

**Project Name: “Indian Open Source Software Platform for an end-to-end 5G Network (IOS-5GN)”
jointly implemented by FSID-IISc, FITT-IITD and C-DAC Trivandrum**

Project Code: FT/2023/11/13

Supply of Open Source based 3GPP/O-RAN Compliant 5G Radio Access Network Product

RFP Reference of Bid Query			Bid Query Description	Response to Bid-Query
Bid Query ID	Clause No/ Page	Description / Reference		
1	2.A.b (SoW/SoD/System) & Annexure 2 Sno2	As per 2.A.b the 7.2 RU Radiated Pw mentioned is 100mW and as per Annexure 2.2 its is mentioned as 250mW	Pls clarify the RU radiated power needed and to be demonstrated	Information mentioned in scope work is correct & Annex-2 stands corrected in accordance .
2	2.B Technical Requirement (Capacity Requirement)	32 Simultaneous Connected Users	Can we demonstrate using 32 simulated users as its not feasible to organise for 32 UE	No change: Yes
3	2.B Testing Requirement (Testing Environment)	Clause 1 - 7	We would like to use IITD lab setup and testing tools to demonstrate our differentiated RAN Software. We will share our software source code, build instructions etc to TEC for evaluation. Kindly permit using IITD Lab resources for Testing / PoC	No change: Only OAI 5G Core from IITD lab is allowed to be used. Rest of the Items to be arranged by Vendor themselves
4	Annexure 5	BOQ	Kindly specify the Qty needed for item no 2,3,4	for item 2 , Qty 2 item 3 & 4 as per the Scope of work refer section 2
5	RFP Clause No 5	Delivery Timeline and Payment Terms	As part of the delivery, CU/DU/RU hardware is to be delivered. Our Integrated RAN product is based on COTS hardware and delivery period of COTS HW is 8 - 10 weeks. It is request to provide additional 7weeks for delivery instead of T3=T1+3W	No change

6	RFP Clause no 10.6	The Successful bidder will have to submit Performance Bank Guarantee (PBG) @ 3% of the tender value in the form of DD drawn in favor of the MD FITT, payable at New Delhi within ten (2) days from the date of award of the contract. The submitted PBG should be valid for 12 months	As per RFP clause no 5, PBG to be deposited within 2 days. Kindly clarify the duration in which PBG is to be submitted.	No change: 2 days
7	Refer Page 1 of RFP	Mode of Bid submission: In addition Hardcopy has to be sent at the address Financial Bid: Hard copy has to be submitted.	It is requested to accept proposal (technical and financial) by soft copy only. Password protected pdf copy can be provided to the bid evaluation committee.	No change
8	Page 3	Introduction	is RFP scope to deliver the derivative work for lab testing only or is it for commercial grade ?	No change: Introduction explains the requirements , the RFP asks this start base requirements for further derivative work considering the Annexure 1 & 2 clarifying the expectations of compliance status & actual requirements for POC demo.
9	Page 3	Introduction	s this program overall for 2 Years?	No change: yes
10	Page 5	Scope of Delivery B	Scope of these deliverables enhancement are for derivative work only and no change in base release of the SDG, Release build exist document	No change ; System description Documents of the entier RAN as per B-a & description of the Software changes and procedure for relase build as per B-b are required
11	Page 5	C. Software	what is mean of First System delivery and what is date for first system delivery and scope of first system delivery	No change: First Delivery is per RFP deliverable BID schedule on page 2 referring to Technical requirements mentioned in Annexure 1 & 2. the same has to be showcased for Technical evaluation as per Bid Schedule. Second delivery includes software upgrade as defined page 4 , Section 2-C-b.
12	Page 6	Scope of Delivery D	Since, as per scope it is already end to end system integrated with open 5G Core network so what is the scope of SI here and what expertise of 3 resources are required here, is it SI, CU, DU or PHY SW development and enhancement	No change: Relevant Technical Services (3 Resources) for 6 months for system integration and development activities including L1, L2 & L3 of open source based Radio Access network.

13	Page 6	Stability Requirements	Since COTS RRU is used here, like NI B210 and other third party RRU with 7.2x so in case if RRU goes faulty or any issue at RRU side then it shall not be considered fail, obviously root cause will be shared to prove it is RRU or SW fault. If bidder needs to consider the stability of SDR RRU and 7.2x split RRU then it will be considered an additional scope of work	No change
14	Page 6	testing Requirements	Can bidder use any other CN e.g., open 5GS and help to arrange the same in IITD lab instead of Open OAI 5G CN	No change ; Yes Bidder may choose any Core Network for demonstrating all the requirements as per Tender requirements
15	Page 9	Delivery Timeline and Payment Terms	Does it mean complete delivery shall be made on T3= T1+3W (~4 week time once the PO is issued)	No change
16	Page 11	Furthermore, the gNB and UE support A) "noS1 " mode (DL and UL): 1. creates TUN interface to PDCP to inject and receive user- place traffic 2. No connection to the core network	What is the exact requirement here? Is this kind of development test environment?	No change: Current Compliance status is asked, whatever are limitations if any can be stated in additional remarks.
17	Page 13	MAC downlink scheduler 1. phy-test scheduler (fixed allocation and usable also without UE)	What is the requirement for Item-1 in E-2-E test setup?	No change: Current Compliance status is asked, whatever are limitations if any can be stated in additional remarks.
18	page 13	MAC uplink scheduler 1. phy-test scheduler (fixed allocation)	What is the requirement for Item-1 in E-2-E test setup?	No change: Current Compliance status is asked, whatever are limitations if any can be stated in additional remarks.
19	Page 14	gNB XNAP , gNB X2AP	Is NSA also in scope or it is for SA mode only	No change: Current Compliance status is asked, whatever are limitations if any can be stated in additional remarks.
20	Page 16	gNB E1AP	s CUPS needed for Test cases and E2E setup	No change: Current Compliance status is asked, whatever are limitations if any can be stated in additional remarks.
21	Page 17	O DU Low Project	What is the requirement here?	No change: Current Compliance status is asked, whatever are limitations if any can be stated in additional remarks.

22	Page 17	Simulations (SIM)	What is the requirement here?	No change: Current Compliance status is asked, whatever are limitations if any can be stated in additional remarks.
23	Page 17	Service Management and Orchestration(SMO)	is SMO also scope in this RFP ? Or it is from third party	No change: Current Compliance status is asked, whatever are limitations if any can be stated in additional remarks.