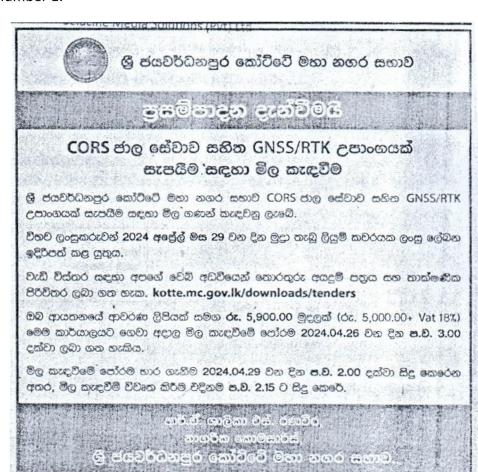
Request for supply of single set of GNSS device along with CORS network service

- 1. Single set of GNSS/RTK receiver, Data collector/ controller, antenna, mount pole, other related accessories as prescribed on the Technical Specification provided by Survey Department of Sri Lanka.
- 2. 3 year CORS network service, compatible to the set of item listed under above number 1.





<u>ஸீ ஜயவர்தனபுர கோட்டே மாநகர சபை</u>

பெறுகை அறிவித்தல்

CORS பிணைய சேவையுடன் GNSS/RTK கருவிகளை வழங்குவதற்கான விலைமனுக்கோரல்

றீ ஜயவர்தனபுர கோட்டே மாநகர சபையின் CORS பிடைப் சேவையுட்டே GNSS/RTK கருவிகளை வழங்குவதற்கான விலைமனுக்கோரல்.

சாத்தியமான மனுதாரர்கள் மனு ஆவணங்களை முத்திரை பொறிக்கப்பட்ட கடித உறையிலிட்டு 2024.04.29 ஆம் திகதி சமர்ப்பிக்க வேண்டும்.

மேலதிக தகவல்கள், விண்ணப்படிவம் மற்றும் தொழில்நுட்ப விபரக்குறிப்புகளை எமது இணையதளமான kotte.mc.gov.lk/downloads/tenders இருந்து பெற்றுக்கொள்ளலாம்.

2024.04.26 ஆம் திகதி பி.ப.3.00 மணி வரை, உங்கள் நிறுவனத்தின் அட்டை கடிதத்துடன் ரு.5,900.00 (ரு.5,000.00+18% வரி உட்பட) தொகையை இந்த அலுவலகத்தில் செலுத்தி, விலைகோரலுக்கான தொடர்புடைய ஆவணப் படிவங்களை பெற்றுக்கொள்ளலாம்

விலைமனுக்கோரலுக்கான ஆவணப் படிவம் 2024.04.29 ஆம் திகதி பி.ப.2.00 மணி வரை ஏற்றுக்கொள்ளப்படுவதுடன், அதே நாளில் பி.ப. 02.15 மணிக்கு மனுக்கள் திறக்கப்படும்.

> ஆர், ஏ. ஹாலிக்கா எஸ். இரணவீர. நகராட்சித் தலைவர். ஹீ ஜயவர்தனபுர கோட்டே மாநகர சபை

Request for supply of single set of GNSS device along with CORS network service

- 1. Single set of GNSS/RTK receiver, Data collector/ controller, antenna, mount pole, other related accessories as prescribed on the Technical Specification provided by Survey Department of Sri Lanka.
- 2. 3 year CORS network service, compatible to the set of item listed under above number 1.



Sri Jayawardhanapura Kotte Municipal Council

Proceed Capital Notice

Calling quotations for Supply of GNSS/RTK device with CORS Network Service

Quotations are called to supply of GNSS/RTK device with CORS network service for Sri Jayawardhanapura Kotte Municipal Council.

Potential bidders should submit the bid documents in a sealed envelope on 29th April 2024.

Further Information, application and technical specifications can be obtained from our website. kotte.mc.gov.lk/downloads/tenders

Relevant forms for quotations can be obtained from this office upon presenting a cover letter of your organization and paying an amount of Rs.5,900.00 (inclusive of VAT) until 3.00 p.m., 26.04.2024.

The quotations will be accepted till 2.00 p.m., 29.04.2024 and they will be opened on the same day at 2.15 p.m.

R.4. Shalika S. Fanaweera. Municipal Commissione. Sr: Javawardhanapura Kone Municipal Council.

