

संख्या. पी-63013/36/2019/मोड-1/सीसुबल

2360-70

भारत सरकार, गृह मंत्रालय

महानिदेशालय सीमा सुरक्षा बल

(रसद निदेशालय: आधुनिकीकरण सैल)

(Email-comdtord@bsf.nic.in)

(Fax: 011-24367683)

ब्लाक संख्या . 10,

सीजीओ काम्पलैक्स,

लोधी रोड, नई दिल्ली-03

दिनांक 22 सितम्बर 2020

सेवा में,

महानिदेशक:- आसाम राईफलस (through LOAR), केन्द्रीय ओद्योगिक सुरक्षा बल, केन्द्रीय रिजर्व पुलिस बल, भारतीय तिब्बत बोर्डर पुलिस, सशस्त्र सीमा बल, राष्ट्रीय सुरक्षा गार्ड एवं पुलिस अनुसन्धान एवं विकास ब्योरो

विषय: अनुमोदित गुणात्मक आवश्यकता/परीक्षण निर्देशों का प्रेषण

तकनीकी विशेषज्ञों के उप समूह द्वारा सूत्रीकरण किए एवं महानिदेशक सीमा सुरक्षा बल द्वारा अनुमोदित निम्नलिखित गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है:-

- i) Smart Card Reader cum controller
- ii) Biometric Reader, Keypad Reader & Display
- iii) Door Access Controller

संलग्न : उपरोक्तनुसार

सतीश चन्द्र बुडाकोटी 22/9/2020

(सतीश चन्द्र बुडाकोटी)

उप महानिरीक्षक (रसद)

प्रतिलिपि :-

1. तकनीकी निदेशक
The Technical Director
राष्ट्रीय सूचना-विज्ञान केन्द्र, नोर्थ ब्लाक,
गृह मंत्रालय, नई दिल्ली
NIC, North Block, MHA
New Delhi
(द्वारा ई-मेल)
(ई-मेल पता : mpsugandhi@nic.in)
 2. SO (IT), North Block, MHA
(Through E-mail)
(E-mail address: soit@nic.in)
 3. तकनीकी विंग, सीमा सुरक्षा बल
 4. गृह मंत्रालय (सचिवालय सुरक्षा संस्था), तृतीय तल, एनडीसीसी-1। भवन, जय सिंह रोड, नई दिल्ली-1
- : आपसे अनुरोध है कि उक्त उपकरणों के गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वैबसाईट (पुलिस आधुनिकीकरण विभाग-गुणात्मक आवश्यकता) पर अपलोड करने का श्रम करें।
- : आपसे अनुरोध है कि उक्त उपकरणों के गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वैबसाईट (पुलिस आधुनिकीकरण विभाग-गुणात्मक आवश्यकता) पर अपलोड करने का श्रम करें।
- : आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक आवश्यकता /परीक्षण निर्देशों को सीमा सुरक्षा बल की वैबसाईट पर अपलोड करने का श्रम करें।
- : आपके पत्र संख्या डी-22012-102/2017-एसएसओ (ओ) दिनांक 06 सितम्बर 2019

QUALITATIVE REQUIREMENT AND TRIAL DIRECTIVE OF SMART CARD READER CUM CONTROLLER

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| S/NO. | DESCRIPTION | SPECIFICATIONS | Trial procedure suggested by the BOO. | Result expected/desired. |
|-------|--|---|---|---|
| 1. | Type | Capable of reading contactless smart card (ISO 14443 1/2/3/4 A and B). 64 Kbytes storage on smart card. | To be physically checked by the BOO. OEM will submit certificate. | Type of the system must be as per requirement mentioned in the QRs. |
| 2. | Reading Range | Upto 10cm (Maximum) | To be physically checked by the BOO. | Reading range must be as per requirement mentioned in the QRs. |
| 3. | Memory sufficient for application software to store one day data | Hotlist and Blacklist data <ul style="list-style-type: none"> • Min 10000 and expandable upto 25000 • Entry/exit data • Min 25,000 and expandable upto 50,000 Chip Serial No. (CSN) shall be used for hot listing & black list. Entry/Exit data indicate data & time of entry/exit (time stamp) corresponding to the card holder accessing the gate. Communication between reader & server shall be through SSL. <p>(Firm will provide the API and SDK (To be decided by the user department at the time of indent)</p> | OEM will submit certificate. | Memory sufficient for application software to store one day data must be as per requirement mentioned in the QRs. |
| 4. | RTC | Built in most accurate RTC (Real Time Clock) with Lithium Cell backup. | To be physically checked by the BOO. OEM will submit certificate. | RTC must be as per requirement mentioned in the QRs. |
| 5. | PC Communication | Ethernet (TCP/IP) | To be physically checked by the BOO. OEM will submit certificate. | PC communication must be as per requirement mentioned in the QRs. |

