

Corrigendum 2 – Update on Technical & General Compliances

Dated: 06/08/2020

Reference - This corrigendum has been issued for **NIT No: AEML/MDB/2020-21/60**.

With Reference to the above, the corrigendum 2 to the afore mentioned tender is hereby issued as follows:

Revised & Additional Technical Specifications: -

Description	As per original	Revised & Additional Technical Specifications
Resistance Type	Water and scratch resistant	Device should be having IP 67 to IP 69 & with global standard - Gorilla Glass for scratch resistance.
Operating System & Version	OS - Android 9.0 or above	AEML require Android version of 7.1 & above
Screen Size	Screen Size – more than 5.0 inch	AEML require display screen size of device of 4.7 inch to 6 inch.
Battery	Battery-4000 mAh or Higher with fast Charging	Device should be having replaceable / extended / warm swap battery system with battery of 4000 mAh or Higher & fast Charging.
Body	Metal body	Device should be having IP 67 to IP 69 & with global standard - Gorilla Glass for scratch resistance. Material of the body of device can be decided by vender.
Rugged	Industrial grade Rugged	Device should have MIL-STD-810 Drop Test (shocks) & Tumble Rating of Industrial standard.
UHF RFID & RF ID Reader	Integrated UHF RFID & RF ID Reader	AEML require only those devices which are completely Integrated with UHF RFID, Barcode & QR code Reader. Separate / accessories like UHF RFID, Barcode & QR code Reader is not acceptable.
Delivery	4 weeks	20% devices are required to be delivered in 4 weeks & balance 80% in staggered manner in 8 weeks from date of Purchase Order.
Warranty	Minimum 3 Years	AEML require 5 Year Comprehensive warranty of Device & 5-year functioning cost of MDM
Camara	5 Megapixel or more	Device should have Rear & Front camera.
Display readability in sunlight and dark	Not mentioned	Device display should have both features - Sun light readable display and backlit for easy viewing in the dark
CPU	Not mentioned	Device should have SD660 Octa core processor, 1.8GHZ processor & Above
Support for light and medium glove operations	Not mentioned	Touch screen of the Device should be able to operate with both bare finger and light / medium glove-based touch
OS lifecycle and support	Not mentioned	OEM's should be commitment to provide regular security updates and patches for at least 5 years
BIS approval	Not mentioned	Device Should have BIS (Bureau of Indian Standards) certification & ETA (Equipment Type Approval) from WPC (Wireless Planning & Coordination) agencies

General	Not mentioned	Channel Partner has to support 5-year performance. If there are issues in standard / specification / performance, then device should be return in 2 days only. Otherwise applicable SLA Penalty will be imposed.
Technical Qualification Criteria:	Bidder(s) should be in the business of Supply of Mobile Handset or Devices integrated with UHF RF ID & Barcode Reader with software, MDM, Testing, and integration services	Bidder(s) should be in the business of Supply of Mobile Handset or Devices integrated with UHF RF ID & Barcode Reader with software, MDM, Testing and integration services (or) Bidder(s) should have supplied directly or through it's distributor/dealer UHF Radio Equipment in last 03 years
Bid Submission / due date of Tender	10.08.2020 up to 18:00	There will be no changes in the date of online bid submission / due date of tender. It will be on 10.08.2020 up to 18:00 only.
RFID Reader	More Than 3 Meters	Reading range of the device should be 3 meter & above. It should be capable of reading at any angle.
SIM	Dual SIM	Device Can be of Single SIM slot or it can be of Dual SIM.
PSAM Integration	Not mentioned	PSAM card slot is not required.
GPS Location Enabled & Accuracy Range	Not mentioned	Device should have GPS location enables. Device Should have accuracy range of only 1-5 meter for GPS co-ordinates. This cannot be more than 20 meter in field location.
RFID Reader Specifications	Not mentioned	Annexure I - RFID Reader Specifications Attached
MDM Specifications	Not mentioned	Annexure II - MDM Specifications Attached

Annexure I - RFID Reader Specifications

UHF RF seal specifications:

1. Material required in the roll form, Inkjet and thermal transfer printable on one side (without die-cut labels) and pre-printing options for die-cut labels
2. High performance permanent adhesive with excellent bonding to a variety of substrates like polycarbonate material
3. Printable premium Synthetic label on transparent PET, resin ribbon is recommended
4. Label size: enough label size which shall fit on AEML all make meters and at the same time best reading capability
5. Delivery Format : Reel
6. No. of Labels/ Reel: - 1000 pcs

RF SPECIFICATION

1. Mode of Operation- Passive
2. Device type- Class 1 Gen 2 Passive UHF RFID transponder
3. Air interface protocol: - EPC Global Class 1 Gen 2 ISO 18000-6C
4. Size: Suitable between 46.0 x 20.0 x 0.2 mm to 73.0 x 20.0 x 0.2 mm with max antenna power
5. Operational frequency: - Global 860-960 MHz
6. IC type :- NXP UCODE 8
7. Data Retention: - UPTO 20 years
8. Write Cycle Endurance:- 1,00,000
9. Read Range: - 3 metres & above
10. EPC Memory :- 96 Bits -128 Bits
11. User Bits Memory:- 512 Bits
12. Unique TID (unalterable serial number) memory: 64 Bits for demonstration in a court of law
13. Locking of TID at the point of manufacture.
14. Tamper event alert with set flag indicator
15. IP68 complaint
16. Print Options on RF seal:
 - Dynamic data: EPC/ TID barcode
 - Dynamic and fixed text
 - Color/ Monochrome graphics

