

	CLARIFICATION QUERIES AND RESPONSES				
		Camden Power Station			

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MAINTENANCE OF CAMDEN POWER STATION COOLING TOWERS FOR A PERIOD OF 4 YEARS.

Query: Mandatory 2 was referenced - Should the experience be strictly on the Natural Draft Cooling Towers or Cooling Towers in General? If only on Natural Draft Cooling Towers? What is the logic behind that?

Response: Camden's cooling towers are large natural draft towers. Their construction, scale, access requirements and components differ from the mechanical draft or fan cooling towers. Refurbishment involves specialized work on distribution system, fill, drift eliminators, spray nozzles, structural components, stairs/walkways. Experience on a small mechanical draft tower does not demonstrate experience managing scales, configuration, access, safety risks and refurbishment methodology associated with Natural Draft Cooling Towers.

Query: The period that will be acceptable as verifiable experience being limited to 5 years, what is the logic behind that. Because as far as he is concerned, if you have experience of working on something, the experience does not expire. So, why the limitation on the period? If you look at industry in general, how many cooling towers have been refurbished in this manner in the last 5 years. If we are strict on that and not considering much longer experience that other people might have, then you are basically just ringfencing this work to a few select companies in the country.

Response: The 5-year period is intended to demonstrate that the partner has recent and relevant experience in the refurbishment of natural draft cooling towers. It is acknowledged that experience gained from previous projects does not technically expire, the purpose is to ensure that the experience submitted reflects the bidder's current capacity, resources, resources, practices, equipment and ability to execute work of the required nature and complexity.

Query: On the asbestos-related activities, it is standard practice that you will have a demarcation between dirty and clean areas. Is it an expectation that there would be decontamination unit that separates the two areas (referring to showers) that would sometimes be a requirement in the asbestos removal sites. The asbestos-related work will only be on the broken distribution pipes, that is not really a major asbestos removal contract. Transition from dirty area to clean area, is that a requirement?

Response: The asbestos-related work under this contract is specifically limited to safe removal and disposal of the identified broken asbestos pipes or fill material, followed by replacement with PVC material. This work must be undertaken in accordance with Asbestos Abatement Regulations, with approved Asbestos risk assessment and the approved plan of work. The employer expects the contractor to establish an appropriate regulated asbestos work area, with suitable demarcation between the asbestos work area and clean area, and to implement necessary controls to prevent the spread of asbestos contamination beyond

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the work area. A dedicated shower/decontamination unit is not being prescribed by Eskom as a separate standalone requirement. The type and extent of decontamination facilities and procedures shall be determined by the registered asbestos contractor based on the nature and classification of the work, the applicable legislation, the site-specific risk assessment and approved plan of work.

The following queries seek clarity on some of the items listed in the BOQ/Pricing Sheet:

Section C: Spares (Supply Only)

Items 3.11 to 3.20 Carbon Steel Pipes

Query: Please advise the specification (including required length per pipe unit) of the steel pipes as well as the corrosion protection required, if any.

Response: Specification - When the Technical Specification was compiled, the approach was. Existing pipe-PMI-Identify probable material-Verify against design codes-Select replacement material. However, if this is required for pricing. ASTM A53 Grade B or ASTM A106 Grade B can be used. Use Standard Pipes or Schedule 40 for those pipe sizes from the Pipe Schedule Tables. The Scope of Work stated that each pipe to be supplied will be of 6-meter length, 4 of each size per Cooling Tower. Please note, this will be on "As and When Required" arrangement, meaning we will only replace the defective pipes.

Section D: Cleaning & Maintenance

Item 4.10 Off-line stripping of damaged fill areas and repair damaged fill areas with new fill packs on an as and when required basis. Fill blocks of either HTP25, TC40V or VC25 are allowed. Data sheet of fill product to be supplied before installation.

Supply and install 304 stainless steel or GRP fill support brackets and beams to support newly installed fill.

Query: The unit(s) for this item is in m². This item is normally measured in m³. Please rectify.

What is the quantity and length of each of the support beams required?

Item 4.11 Off-line replacement of end cap valves, 304 stainless steel fully open rubber insert, 304 SS latch, SS bolt attached and SS washer and nut set. Sizes could vary between 6" to 12".

Query: The ends of the distribution pipes is normally a 6" pipe section. Why should the end cap valves be supplied in sizes varying between 6" to 12"? Please advise.

Response: Our currently installed fill material is made of asbestos plates and are firmly supported. These will only be replaced IF there are heavy objects that may fall on top of the fill material during Cooling Tower maintenance. We cannot quantify the support beams as we do not have damaged fill material currently. Again, this is on a "As and When Required" basis. The end caps will be installed on 6" pipes only. A new Scope of Work will be uploaded as Scope of Work (SOW) – Rev 1 with the correct units of measure of m³.

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Section F: Walkways

Item 6.1 Materials

Query: Can we please have drawings of the existing walkways that need to be replaced so we can work out the lengths and widths of the replacement walkways thus quantifying materials. Is there a preferred MOC for the walkways?

Response: That information will be available for the Partner who will win the contract award and there is no preferred MOC. Inspections and discussions will take place for every Tower that will be taken for Maintenance.