### Table 1: Clarification to Queries (Set-07, dated 20-07-2018)

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Part</th>
<th>Section</th>
<th>Clause no.</th>
<th>Page no.</th>
<th>Tender Condition</th>
<th>Tenderer’s query</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>As per Executive Summary Report, SN 3 to Addendum - 1, Dated: 19-06-2018</td>
<td>Table-2 Summary of TVS configuration as per prefinal design report</td>
<td></td>
<td>As per Table 2: Summary configuration as per prefinal design report, it has been observed that there are 8 TVS fans in one station. We understand that 8# TVS fan are considered in one station to ensure degrade mode. However, that will impact other factors such as plant room size, panel etc. We propose to have 4# TVS fans in one station that will be able to handle most of the possible modes, as also almost all the Indian metro rail projects are with 4# TVS fans in one station. Kindly confirm.</td>
<td></td>
<td>Kindly refer to clarification of Pre-bid Query Set-5. Sl. No. -2</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>As per Executive Summary Report, SN 3 to Addendum - 1, Dated: 19-06-2018</td>
<td></td>
<td>As per Table-11 Assumption and input data on rolling stock. It has been observed that HRR Empty Car Auxiliary Systems is assumed on conservative side.</td>
<td>It’s seems HRR Empty Car Auxiliary Systems value is too low compare to other metro projects. However, as this is rolling stock specific value, communicated by rolling stock manufacturer regarding heat release rate. Kindly confirm the value again, as the low value will have a major impact on equipment sizing.</td>
<td></td>
<td>Kindly refer to clarification of Pre-bid Query Set-5. Sl. No. -3</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>General</td>
<td>Boarding/ Alighting Data</td>
<td></td>
<td>Boarding/ alighting data is not given in SES &amp; CFD report/addendum-1. Kindly confirm in case you have any PHPTDT DATA communicated or need to consider full load based on similar project.</td>
<td></td>
<td>Kindly refer to clarification of Pre-bid Query Set-5. Sl. No. -4</td>
</tr>
<tr>
<td>4</td>
<td>-</td>
<td>General</td>
<td>Normal Mode</td>
<td></td>
<td>It has been observed that during normal mode, TVS fan has been activated to reduce the tunnel load. However, as the outside (ambient) temperature is higher, so TVS fan may not be helpful. Hence, we propose to consider cool air dumping. Kindly confirm in case of any specific requirement.</td>
<td></td>
<td>Kindly refer to clarification of Pre-bid Query Set-5. Sl. No. -5</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>As per Executive Summary Report, SN 3 to Addendum - 1, Dated: 19-06-2018.</td>
<td>Table-6 Assumptions and input data on temperature &amp; humidity</td>
<td></td>
<td>As per Table6: Summer Dry Bulb - 41.2°C, ASHRAE 2017 Summer Wet Bulb - 22.9°C, ASHRAE 2017 As per Page no. 10 of 14, Executive Summary Report, SN 3 to Addendum - 1, Dated: 19-06-2018. In the following, the list of input data used for HVAC Thermal Calculation (HAP E20-II) and to define the main Equipment Sizing is given: Outdoor Design Conditions: City Name: Ahmedabad, Location: India, Latitude: 23.1 Deg., Longitude: -72.6 Deg., Elevation: 54.9 m, Summer Design Dry-Bulb: 42.2 °C, Summer Coincident Wet-Bulb: 23.3 °C,</td>
<td>Kindly Confirm that which ambient conditions to be considered for sizing of equipment’s, ASHRAE 2017 or HAP input Data(Weather Data).</td>
<td>Refer data given in Executive Summary. Tender conditions prevails.</td>
</tr>
</tbody>
</table>

---


Clarification to Queries (Set-07, dated 20-07-2018) received subsequent to the Prebid Conference

IFB No: MEGA/UG/E&M-01 Dt: 18-04-2018
<table>
<thead>
<tr>
<th>S.N.</th>
<th>Part</th>
<th>Section</th>
<th>Clause no.</th>
<th>Page no.</th>
<th>Tender Condition</th>
<th>Tenderer's query</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>Sl. No. 63 of clarifications (set-1), page no. 9 of 11</td>
<td>Kindly confirm that air-cooled chiller will be used for critical rooms or VRV system. There is cost impact due to copper piping in VRV system.</td>
<td>Water cooled chiller are envisaged during revenue hours and air cooled chiller during non-revenue hours. Tender conditions prevail.</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>As per Executive Summary Report, SN 3 to Addendum - 1, Dated: 19-06-2018. Table-12.13A14, Chiller and AHUs sizes</td>
<td></td>
<td>This is part of Contractor's detailed design work, based on functional and performance requirements specified in Employer's Requirements. Tender Conditions prevail.</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>Sl. No. 58 of clarifications (set-2), page no. 9 of 19</td>
<td>Air Cooled chiller COP &amp; IPLV is given in Design Basis Report (Page No. 32). Kindly confirm the water-cooled COP and IPLV.</td>
<td>Refer Design Basis Report. Tender conditions prevail.</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>As per DBR, Clause no. 5.1.5, Internal Heat Gains</td>
<td>Kindly confirm that equipment’s load to be considered as per Area basis or as per actual number of equipment’s like lift, escalators, AFC etc.</td>
<td>Data mentioned in thermal calculation report may be referred. However this is the part of contractor interfacing activity with designated contractors subject to Contractor's design Approval by Engineer.</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>DBR, Clause No-4.4.2.5, Exit Stairway Pressurization</td>
<td>No change, Tender conditions prevails.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>DBR, Clause No-5.15, Ventilation</td>
<td>Kindly confirm between DBR &amp; tender which document to be followed.</td>
<td>Plantroom system based on space provisions, with full height PSD installed at platform will be basis of detail design by the Contractor, subject to its acceptance by the Engineer. Tender conditions prevail.</td>
</tr>
<tr>
<td>12</td>
<td>-</td>
<td>Addendum - 2</td>
<td>ITB 24.1</td>
<td>BDS - 14</td>
<td>The deadline for Bid Submission : Date : 07-08-18 Time : 15:00 hrs</td>
<td>We request you to extend the deadline for Bid Submission : Date : 07-09-18 Time : 15:00 hrs</td>
<td>Please refer to Addendum 2 issued dated 04-07-2018 for Bid submission extension.</td>
</tr>
</tbody>
</table>