Technical Specifications for the GNSS RTK Units - SD/2021/8A

No	Item	Requirement	Bidder's Compliance (Yes or No)	Annexure & References
1.0	Specifications for GN	SS PKT units	(1 es of No)	References
1.1	GNSS	Antenna Should be dust and waterproof.		
1.1	Receivers / Antenna	Necessary adaptors / tri-branches to mount receiver on standard tripods and poles should be capable to use for a) Static Surveys b) Base or Rover in RTK surveys with internal UHF radio		
		c) Base or Rover in GPRS mode d) Rover in CORS mode e) Post Processing Kinematics (PPK) should be specified. Should be capable to receive CORS network corrections for Network RTK (VRS, FKP, MAC etc.)		
1.2	Tracking Capabilities	GPS (L1, L2 & L5) GLONASS (L1,L2 & 13) BeiDou (B1,B2,B3) Galileo (E1,E5a, E5b) SBAS (L1 & L5) QZSS (L1,L2,L5)		-
		No of Channels – 320 or above Any other currently available system and future expansions to be specified		
1.3	Initialization	Should be < 60 sec, Last setting should be resumed		
1.4	Accuracy	Static 3mm+0.5 ppm (Hz RMS) 5mm+0.5 ppm (Vertical RMS) RTK 8mm+1ppm(Hz RMS) 15 mm+1ppm (Vertical RMS) PPK 8mm+1ppm (Hz RSM) 10mm+1ppm (Vertical RSM) Network RTK with any CORS system (VRS,FKP, etc.) 8mm+1ppm (Hz RMS) 15mm+1ppm		
1.5	Characteristics	GNSS Carrier tracking, GNSS Code measurements, Measurement Precision, Resolution GNSS measurements Fully independent code and phase measurements Tilt Sensor (IMU) Should resist to electrical interference and need to specify inclination angle		
1.6	Data Formats	GNSS receiver must be equipped to record phase and code measurements in all carriers and codes of available Global Navigation Systems Static data in RINEX 2.x, 3.x and other formats to be specified. Real Time in RTCM2.x, RTCM3.x, CMR,		

		CO. CO	T	
		CMR+, NTRIP, NMEA and other formats/ data streams to be specified. All available frequencies of positioning output should be	٧	
1.7	User Interface	All available user interfaces to be specified.	j	
		Buttons/LED's, Web Interface		
1.8	Connectors, Ports and Devices	All available connector ports & devices for connecting to CORS network RTK, Static survey, RTK survey etc. should be available and availability of other features to be specified. Base receivers should have standard connecting		
***		ports for data communication such as	4 4	6 6
		GMS/GPRS modem, Bluetooth, RS 232 port,		
		High speed USB, Radio Modem, etc. And for		
		external power supply.		
		Available ports should be specified by the		
		bidder		
1.9	Main Board	Branded Mother Board and Original Equipment		
1.9	Main Board	Manufacturer (OEM) of the GNSS receiver		
		` ′		
		should be European, USA or equivalent and		
		quoted brand should have been in the		
1.10		production for more than ten years		
1.10	Communications	Internal Data Links:		
		Radio Modem: Capable of transmitting		
		corrections to range of minimum of 4 km under		
		typical condition. Frequency range should be		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	specified and to be able to set to any frequency		Sec. part
		range Fully integrated 3.5G Modem		- 18
		(GSM/GPRS/EDGE/LTE) Wi-Fi should be built	=	
		_in with receiver and capability of supporting		
		external communication devices should be		
		specified.		
1.11	Weight and	Weight & dimensions to be specified		
	Dimensions		(1)	
1.12	Data Storage	At least 16GB memory (Internal or External or	9	
		Internal & External) is required. External		
		memory type should be specified.		
1.13	Controller	Processor: 1Ghz or more		
		Operating System: Android or Windows		
		Storage: Should be specified		
		Memory: Should be specified		
		Battery: Operating time should be 10 hours or	Tr. 1887 3	e i talikila
-	Security god	more. Battery type and Capacity of the battery		
		should be specified		
		Camera: High-resolution camera, Resolution of		
		camera should be specified.	¥	
		Screen: 5-inch diagonal touch screen with Alpha	,	
		numeric keypad and graphical day light readable		
		screen with back light.		
		Graphical view of surveyed data, satellite		
		tracked and signal strength, real time signal		
		indicator. Display local coordinates using seven		
	5	(7) parameter datum transformation and		-
		transverse Mercator Projection (Provide details		
	1	,		
		of the available map projections, datum and		

