as to which brand the Client's choose.
<p>19. Are you certifying payment to claim for the cost of "material on site"?</p>	<ul style="list-style-type: none"> - We will pay the progress payments; we cannot pay the material.
<p>20. What is the order of priority of the documents when it comes to the clarifications?? 01. Specification 02. Drawings 03. BOQ ?</p>	<ul style="list-style-type: none"> - Drawings > BOQ > Specification
<p>21. Hydraulics and Drainage BOQ all pipes shall be uPVC. But Specification states PPR for Water Supply and HDPE for Drainage. Please clarify.</p>	<ul style="list-style-type: none"> - Preferred: For Water Supply pipes use PPR-C, SDR6, PN10 conforms to DIN8077 & DIN 8078 standards for pipe and DIN 19560/16962 for fittings.
<p>22. What is the item need to cover by Item no: 14.2.00 (Completion of electrical main, Item, 01Nos) under main connection and board of electrical Installation?</p>	<ul style="list-style-type: none"> - It is the connection to the main FENAKA/STELCO substation nearby, which is referred as "Item: 01Nos"
<p>23. Can you provide the extension for submission after the answer for clarifications? The specialist subcontractor and supplier scope are very high since this is a Health center project?</p>	<ul style="list-style-type: none"> - Bid submission for the captioned projects is 03rd January 23, 13:00:00 Hrs.
<p>24. Please provide details of the Ramp Facade.</p>	<ul style="list-style-type: none"> - Please refer to addendum 7 for the drawings mentioned for the captioned project.
<p>25. Please give more information about bedside curtains</p>	<ul style="list-style-type: none"> - That is s Hospital Grade bed curtain with Rails.



26. Please, clarify which door/window has curtains and which door/window has vertical blinds.

- Window curtains will use all the windows except general office area. Window curtain will use general office area

27. Specification

While referring to the Specifications included with the Bid Documents, as a Bidder we have noted that

- Since we do not recommend brands, we have no objection as to which brand the Client's chose.

for certain equipment / accessories certain manufacturers have been recommended by the Employer.

i.e. For the fittings/Material following manufacturers are noted

10.28.1 All sanitary wares shall be manufactured by the following manufacturers & shall comply to finishes schedules stated on drawings.

- (a) Rapetti (Eight Floor)
- (b) Duravit (Eight Floor)
- (c) Cotto (Other Floors)

01. Sanitary Fittings (Plumbing) - Cotto, Duravit or Rapettie

02. Water Pumps (Plumbing) - Deavy or Equivalent

03. Switchgear Items (Electrical) - Haeger or Equivalent

04. Protection of exposed Refrigerant Pipe Insulation - Make-Polybond

/Paramount Polytrear

05. Fire System - No any Recommended Brand

06. ELV System - No any Recommended Brand

07. Tiles - Guocera Cermiche of Spain/Horse brand

Ceramic of Malaysia/R.A.K Ceramic of United Arab

Emirates



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<p>Can you clarify whether it is possible for the Bidder to quote on the basis of equivalent manufacturers / brands for above recommended items instead of the same manufacturers / brands?</p>	
<p>28. Medical Air (4 Bar medical air / 7 Bar surgical air) by regulation you must have a second source of supply, ideally an automatic manifold (Cylinders) that can take the full demand in the event there is an issue with the plant.</p>	<ul style="list-style-type: none"> - This is a Design & Build System. Manufacture will proposed the design and approved by the client.
<p>29. Medical air plant and second source of supply must be allocated in separate rooms.</p>	<ul style="list-style-type: none"> - There is no Second source of supply.
<p>30. Copper pipelines apply to all gases?</p>	<ul style="list-style-type: none"> - Yes
<p>31. Should we offer N2O Manifold and ESM?</p>	<ul style="list-style-type: none"> - This is a Design & Build system. Manufacture will proposed the design and approved by the client.
<p>32. Should we offer AGSS plant?</p>	<ul style="list-style-type: none"> - No
<p>33. As per drawing medical gases rooms will be located under the ramp.</p> <ul style="list-style-type: none"> - Do you have dimensions of this area? - Oxygen must be separated by a partition from other medical gases. - Where will be located the medical air plant? 	<ul style="list-style-type: none"> - Please check on the drawing. - This is a Design & Build system. Manufacture will proposed the design and approved by the client.



<p>34. For operating theatres and procedure rooms regulation demands for 2 full sets of medical gas outlets (pendants outlets + wall outlets)</p>	<p>- Please follow the quantity mentioned on the BOQ.</p>
<p>35. Solar system capacity for N.Maafaru Health Center is not provided in the Drawings. So please provide the documents.</p>	<p>- Capacity of Solar PC system is 50KVA.</p>
<p>36. Regarding the horizontal bed head panel, the technical specifications ask:</p> <p>“Provision for two Oxygen, two Vacuum and One air”, I assume this is only as per the drawing shows 3 medical gases, but the areas where it shows more gases (6 gases = O2, N2O, VAC, MA4, SA7 AGSS) these outlets are going to be installed directly on the wall (surface or flush) or do they need a bed head unit for 6 gases?</p>	<p>- This is the Design and Build system, Please follow the BOQ.</p>

