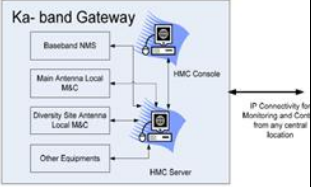


Pre Bid Clarifications for GSAT-11 Ground System – SAC

S. No.	Tender Reference	Query	Reply
1.	 <p>Pg. 31 and 48</p>	<p>As per clause at page 31 All RF equipment shall have M&amp;C facility for remote control operation through Computer.</p> <p>Centralized Gateway equipment (all RF equipment) Hub Monitoring and Control (HMC) facility with IP based solution for remote operation shall be provided. Hot redundant HMC system with automatic switchover is to be supplied by the vendor.</p> <p>As per the Block Diagram Fig 4 at page 48 Baseband NMS arrow terminates into HMC server, whereas, it says HMC is independent of Baseband NMS and also in Sr. Nos. 1,2 SAC says centralized management of only RF equipments</p>	<p><b>HMC:</b> It should be fully hot redundant system (1:1) with automatic switchover in case of failure. It does the monitoring and display of RF parameters, Antenna control system Parameters, and RFEH environmental parameters with provision for logging of data.</p> <p><b>NMS:</b> NMS at each Gateway should monitor and control all the designated baseband subsystems in 1:1 hot redundant configuration.</p> <p>Both HMC and NMS are independent systems, however, inter-communication between these two systems will be required. Over and above, all HMCs and NMS of four gateways should be accessible from an alternate central location (may be any location of the Purchaser's choice; other than all four gateways also) which has IP reachability to gateways.</p>
2.		<p>In S.No.1 of Optional Items, it is mentioned that "Delta price for every additional 1 carrier upgradation" shall be mentioned.</p> <p>We understand that SAC(ISRO) desires unit price for one additional carrier upgradation from (1+1) or (4+1) configuration. If not, it is requested to cap the no. of upgradations to a specific level.</p> <p>Also, it may please be noted that every incremental</p>	<p>Gateway baseband has the following two options:</p> <p><b>Option-1:</b> Each Gateway offered should be capable of handling 4 Primaries and 1 redundant (4:1) out-route carriers.</p> <p>Total no. of Primary out-route carrier should be upgradable to 8 primaries and 1 redundant (8:1) out-route carriers in future with additional hardware in steps of 1 out-route carrier. (i.e. 4:1, 5:1, 6:1, 7:1 &amp; 8:1)</p> <p><b>Option-2:</b></p>

		upgradation shall result in variable cost due to variable hardware requirements per carrier upgradation.	<p>1 primary and 1 redundant (1:1) out-route carrier; Upgradable up to 8 primaries and 1 redundant (8:1) out-route carriers, in steps of 1 out-route carrier (i.e. 1:1, 2:1, 3:1 ...and so on up to... 8:1). Hence, the cap on maximum number of upgradations is specified.</p> <p>L-1 will be decided on selected configuration at the time of technical evaluation.</p>
3.		In S.No.3 of Optional Items, it is requested to kindly confirm that prices to be quoted shall be for supply only and no cost towards installation, commissioning, warranty or CAMC is to be quoted. Also, please confirm that RUTs are to be delivered at four main gateways. Each gateway having proportionate distribution of RUTs.	Vendor is required to quote for RUTs prices and their transportation, installation, commissioning, CAMC charges zone-wise and on pro-rata basis (As per attached Table-E1 & E2 of the RFP). Number of RUTs per zone will be communicated later.
4.		<p>SAC(ISRO) vide email dated 24.07.2017 notified that RUTs are to be delivered at four main gateway locations (Clarification S.No.3). In this regard, kindly confirm the following with respect to Table-E2:</p> <p><b>a.</b> Transportation of RUTs from four main gateway locations to their respective installation location shall be responsibility of SAC(ISRO) and not the bidder.</p> <p><b>b.</b> Table-E2 wherein transportation cost is to be quoted zone-wise is now redundant, post this clarification.</p> <p><b>c.</b> RUT distribution per gateway location may please be provided. No. of RUTs to be delivered per</p>	<p>Even though earlier email dated 24.07.2017 notified that RUTs are to be delivered at four main gateway locations, exact locations of RUTs will be intimated at the time of delivery. Hence, vendor is requested to give the prices of RUTs, it's transportation, installation, commissioning, CAMC break-up on zone-wise and pro-rata basis.</p> <p><b>a.</b> Transportation of RUTs to their respective installation locations shall be responsibility of the bidder.</p> <p><b>b.</b> It is still valid. Transportation cost to be quoted zone-wise as per Table-E2 in RFP.</p> <p><b>c.</b> Distribution of RUTs not available and will be provided at later point of time.</p>

		gateway location is required to quote transportation cost. <b>d.</b> RUT distribution per zone may please be provided. No. of RUTs to be installed/maintained per zone is required to quote cost towards Installation, Commissioning and CAMC.	<b>d.</b> Vendor should quote the prices of RUTs, it's transportation, installation, commissioning, CAMC zone-wise and on pro-rata basis. No. of RUTs per zone will be communicated later.
		In Annexure-5: Price Bid Format, Price to be quoted under column 'Price in INR' shall be the <b>Total Price</b> of corresponding rows.	Yes. Bidder should also provide the cost break up as per <b>Table</b> mentioned in each row.
		In Annexure-5: Price Bid Format, Price to be quoted against row 2, 3, 4 & 7 shall be inclusive of following cost: <b>a.</b> Material Cost <b>b.</b> Charges towards transportation/ freight of material to the four gateway locations. <b>c.</b> Charges towards installation & commissioning of respective subsystem at site. <b>d.</b> Charges towards 3 years on-site warranty support.	Yes. Price should be inclusive of all listed factors.
		As per Table-F, the critical spares are to be maintained by the vendor and the Cost for the procurement of spares is to be borne by the vendor. Since, the spares are to be procured by the vendor for warranty and COMC for GSAT-11 project, SAC, ISRO will provide Customs Duty Exemption certificate for the supply of spares.--- <b>Kindly confirm.</b>	Vendor has to procure and maintain all the critical spares for all gateways.  <b>SAC/ISRO will not provide CDEC</b> for procurement of critical spares.
	Please refer to RFP page 82 Table A (Sl. No. 1-d) regarding 'Site preparation and civil work for antenna foundation' stated as follows: "Site Survey,	Is 1.5m antenna foundation pedestal a must? In our opinion, 0.33m (1ft) height of antenna foundation pedestal should be sufficient and even better to avoid higher wind stress. Secondly, this is not specified in Technical Chapters anywhere except in this Price Bid Template. Please clarify, since it has a bearing on cost.	1.5m Antenna pedestal height is must.

	Detailed Soil testing and Antenna Foundation Pedestal 1.5m Ht. Only from FFL., per Antenna"		
		We understand that the local HMC and NMS at all gateways are for both monitoring and control. Whereas, web based solution for remote viewing of status of all gateways should be 'for monitoring only'. Providing 'control' of gateways to a large number of web-based users could be detrimental unless defined specifically for few nominated persons and hence control is to be avoided. Please confirm that our understanding is correct.	All gateways should be accessible from a central location which has IP reachability for <b>monitoring and control</b> purposes. Details will be discussed during DDR.