



CORRIGENDUM-1

यू.आर.एस.सी./सार्वजनिक निविदा सूचना सं / URSC/GLOBAL TENDER NOTICE NO.E-04/26-27 10.07.2026

विषय: निविदा पूछताछ में सुधार (कैरिजेंडम) जारी करने की मंजूरी - विषय।

Sub: Approval to issue Corrigendum to Tender Enquiry - Reg

संदर्भ/Ref: URSC/GLOBAL TENDER NOTICE NO.E-04/26-27 03.07.2026

URSC/PR/IS2026-00-0435-01 - 03.07.2026

यह उपरोक्त वैश्विक निविदा - सार्वजनिक निविदा - के संबंध में है, जिसे 02.07.2026 को दो भागों में जारी किया गया था। निविदा संबंधी स्पष्टीकरण के लिए अंतिम तिथि 10.07.2026 है, और निविदा जमा करने की अंतिम तिथि 31.07.2026 है।

This has reference to the above Global Tender - Public Tender - Two part floated on 03.07.2026 with bid clarification date up to 10.07.2026 and bid submission date up to 31.07.2026.

सभी संबंधित बोलीकर्ताओं/भागीदारों से निम्नलिखित परिवर्तन को नोट करने का अनुरोध किया जाता है।

All prospective bidders/participants are requested to note the following changes:

क्र.सं. Sl. No.	कार्यक्रम In Place Of	के स्थान पर To be Read as
1	विशेषताएँ Specification	डेटा पैक आवश्यकताओं के साथ विनिर्देश। Specification with data pack requirements

क्र.सं. Sl. No.	कार्यक्रम Events	के स्थान पर In place of	ऐसा पढ़ा जाए To be read as
1	बोली स्पष्टीकरण दिनांक Bid clarification date	10.07.2026; 16:00 hrs	20.07.2026 ; 16:00 hrs
2	बोली प्रस्तुतीकरण दिनांक Bid submission date	31.07.2025; 14:00 hrs	31.07.2026 ; 14:00 hrs
3	बोली खोलने की दिनांक Bid opening date	31.07.2026; 14:30 hrs	31.07.2026 ; 14:30 hrs

Sd/-

व. प्रधान, क्रय व भंडार / Sr. Head, Purchase & Stores

SPECIFICATION FOR ULTRA STABLE OSCILLATOR (USO)

SL NO	SPECIFICATIONS	Comments /Remarks
A.	<u>DEVICE DETAILS</u>	
	The Electrical/Mechanical Specifications of the Ultra stable oscillator (USO) are as per Annexure-1.	
B.	<u>QUALITY REQUIREMENTS</u>	
1.	The USO shall be Space grade product for mission life of 10yrs minimum.	
2.	All the materials used in realizing the USO shall be of space grade and capable of meeting the Out gassing specification as per ASTM E595 with TML<1%, and CVCM <0.1%.	
3.	The USO shall meet the TID of 30krads min. & Single Event Latch up (SEL) LETth of 60MeV.cm ² /mg (min).	
4.	All space qualified processes shall be used in the realization of USO.	
5.	All the EEE Components used in the USO shall be of Hi-rel space grade compliant to MIL/ESCC.	
6.	The USO shall meet the EMI/EMC requirements at system level.	
7.	All the devices shall be marked, serialized and screened as per Table-1 of Annexure-2.	
8.	The manufacturer shall generate SCD/ICD and the same shall be submitted to ISRO/URSC for review/approval before the start of production.	
C.	<u>DATAPACK REQUIREMENTS</u>	
	The following Data in soft copy (compact disk) shall be supplied along with the devices	
1.	Bill of material (BOM) and DCL	
2.	Screening results by attributes and variables.	
3.	Generic Qualification, Radiation test report, Thermal Analysis report, Mechanical Analysis, FMECA report, EMI/EMC test report & Derating Analysis report.	
4.	Certificate of Conformance issued by the manufacturer.	
D.	<u>OTHER REQUIREMENTS</u>	
1.	Latest data sheet of the USO shall be provided along with the quote.	
2.	Devices shall be supplied from lots with same data code. The devices shall be drawn from lots manufactured within 2 years of the date of shipment.	
3.	Devices shall be packed in ESD safe individual packages.	
4.	Provide details of space heritage for the offered or similar parts	
5.	Report to URSC all NCR/DCN (Document Change Notice) during procurement/Testing.	
6.	Only OEM/OEM authorized suppliers for the above space grade components will be considered. In case of authorized supplier, necessary certificate from the OEM shall be enclosed along with the offer	

Specifications of Ultra Stable Oscillator (USO)

Sl. No	Parameters	Specification	Comments/ Remarks
1.	Nominal frequency output (single Frequency)	10 MHz	
2.	Output signal	Sine wave	
3.	Supply voltage	Single, +15V $\pm$ 5%	
4.	Initial frequency accuracy	$\pm 5.0\text{E-}8$	
5.	Phase noise (for O/P 10 MHz), For any higher O/P Frequency add $20\log_{10}(F_{\text{out}}(\text{MHz})/10$	a) -115 dBC/Hz or better at 1Hz b) -135 dBC/Hz or better at 10Hz c) -140 dBC/Hz or better at 100Hz d) -145 dBC/Hz or better at 10kHz	
6.	Frequency stability (Allan deviation)	a) $< 3\text{E-}13$ at 1s b) $< 3\text{E-}13$ at 10s c) $< 5\text{E-}13$ at 100s d) $< 8\text{E-}13$ at 1000s	
7.	Frequency aging	$\pm 1.5\text{E-}8/\text{year}$	
8.	Operating temperature	0 °C to +45 °C (Typical)	
9.	Non-operating temperature	-40 °C to +80 °C (Typical)	
10.	Output Signal level	≥ 0 dBm	
11.	Output impedance	50 Ω	
12.	Output interface	SMA	
13.	Frequency adjustment (Frequency pulling)	$\pm 5.0\text{E-}7$	
14.	G-Sensitivity	$\leq \pm 1.5$ ppb/g	
15.	Frequency control	Through Frequency control voltage or Electronic frequency control	
16.	Harmonics	-50 dBc or better	
17.	Spurious	≤ -80 dBc	
18.	Power consumption	≤ 12 W (During Warm up) ≤ 7 W (During operation)	
19.	Mass	≤ 2 Kg	

TABLE-1. SCREENING TESTS MATRIX FOR USO

Sl. No	Test	MIL-STD/Method/Condition	Comments/ Remarks
1.	Marking & Serialization	Mfr Part Number, Lot/Date code, serial no., etc.	
2.	Initial Electrical Measurements	As per the device specifications	
3.	Random vibration	MIL-STD-202, method 214, Condition I-D, duration 3 min per axis	
4.	Electrical Measurements at ambient	As per the device specifications	
5.	Thermal Vacuum test including performances	As per Profile-1 below @ $\leq 10E^{-5}$ torr. The USO shall be powered and the frequency, the output level, power consumption, the pressure and the temperature are to be continuously monitored and recorded	
6.	External Visual Inspection	MIL-STD-883, TM 2009	

Profile-1 Thermovacuum Test