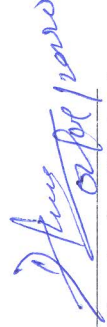
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by the user department at the time of indent) the BOO. OEM will submit the certificate. per requirement mentioned in the QRs.



(Mukesh Panwar), Comdt
SSF, MHA



(Dr M M Gosal), SSO
BPR&D


(Dhananjay Mishra),
Comdt, SIW BSF


S S Chaturvedi, NSM
ADG (Log), BSF



(Vikas Mautrya), DC
CISF


(Manjunath), DC/Comm
SSB


(K Sahal), Asstt Dir.
DCPW


(Harish Chandra), GSO-I
Assam Rifles


(Insp/RM Manish Raj)
SIW, BSF


(SI/Tele Sanjiv Kumar)
ITBP


(Vaibhav Srivastava), AC
CRPF

Approved/Not approved


Director General 219.1000
Border Security Force



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QUALITATIVE REQUIREMENT AND TRIAL DIRECTIVE OF BIOMETRIC READER, KEYPAD READER, DISPLAY

| S/NO. | DESCRIPTION | SPECIFICATIONS | Trial procedure suggested by the BOO | Result expected/desired |
|-------------------------|---|---|---|--|
| Biometric Reader | | | | |
| 1. | Scanner Type | Optical | To be physically checked by BOO. OEM will submit certificate. | Scanner type must be optical. |
| 2. | Sensing Area | As per ISO 19794-2 | OEM will submit certificate. | Sensor area must be as per the requirement mentioned in the QRs. |
| 3. | Resolution | Sensing Area as per ISO 19794-2 | OEM will submit certificate. | Resolution must be as per the requirement mentioned in the QRs. |
| 4. | Setting Level | 30 or latest as defined in www.egovstandards.gov.in for fingerprints | OEM will submit certificate. | Setting level must be as per the requirement mentioned in the QRs. |
| 5. | Image Standards, Extractor & Minutia Template Standards | 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 | OEM will submit certificate. | Image Standards, Extractor & Minutia Template Standards must be as per the requirement mentioned in the QRs. |
| 6. | Response Time | Less than 2 seconds for single transaction | To be physically checked by the BOO. | Response time must be as per the requirement mentioned in the QRs. |
| 7. | Preferred Operating temperature | -15° C to 45° C | OEM will submit certificate. | Preferred Operating temperature must be as per the requirement mentioned in the QRs. |

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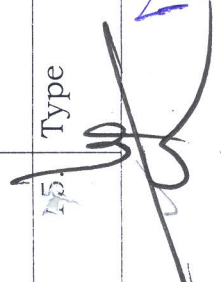
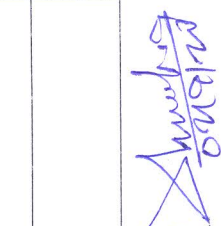
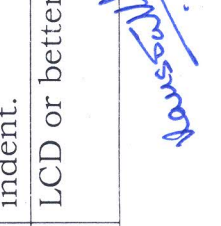
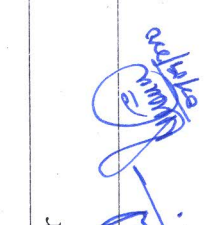
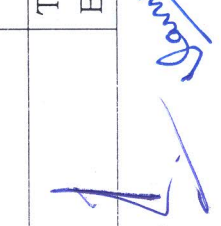
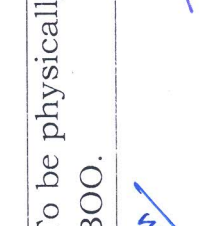
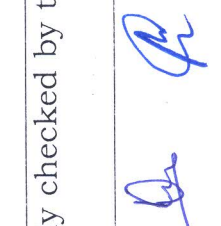
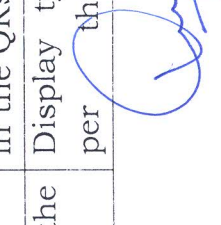
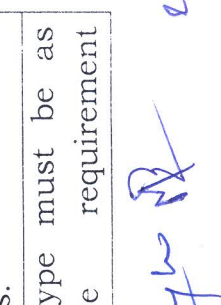
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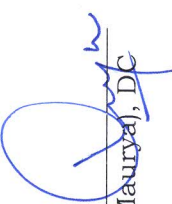






