



**PROJECT IMPLEMENTATION UNIT (PIU)
PUNJAB URBAN LAND SYSTEMS
ENHANCEMENT (PULSE)
Punjab Land Records Authority (PLRA)
Government of the Punjab**



ADDENDUM TO REQUEST FOR BID (RFB)

**PROCUREMENT OF SURVEY DEVICES FOR GREEN PARCEL
SURVEY**

Project Implementation Unit, Punjab Urban Land Systems Enhancement Project- (PULSE) has advertised Request for Bid (RFB) document for the Procurement of Survey Devices for Green Parcel Survey Under PIU-PLRA-PULSE Project PK-PLRA-529324-GO-RFB Published in National Newspaper Jang on January 1, 2026 and Express tribune on January 08, 2026 vide IPL 230. The RFB document and advertisement are available at PULSE Website. The following amendments are hereby made in the RFB Document:

Amendment No.1:

Section VII - Schedule of Requirements (3. Technical Specifications)		
Current Specifications		Amendment
GNSS Channels		
Channels	≥ 1600	Same
GPS	L1, L1C, L2C, L2P, L5	Same
GLONASS	L1,L2,L3	Same
BDS	B1I,B2I,B3L,B1C,B2A,B2B,	Same
GALILEO	E1,E5A,E5B,E6, AltBOC	Same
SBAS	L1C,L1A	Same
Positioning output rate	1Hz~20Hz	Same
Initialization time	2~8s	<10s
Initialization reliability	> 99.99%	Same
Laser	3R green laser, ≥ 30m working range	Same
Positioning Accuracy		
Static(long observations)	Horizontal: 2.5 mm + 0.1 ppm RMS	Horizontal: 2.5 mm + 0.5 ppm RMS
	Vertical: 3 mm + 0.4 ppm RMS	Vertical: 3.5 mm + 0.5 ppm RMS
PPK	Horizontal: 3 mm + 1 ppm RMS	Same
	Vertical: 5 mm + 1 ppm RMS	Same
RTK(UHF)	Horizontal: 8 mm + 1 ppm RMS	Same
	Vertical: 15 mm + 1 ppm RMS	Same
RTK(NTRIP)	Horizontal: 8 mm + 0.5 ppm RMS	Same
	Vertical: 15 mm + 0.5 ppm RMS	Same
Laser measurement	1 cm + 5 mm/m	Same
Initialization time	2 ~ 8s	<10s
IMU	8mm+0.7 mm/°tilt	Same
IMU tilt angle	accuracy within 120°	Same

AR stakeout	Supports	Same
Hardware Performance		
Material	Magnesium aluminum alloy shell	Same
Operating temperature	-45°C~+75°C	-40°C~+65°C
Storage temperature	-55°C~+85°C	-50°C~+80°C
Humidity	100% non-condensing	Same
Waterproof/Dustproof	IP68	Same
Shock/Vibration	withstand 2meters pole, drop onto the cement ground naturally	Same
Battery	Inbuilt 7.4V 6800mAh rechargeable Lithium-ion battery	7V
Battery life	Typically, 15h(static), 12h (Rover mode optimal conditions) Laser Survey: up to 10h	Same
Communications		
I/O Port	5-PIN LEMO external power port + RS232	(optional)
	Type-C(charge + USB + OTG + Ethernet) 1 UHF antenna interface	Same
Internal UHF	2W Radio receiver and transmitter	Same
Frequency range	410-470MHz	Same
Communication protocol	Trimtalk, Lora or Farlink,	Trimtalk/Lora /Farlink or others
Communication range	12km to 15 km optimal condition	10km to 15 km optimal condition
Bluetooth	Bluetooth5.0 standard	Same
NFC Communication	Yes	Same
WI-FI Modem	802.11 b/g standard	Same
Data Storage/Transmission		
Storage	16GB SSD internal storage standard, Support external USB storage (OTG)	Same
Data format	Static data format:Rinex2.01,Rinex3.02,etc. Differential data format:CMR,RTCM2.1, RTCM2.3,RTCM3.0,RTCM3.1,RTCM3.2(recommended) GPS out put data format:NMEA0183 , Fully support NTRIP protocol	Static data format:Rinex2.01,Rinex3.02,etc. Differential data format:RTCM2.1, RTCM2.3,RTCM3.0,RTCM3.1,RTCM3.2(recommended) GPS out put data format:NMEA0183 , Fully support NTRIP protocol
Electronic bubble	Controller software can display electronic bubble, checking leveling status of the carbon pole in real-time	Same
IMU	Built-in IMU, calibration-free, 60 Degrees	Same
Camera	Front Camera: 5MP, Bottom Camera: 2MP, (Live View AR stakeout)	Same
Cloud service	The powerful cloud platform provides online services like remote	Same