ENVIRONMENTAL RESISTANCE

Operating Temperature -20°C to +70°C / -4°F to +158°F

Withstands Exposure to :- 95% humidity, 60°C × 100 h, 50% humidity, 80°C × 100 h

Peak Temperature:- +100°C for 1 hr, +80°C for 100 hrs

Attachment : Self adhesive (std)

Adhesive Service Temperature:- -20°C to +85°C / -4°F to +185°F

Chemical Resistance :- No physical or performance changes in:

- 168 h Salt water (salinity 10%) exposure
- 168 h Motor oil exposure
- 12 h NaOH (10%) exposure
- 30 min Acetone exposure

Recommended Application Temperature :- +10°C to +38°C

Chemical Resistance:- No physical or performance changes in:

- 168 h Salt water (salinity 10%) exposure
- 168 h Motor oil exposure
- 12 h NaOH (10%) exposure
- 30 min Acetone exposure

Ideal Storage Condition: - +23°C / 50% RH

Expected Lifetime ; - Years in normal operating conditions

Customer specific encoding of EPC Required.

Certified by RoHS/CE

Customer specific layout including logo & text, numbers, barcodes/QR codes etc

Warranty : 5 years

Annexure II - MDM Specifications

SN	Standard Technical Specification for Rugged Devices	Compliance
1	Solution should have built in Single Sign on and Multifactor Authentication	Mandatory
2	Solution should have Shared device feature to allow multiple User login on single device to work in shift-based environments.	Mandatory
3	Solution should have proactive device maintenance and automation	Mandatory
4	Solution should provide advance application management capabilities to push, upgrade, retire and configure enterprise applications.	Mandatory
5	Solution should have built in Remote management capabilities for troubleshooting/ training	Mandatory
6	Solution should support Android Open Source Project and Closed network enrolment to enrol the devices in case of unavailability of Google Services	Mandatory
7	Solution should support True Multitenancy	Mandatory
8	Solution should support Android Legacy platform	Support Android 6 & Higher
9	Solution should have Containerized Browser for Secure access to Intranet/ Internet resources	Restricted access should be available
10	Solution should have Local Application Caching Technology, for Rapid Device Provisioning, OS upgrades, Application Push, helping in Bandwidth and Data Use control	Mandatory
11	Solution should have built-in Kiosk/ Lockdown mode for Granular Controls: Single App or Multi App mode	Mandatory
12	Solution should support Rapid Deployment and Provisioning like Zero Touch, barcode scanning, side loading, and web etc.	Mandatory
13	Solution should provide granular device control and policies	Mandatory
14	Solution should provide built in automated compliance engine to ensure all devices abide by enterprise policies	Mandatory
15	Solution should provide centralized Asset Management capabilities to discover and track all managed devices in your enterprise.	Mandatory
16	Solution should support real time location tracking of the managed devices and display it on a centralized console.	Mandatory
17	Solution should provide Centralized/ Interactive dashboards showcasing informations like, Device Security Status, Last Seen, OS breakdown etc.	Mandatory
18	Solution should support Custom attributes and Lookup values	Mandatory
19	Solution should be able to provide Remote management capabilities maintaining the Privacy of the End User	Mandatory

20	Solution should be available as Cloud service as well as On-prem	Mandatory
21	Solution should support Remote management capabilities for the End User related Operating Systems for Android Rugged Devices	Mandatory
22	Solution should provide centralized/ integrated Console for Remote Management	Mandatory
23	Solution should have option to record the remote session for trainings maintaining the end user's privacy	Mandatory
24	Solution should have option of Command Line and File Management access	Mandatory
25	Solution should be able to integrate with Enterprise CRM solution	Mandatory
26	Solution should be able to launch fully-functional web-based console directly from existing CRM platform	Mandatory
27	Solution should be able to integrate with SMS gateways	Mandatory
28	Solution should be able to provide custom-branded console and app	Mandatory
29	Solution should be available as a SaaS service or On-Premises Deployment as an options	Mandatory
30	Solution should be able to provide localized, fully functional Web based console	Mandatory
31	Solution should have capability to support users with slow bandwidth or network performance	Mandatory
32	Solution should have ability to automatically reconnect to customer's device upon device reboot or network change	Mandatory
33	Solution should support Notification tab to end user devices as an options	Mandatory
34	In case of device being formatted by Hard / Soft boot, MDM software should automatically reloaded.	Mandatory
35	MDM licences should be extended on same rate for further devices as and when required	Mandatory
36	This MDM is mainly for device control and will be used only field related activities	Mandatory
37	This MDM will not have requirement in future for any of the O365 components to be installed (Email, Teams etc).	Mandatory