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| 8. | Preferred Storage Temperature | -20° C to 55° C | OEM will submit certificate. | Preferred temperature must be as per the requirement mentioned in the QRs. |
| 9. | Preferred Humidity | 10 to 90% | OEM will submit certificate. | Preferred Humidity must be as per the requirement mentioned in the QRs. |
| 10. | Reaction time | <1.5sec in 1:1 mode | To be physically checked by BOO. OEM will submit certificate. | Reaction time must be as per the requirement mentioned in the QRs. |
| 11. | Success/failure indication | Indicating lights to display success/failure for access card or fingerprint authentication | To be physically checked by BOO. | Success/failure indication must be as per the requirement mentioned in the QRs. |
| 12. | Operating system environment | 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)) | OEM will submit certificate. | Operating system environment must be as per the requirement mentioned in the QRs. |
| Keypad Reader | | | | |
| 13. | Type | Alphanumeric keys or touch screen | To be physically checked by the BOO. | Keypad reader type must be as per the requirement mentioned in the QRs. |
| Display | | | | |
| 14. | Screen Size | 4:3 inches diagonally or as decided by the user department at the time of indent. | To be physically checked by the BOO. | Screen size must be as per the requirement mentioned in the QRs. |
| 15. | Type | LCD or better | To be physically checked by the BOO. | Display type must be as per the requirement mentioned in the QRs. |

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| Support | | | |
| 16. Weather protection | IP54 or IP65 or IP67 (To be decided by the user department at the time of indent) | OEM will submit certificate. | Weather protection must be as per the requirement mentioned in the QRs. |
|  S S Chatterjee, VSM ADG (Log), BSF |  (Dhnanjay Mishra), Comdt, SIW BSF |  (Dr M M Gosal), SSO BPR&D |  (Mukesh Panwar), Comdt SSF, MHA |
|  (Vikas Maurya), DC CISF |  (K Saha), Asstt Dir. DCPW |  (Manjunath), DC/Comm SSB |  (Harish Chandra), GSO-I Assam Rifles |
|  (Vaibhav Srivastava), AC CRPF |  (SI/Tele Sanjiv Kumar) ITBP |  (Insp/RM Manish Raj) SIW, BSF | |

Approved/Not approved


Rakesh Asthana
 Director General 21.9.2020
 Border Security Force

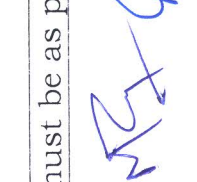
QUALITATIVE REQUIREMENT AND TRIAL DIRECTIVE OF DOOR ACCESS CONTROLLER

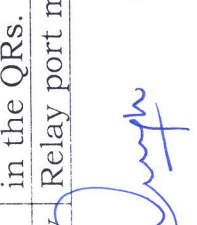
| S/NO. | DESCRIPTION | SPECIFICATIONS | Trial procedure suggested by the BOO | Result expected/desired |
|-------|---------------------------------|---|---|--|
| 1. | CPU | ARM9 32 Bit Cortex processor with an Android OS | To be physically checked by the BOO. OEM will submit certificate. | CPU must be as per the specification mentioned in the QRs. |
| 2. | Memory | 2GB | To be physically checked by the BOO. OEM will submit certificate | Memory must be as per the specification mentioned in the QRs. |
| 3. | Card Holders (Storage capacity) | Min 200000 | OEM will submit certificate. | Card Holders (storage capacity) must be as per the specification mentioned in the QRs. |
| 4. | Transactions Recorded | Min 100000 | OEM will submit certificate. | Transactions recorded must be as per the specification mentioned in the QRs. |
| 5. | Reader Support (Dual/Four) | Biometric (Fingerprint/Retina Scan/Iris Scan/ Face recognition), PIN, Proximity, Smart Card Reader SCOSTA-CL (latest) | To be physically checked by the BOO. OEM will submit certificate. | Reader support (dual/four) must be as per the specification mentioned in the QRs. |
| 6. | Data format (protocol) | Weigand upto 178 bit | OEM will submit certificate. | Data format (protocol) must be as per the specification mentioned in the QRs. |
| 7. | Maximum Controllers in Network | 4096 per server | OEM will submit certificate. | Maximum controller in network must be as per the specification mentioned in the QRs. |
| 8. | LCD (CM) | 16x2 character, Mounted | To be physically checked by the BOO. OEM will submit certificate | LCD (cm) must be as per the specification mentioned in the QRs. |
| 9. | On board Buzzer | 1 Minimum | To be physically checked by the BOO. | On board buzzer must be as per the specification mentioned in the QRs. |
| 10. | On board Menu Buttons | For controller configuration, no external keypad require | To be physically checked by the BOO. | On board menu buttons must be as per the |

