

	SPACE APPLICATIONS CENTRE (ISRO) 200W Ku-BAND TWTA/LTWT A	January-2025
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Make In India Clause
(Applicable only for the vendors claiming Make in India (Class-I or Class-II))

SR NO.	DESCRIPTION	C/NC	VENDOR COMMENTS																																																												
1.0	<p>SCOPE OF THE PROCUREMENT:</p> <p>The current requirement is for <i>Ku-band 200 Watts LTWTA & TWTA</i> for use in communication satellite, to provide operational services to users, hence this procurement is not a developmental project. Only Space qualified product with sufficient space heritage should be quoted against this enquiry.</p> <p>The realization of LTWTA & TWTA can be broadly comprised of following activities – Design, Fabrication, Optimization, Integration and Flight Acceptance / Proto-flight testing.</p> <ul style="list-style-type: none">i. The design of product offered must have successfully undergone space Qualification testing and have heritage of long life operational satellite missions.ii. The sub-modules of the LTWTA & TWTA should be realized using space grade parts/ materials; by operators qualified for space grade fabrication.iii. The integration of sub-modules and optimization to ensure LTWTA & TWTA units which are compliant to the performance requirements.iv. Testing of all LTWTA & TWTA units, as per the requirements of this RFP. <p>Vendors proposing participation under “Make in India” initiative shall meet following mandatory requirements.</p> <p>a) Vendor shall have necessary technical expertise to build, optimize, test and deliver high reliability LTWTA/TWTA. Necessary documents in proof of design heritage, and qualification report shall be supplied.</p> <p>b) Vendors shall clearly identify the percentage contribution of the Indian and any foreign technical collaborators. This shall be identified for each of the sub-modules (like TWT, EPC, Linearizer(as applicable) etc); for each stage of realization.</p> <table><tr><th>Activity</th><th colspan="3">Design content of sub-Module (Should have space Qualification & Heritage)</th><th colspan="3">Sub-Module Fabrication and optimization</th><th colspan="3">Sub-Module Testing</th><th>Integration of LTWTA/TWTA</th><th>Testing of LTWTA/TWTA</th></tr><tr><th>Module name>>>></th><th>TWT</th><th>EPC</th><th>Lin</th><th>TWT</th><th>EPC</th><th>Lin</th><th>TWT</th><th>EPC</th><th>Lin</th><th></th><th></th></tr><tr><td>Indian Vendor</td><td>X %</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Foreign tech collaborator (if any)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Sub-vendors (if any)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Activity	Design content of sub-Module (Should have space Qualification & Heritage)			Sub-Module Fabrication and optimization			Sub-Module Testing			Integration of LTWTA/TWTA	Testing of LTWTA/TWTA	Module name>>>>	TWT	EPC	Lin	TWT	EPC	Lin	TWT	EPC	Lin			Indian Vendor	X %											Foreign tech collaborator (if any)												Sub-vendors (if any)													
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	<p>c) Vendor shall give details of capability in terms of past Heritage of similar space grade microwave systems, Technical Knowhow, Facilities and Manpower (qualified fabricators & inspectors), for performing each activity locally. Following shall be supplied in support</p> <ol style="list-style-type: none"> 1) Certificates of fabrication line & qualified man power 2) Previous PO/contract copies for supply of Space grade systems 3) Test facilities to carryout required test <p>d) Foreign technical collaborator is required to confirm that they will support to Indian vendor for at least 5 years after delivery and this letter shall be attached along with technical bid.</p> <p>e) OEM/Foreign Collaborator to certify the technical contribution or value addition by Vendor in India, as specified in Pt. No. (b) above. OEM/ Foreign Collaborator shall also certify that integrated system (after claimed value addition in India) will meet the RFP requirements and warranty will be in place for the offered integrated unit. Vendor shall submit this certificate from OEM along with technical bid without which the offer cannot be accepted.</p> <p>f) In case any minor modifications are proposed on previously Qualified product/ sub-modules, suitable plan for incremental qualification / certification required with time lines shall be submitted along with bid. Acceptability of such test plan is at SAC discretion. Such additional qualifications shall not affect the proposed delivery schedule.</p>		
2.0	<p>General Terms & Conditions</p> <p>If the submitted bids are not directly from OEM, participating vendor should submit following documents: -</p> <ol style="list-style-type: none"> 1. Technical compliance offered by vendor should be vetted/ by foreign technical collaborator. 2. Design & fabrication technology details of make in India part of the offered product. 3. The offer should include letter from foreign technical collaborator confirming: <ul style="list-style-type: none"> • Facilities and expertise available with Indian vendor is adequate for design/developing/testing of the indigenous content. <p>OEM's Intent of technical support to Indian vendor, and this would continue for at least 5 years after delivery.</p>		