		_		,
		features of graphical display) Should have		
	•	capability to use Personal Digital Assistance		
		(PDA) as a data collector with relevant		
		software.		
		The item quoted should have GSM capability to		
		connect to base on RTK mode using Bluetooth		
		connectivity.		
1.14	Power supply	Internal Re-Chargeable power supply (Batteries		
1.14	rower suppry	should be swappable in order to interchange		
		them without disturbing the survey operation. If		
		not alternative has to be proposed) capable of		
-	į.	operating for 8 hours and more.	* .	
		Capacity of the battery should be specified.	A STATE OF THE STA	
		Necessary charges for recharging internal	and the second second	55 THE 1
		batteries (Input 100-240V AC50/60 Hz) with		
		cables. (Preferably, Chargers capable to		
		discharge batteries to Zero first and then Re-		
		charge completely)		
1.15	Cables &	Each GNSS receiver unit must have the		
	accessories	following accessories Controller, Transportation		
		container, Cable for data transferring, Tribrach		
		with optical plummet, Tripod with strap for		
		carrying, bipods, telescopic pole with circular		
		level bubble and cradle to mount controller for		1
	,	RTK surveying. Necessary cables for		
		connecting receiver for external 12V DC power		
		supply and necessary cables for data		
1	the state of the s	1	and the second	
2.0	Dogt Propaging	Should be capable of following:		
2.0	Post Processing			
	Software for rapid	Post Processing Software for rapid Static Survey	1	
	Static Survey for	for short base lines and PPK Surveys should be		
	short base lines and	in same Brand		
	PPK Surveys.	Loop closure base		
		Line processing		
		Least Squares Network Adjustment, Accuracy		
		estimation of the results generating reports of		
		processed data including loop closure/base line		
		processing, Datum transformations, Map		
		Projections, Graphical and Numerical		
		representations of Network adjustment result.		
		Exporting and Importing if RINEX data,		
		RINEX data should be able to process with the		Latin w
		purchaser (Kotte MC) post-processing software	HE ATTE	
		without any trouble or error.		
	×	All other features and functions of the software	it is	
		to be specified by the bidder.		
3.0	Environmental	Rain, dust and sand proof Operating		
3.0	Specification	Temperature between -20°C and 60°C		
	~poolitoution	All items should comply with international		
		environment standards (IP 67).		
4.0	Warranty	Minimum of 5-year Comprehensive warranty is		
4.0	vv arranty		4	
	9.5	required.		The second
		Certification of the warranty & maintenance		
		form the manufacturer should also be submitted for evaluation.		

Maintenance Plan	Bidder should be capable of handling routine		
	services including firmware and software		
	upgrading during warranty periods well as		
B	maintenance agreement period. Repair should		
8	be attended immediately. If repair period is		
r.	longer than 7days backup, equipment has to be		
	provided.		
	Availability of the spare parts for repairing the		
	quoted brand for at least 10 years from the date		
	of purchase should be confirmed.		-
1 (f) 1 (f)	Maintenance agreement plan with spare parts	75. 9 ±	7m "
	and without spare parts should be given for		
and the second of the second	another 5 years after the 5-year warranty period.		
d ·	The maintenance cost without spare parts will		
	be taken in to account for the financial		
	evaluation		
User Training	3 days purchaser should design training to users		
	who inform by purchaser.		
		services including firmware and software upgrading during warranty periods well as maintenance agreement period. Repair should be attended immediately. If repair period is longer than 7days backup, equipment has to be provided. Availability of the spare parts for repairing the quoted brand for at least 10 years from the date of purchase should be confirmed. Maintenance agreement plan with spare parts and without spare parts should be given for another 5 years after the 5-year warranty period. The maintenance cost without spare parts will be taken in to account for the financial evaluation User Training 3 days purchaser should design training to users	services including firmware and software upgrading during warranty periods well as maintenance agreement period. Repair should be attended immediately. If repair period is longer than 7days backup, equipment has to be provided. Availability of the spare parts for repairing the quoted brand for at least 10 years from the date of purchase should be confirmed. Maintenance agreement plan with spare parts and without spare parts should be given for another 5 years after the 5-year warranty period. The maintenance cost without spare parts will be taken in to account for the financial evaluation User Training 3 days purchaser should design training to users

Huliy