



नेपाल सरकार
गृह मन्त्रालय

राष्ट्रिय परिचयपत्र तथा पञ्जीकरण विभाग

(सामाजिक सुरक्षा शाखा)

पत्र संख्या : २०८१/०८२

चलानी नं. : २४

फोन : ८८११४६१
८८६ ८६ ८६
८८६ २०४६
८२००८९४
फ्याक्स : ४२०००९८

सिंहदरवार काठमाडौं

Website : www.donidcr.gov.np

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vital@donidcr.gov.np

२०८१/०५/०२ गते

ने.सं.११४४

श्री स्थानीय तह सबै (७५३)।

बिषय:-Biometric Scanner Device सम्बन्धमा ।

प्रस्तुत विषयमा यस विभागको पत्र संख्या २०८०/८१ चलानी नं. ३९३ मिति २०८१/०२/०४ गतेको Biometric Scanner Device व्यवस्थापन गर्ने सम्बन्धी पत्र अवगतै छ । सो सन्दर्भमा विभागले उपलब्ध गराएको Specification नमूना मात्र भएको हुँदा सम्बन्धित स्थानीय तहले व्यवस्थापन गर्नुपर्ने Biometric Scanner Device को Specification सोही स्थानीय तहको आवश्यकता अनुसार परिमार्जन गर्न सक्ने जानकारी गराईन्छ साथै संलग्न नमूना Specification देहाय बमोजिम भएको व्यहोरा समेत अनुरोध छ ।

(जुना खड्का खत्री)

शाखा अधिकृत



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Sample Specification of Biometric Scanner (Option 1)

SN	Parameters	Requirement	Compliance(Y/N)
1	Brand	To be specified by bidder	
2	Model	To be specified by bidder	
3	Form Factor	Fingerprint scanner	
4	Industry Standards	ISO 19794-4 or WSQ compressed	
5	Information security standards	FIPS 201	
6	Smart Detections	Biometric detection with auto power-off	
7	Protections	Short circuit protection	
8	USB interface	USB 2.0 or 3.0	
9	Operating Systems	Windows	
10	Driver	Driver to read data from operating system	
11	Compliance	FBI PIV IQS/ISO 19794-4: 2011(Annex B) and MINEX & FIPS 201 compliant algorithms	
12	Scanner Type	Optical/CMOS Scanner	
13	Image Resolution	500 dpi horizontal and vertical, with 256 grey levels or higher	
14	Image format	Available output formats include RAW, ISO 19794-4 or WSQ compressed (Under license) images	
15	Fake Finger detection	Fake finger detection should be available to detect fake fingers made from silicone, latex, Plasticine, Kapton, transparent film, rubber, Play-Doh, Graphite or Paper, etc.	
16	Anti-Latency Feature	An anti-latency feature to detect fingerprint traces and eliminate/reject latent prints originating from recent scans	
17	Power	Powered by Same USB used for interface	
18	Warranty	Three-year warranty	
19	APIs/Web Interface	All the APIs required for developing custom software using these readers must be available Web based interface/program should be provided which should be able to capture fingerprint from the device and post it to the VERSP-MIS system for biometric verification	



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सिंहदरबार, काठमाडौं

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(Option 2: Match on Card)

SN	Parameters	Requirement	Compliance(Y/N)
1	Brand	To be specified by bidder	
2	Model	To be specified by bidder	
3	Form Factor	Contact smart card reader with integrated fingerprint scanner	
4	Industry Standards	ISO 7816, USB CCID, PC/SC	
5	Information security standards	FIPS 201	
6	Card Size	ID-1	
7	Protocols	T=0; T=1	
8	Insertion Cycles	At least 100,000	
9	Smart Detections	Smart Card detection Movement detection with auto power-off	
10	Protections	Short circuit protection in all pins	
11	Pin Handling	8 Pin Handling, c4/c8 supported	
12	USB interface	USB 2.0 or 3.0	
13	Operating Systems	Windows	
14	Driver	CCID native driver from operating system	
15	Supported APIs	PC/SC-API	
16	Compliance	FBI PIV IQS/ISO 19794-4: 2011(Annex B) and MINEX & FIPS 201 compliant algorithms	
17	Scanner Type	Optical/CMOS Scanner	
18	Image Resolution	500 dpi horizontal and vertical, with 256 grey levels or higher	
19	Image format	Available output formats include RAW, ISO 19794-4 or WSQ compressed (Under license) images	
20	Fake Finger detection	Fake finger detection should be available to detect fake fingers made from silicone, latex, Plasticine, Kapton, transparent film, rubber, Play-Doh, Graphite or Paper, etc	
21	Anti-Latency Feature	An anti-latency feature to detect fingerprint traces and eliminate/reject latent prints originating from recent scans	
22	Match on Card (MOC)	Match-on-Card Processing capabilities shall be available in the proposed device.	
23	Power	Powered by Same USB used for	



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24	Warranty	Three-year manufacturer's warranty	
25	APIs	All the APIs required for developing custom software using these readers must be available Web based interface/program should be provided which should be able to capture fingerprint from the device and post it to the VERSP-MIS system for biometric verification	