DRAFT QUALITATIVE REQUIREMENT OF BIOMETRIC READER, KEYPAD READER, DISPLAY के गुणात्मक आवश्यकता का प्रारूप

<table>
<thead>
<tr>
<th>S/NO.</th>
<th>DESCRIPTION</th>
<th>SPECIFICATIONS</th>
<th>Trial Directives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Scanner Type</td>
<td>Optical</td>
<td>To be physically checked by BOM. OEM will submit certificate.</td>
</tr>
<tr>
<td>2.</td>
<td>Sensing Area</td>
<td>As per ISO 197794-2</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Resolution</td>
<td>Sensing Area as per ISO 19794-2</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Setting Level</td>
<td>30 or latest as defined in <a href="http://www.egovstandards.gov.in">www.egovstandards.gov.in</a> for fingerprints</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Image Standards, Extractor &amp; Minutia Template Standards</td>
<td>ISO 19794-2 for fingerprint minutiae template and ISO 19794-4 for fingerprint image template. The algorithm used for Minutiae extraction must be Minax compliant/Listed</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Response Time</td>
<td>Less than 2 seconds for single transaction</td>
<td>To be physically checked by BOM OEM will submit certificate.</td>
</tr>
<tr>
<td>7.</td>
<td>Preferred Operating temperature</td>
<td>-15 to 45 degree C</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Preferred Storage Temperature</td>
<td>-20 to 55 degree C</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Preferred Humidity</td>
<td>10% to 90%</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Reaction time</td>
<td>Less than 02 sec in 1:1 mode</td>
<td></td>
</tr>
</tbody>
</table>

Biometric Reader, Keypad Reader, Display के गुणात्मक आवश्यकता का सूचीकरण करने हेतु दिनांक 15 अक्टूबर 2019, 14 नवम्बर 2019 एवं 08 जुलाई 2020 को सभा का आयोजन किया गया।
11. **Success/failure indication**
   - Indicating lights to display success/failure for access card or fingerprint authentication
   - To be physically checked by BOM. OEM will submit certificate.

12. **Operating system**
   - Vendor needs to declare the compatible operating system. Firm will provide the API and SDK (To be decided by the user department at the time of indent)

**Keypad Reader**

13. **Type**
   - Alphanumeric keys or touch screen
   - To be physically checked by BOM

**Display**

14. **Screen Size**
   - 4.3 inches diagonally
   - To be physically checked by BOM

15. **Type**
   - LCD or better

**Support**

16. **Weather protection**
   - IP 54 or IP 65 or IP 67 (to be decided by the user department at the time of indent)

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**Notice**

- Firm has to submit National / International accredited Lab certificate. If no such lab available in India then, firm has to submit any Indian Govt Lab/OEM certificate in respect of the same.

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**Signature**

(Urban Commandant (Administrative))

8th January 2023