	manage, firmware update, online register and etc.	
PTA Approved	Yes (for all type of communication)	Same
User Interaction		
Buttons/Indicators	Single button, Data and power indicators	Same
Web Interaction	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations	With access to Web UI via WiFi, users can monitor the receiver status and change the configurations
<u>Field Data controller for RTK GNSS</u>		
Operating System,	Android 12	Same
RAM	3GB	Same
ROM	32GB	Same
CPU	8-core	Same
Storage extension	Support 128GB extension	Same
Cellular	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B4/B5/B8	Same
	LTE-TDD: B34/B38/B39/B40/B41	Same
	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28	Same
Display	5 inches capacitive touch screen (720×1280 dpi)	Same
Camera	13.1 megapixel camera with auto-focus	(13 Megapixel)
Flash light	High light Flash LED	Same
GNSS	GPS/GLONASS/BDS	Same
Dual SIM card slot	Support two nano sim	Same
Bluetooth	V5.0	Same
WiFi	802.11a/b/g/n/ac (2412-2484MHz, 4915-5925MHz)	802.11a/b/g/n/ac
NFC	Supports	Same
Gyro Sensor	Supports	Same
Compass	Supports	Same
Full keypad	QWERTY full keypad	Same
Audio	Integrated speaker, microphone	Same
Battery	8000mAh, Operating time 15hrs	Same
Operation temperature	-20 to +55°C	Same
Storage temperature	-30°C to +70°C	Same
Waterproof/ Dustproof	IP67	Same
Shockproof	1.5m drop	Same
<u>Field software specifications</u>		
		Same
Andriod Supported	yes	Same
Point Stake Out	yes	Same
Topoghraghy and detail survey	yes	Same

Line Stake Out/ COGO	yes	Same
CAD Option	yes	Same
Static and RTK	yes	Same
Loclization and site calibration	yes	Same
Offset/Area and Perameter calculation	yes	Same
Extend line option	yes	Same
Data Out put formate	CSV, DXF, TEXT, Shapfile, Json	Same
Accessories for one SET		
Tripod Stand	Heavy Duty Tripod Stand, 5/8" thread	Heavy Duty Tripod Stand
	1.No	Same
Tribrach with Adaptor	Optical Plummet Tribrach with Adaptor	Same
	1.No	Same
GNSS Pole	2 meter Pole of GNSS Rover	Same
	2.Nos	Same
Pole Catcher	heavy Duty Catcher for GNSS Pole	Same
	2.Nos	Same
Base Extension Pole	01.No	Same
Connector for base	01.No	Same
UHF Antenna	02.Nos	Same
Charger and adaptor	03.Nos	Same

Amendment No. 2:

RFB Reference	Existing	Amendment
ITB 22.1	The deadline for Bid submission is: Date: February 04, 2026 Time: 11:00 AM	The deadline for Bid submission is: Date: February 16, 2026 Time: 11:00 AM
ITB 25.1	The Bid opening shall take place at: Committee Room PIU-PLRA, PULSE Add: 158-A, Abubakar Block, New Garden Town, Lahore. Tel: 042-37882061-3 Date: February 04, 2026 Time: immediately after submission	The Bid opening shall take place at: Committee Room PIU-PLRA, PULSE Add: 158-A, Abubakar Block, New Garden Town, Lahore. Tel: 042-37882061-3 Date: February 16, 2026 Time: immediately after submission

All other terms & conditions shall remain same. Consider this addendum, the part of RFB and submit bids accordingly.



*Procurement Specialist,
PIU-PLRA, PULSE*

Add: 158-A, Abubakar Block, New Garden Town, Lahore.

Tel: 042-37882061-3

Email: pspiupulse@punjab-zameen.gov.pk