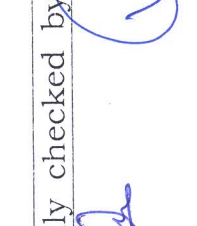
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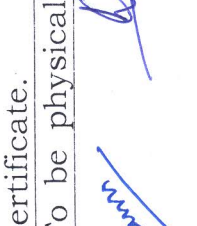
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| | | | | specification mentioned in the QRs. |
| 11. | Input Ports | 1 Minimum | To be physically checked by the BOO. | Input ports must be as per the specification mentioned in the QRs. |
| 12. | Dedicated input for fire alarm system integration | 1 Minimum | To be physically checked by the BOO. OEM will submit certificate | Dedicated input for fire alarm system integration must be as per the specification mentioned in the QRs. |
| 13. | Dedicated input for emergency closing of doors | 1 Minimum | To be physically checked by the BOO. OEM will submit certificate | Dedicated input for emergency closing of doors must be as per the specification mentioned in the QRs. |
| 14. | Dedicated input for tamper | 1 minimum | To be physically checked by the BOO. OEM will submit certificate | Dedicated input for tamper must be as per the specification mentioned in the QRs. |
| 15. | Spare programmable replay port | 1 Minimum | To be physically checked by the BOO. OEM will submit certificate | Spare programmable replay port must be as per the specification mentioned in the QRs. |
| 16. | Egress switch connections | 2 Minimum 4 Maximum | To be physically checked by the BOO. OEM will submit certificate | Egress switch connections must be as per the specification mentioned in the QRs. |
| 17. | Door feedback inputs | 2 Minimum 4 Maximum | To be physically checked by the BOO. OEM will submit certificate | Door feedback inputs must be as per the specification mentioned in the QRs. |
| 18. | Reader Ports | 2 Minimum 4 Maximum | To be physically checked by the BOO. OEM will submit certificate. | Reader ports must be as per the specification mentioned in the QRs. |
| 19. | Output Ports | Min-1 | To be physically checked by the BOO. OEM will submit certificate. | Output ports must be as per the specification mentioned in the QRs. |
| 20. | Relay Port | 2 Minimum | To be physically checked by | Relay port must be as per the |

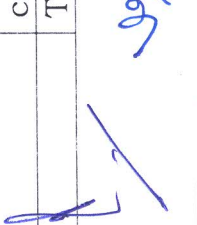


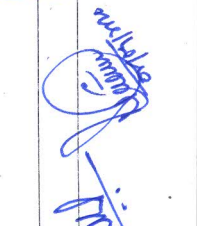


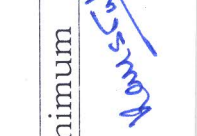


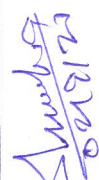


















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| | | 4 Maximum | | the BOO. OEM will submit certificate | specification mentioned in the QRs. |
| 21. | Programmable Auxiliary Port | 2 Minimum 4 Maximum | | To be physically checked by the BOO. | Programmable auxiliary port must be as per the specification mentioned in the QRs. |
| 22. | Group & Local Anti-pass Back (APB) | Available | | To be physically checked by the BOO. | Group & local anti-pass back (APB) must be as per the specification mentioned in the QRs. |
| 23. | Time Zone | 32 Time zones-expandable upto 128 | | OEM will submit certificate. | Time zone must be as per the specification mentioned in the QRs. |
| 24. | Holidays | 32-expandable upto 128 | | OEM will submit certificate. | Holidays must be as per the specification mentioned in the QRs. |
| 25. | Reader LED ON | Less than 05 seconds | | To be physically checked by the BOO. OEM will submit certificate. | Reader LED on must be as per the specification mentioned in the QRs. |
| 26. | Reader Beep On | Less than 05 seconds | | To be physically checked by the BOO. OEM will submit certificate. | Reader Beep on must be as per the specification mentioned in the QRs. |
| 27. | Door Control Timing | Less than 05 seconds | | To be physically checked by the BOO. OEM will submit certificate. | Door Control Timing must be as per the specification mentioned in the QRs. |
| 28. | Door Open timing | Less than 05 seconds | | To be physically checked by the BOO. OEM will submit certificate. | Door Open timing must be as per the specification mentioned in the QRs. |
| 29. | Door open feedback delay | Less than 05 seconds | | To be physically checked by the BOO. OEM will submit certificate. | Door open feedback delay must be as per the specification mentioned in the QRs. |
| 30. | Read only mode, Remote Monitoring of transaction events | Using Telnet | | To be physically checked by the BOO. OEM will submit certificate. | Read only mode, remote monitoring of transaction events must be as per the specification mentioned in the QRs. |

Dayan
RF


Samir


Manoj
Manoj


Shankar
Shankar

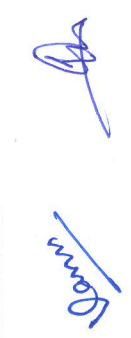
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| | | controller upto 5 IP locations | the BOO. OEM will submit certificate. | the specification mentioned in the QRs. |
| 39. | Auto-Reset of Controller | Available for a. No Communication b. On Day change | To be physically checked by the BOO. OEM will submit certificate. | Auto-reset of controller must be as per the specification mentioned in the QRs. |
| 40. | Password Level for Controller Configuration | 3 main level are available a. Installer level b. Admin level c. User level | To be physically checked by the BOO. OEM will submit certificate. | Password level for controller configuration must be as per the specification mentioned in the QRs. |
| 41. | Power (Logic) | 12 V | Firm has to submit National/International accredited Lab test report. | Power (Logic) must be as per the specification mentioned in the QRs. |
| 42. | Power (lock) | 12V | Firm has to submit National/International accredited Lab test report. | Power (lock) must be as per the specification mentioned in the QRs. |
| 43. | Operating environment range | -15°C to 65°C, 10% to 90% of Humidity | Firm has to submit National/International accredited Lab test report. | Operating environment range must be as per the specification mentioned in the QRs. |
| 44. | Mounting | 9 screw mount 2 screw Hanging | To be physically checked by the BOO. OEM will submit certificate. | Mounting must be as per the specification mentioned in the QRs. |
| 45. | Weather protection | IP54 or IP65 or IP67 (To be decided by the user department at the time of indent) | To be physically checked by the BOO. OEM will submit certificate. | Weather protection must be as per the specification mentioned in the QRs. |
| 46. | Dimensions | To be decided by the user department at the time of indent. | To be physically checked by the BOO. OEM will submit certificate. | Dimensions must be as per the requirement of the user. |
| 47. | Enclosure | Provision to mount 12VAH battery with battery charger | To be physically checked by the BOO. OEM will submit certificate. | Enclosure must be as per the specification mentioned in the QRs. |
| 48. | Application | For Photo Display | To be physically checked by the BOO. OEM will submit certificate. | Application must be as per the specification mentioned in the QRs. |



 Anubha
 Project Manager


 Anshu
 Project Manager


 Anshu
 Project Manager


 Anshu
 Project Manager


 Anshu
 Project Manager

105

| | | | | |
|-----|-----------|-----------------------------|------------------------------|--|
| 49. | Approvals | CE, ISO 9001-2000 certified | OEM will submit certificate. | Approvals must be as per the specification mentioned in the QRs. |
|-----|-----------|-----------------------------|------------------------------|--|

~~S S Chahar, VSM
ADG (Log), BSF~~

~~Dhananjay Mishra,
Comdt, SIW BSF~~

~~(Dr M M Gosal), SSO
BPR&D~~

~~(Mukesh Panwar), Comdt
SSF, MHA~~

(Vikas Maurya), DC
CISF

(K Saha), Asstt Dir.
DCPW

(Manjmath), DC/Comm
SSB

(Harish Chandra), GSO-I
Assam Rifles

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CRPF

(SI/Tele Sanjiv Kumar)
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(Insp/RM Manish Raj)
SIW, BSF

Approved/Not approved

Rakesh Asthana
Director General 21.9.2020
Border Security Force