ATC document for RF Link

1. Technical Specification

- i. Minimum aggregate link speed should be 300 Mbps and should be scalable upto 2 Gbps.
- ii. Latency should be <10 ms.
- iii. OEM to provide the certificate confirming that Radio equipment is not WiFi based.
- iv. Radio equipment, antenna and related accessories should be from same OEM.
- v. Bidder to provide the data sheet of radio and antenna being proposed and details of EM radiation and safety standards met by the equipment and safety features build in.

2. Timelines

- i. Delivery, installation & commissioning within 5 weeks from purchase order date.
- ii. No separate charges shall be applicable for delivery/ installation/ testing/ commissioning of link.

3. Performance Bank Guarantee & Payment Terms

- Successful bidder has to submit PBG equivalent to 10% of the total value of the contract with the validity of at least 180 days beyond warranty period.
- ii. 100% payment will be made after delivery, installation and commissioning of the RF link subject to submission of PBG.
- iii. PBG may be forfeited in case of unsatisfactory performance

4. Preventative Maintenance

- i. Successful bidder to carry out preventive maintenance in each quarter and to ensure its timely execution.
- ii. PM schedule shall be got approved from the customer.

5. Monitoring System

- i. Provide the solution for Monitoring the network using Network Management System (NMS)
- ii. Provide the monthly outage reports.
- iii. Analyse the frequent incidents and conduct detailed analysis of the same.
- iv. Perform incident and fault management for all kind of terrestrial link including Physical testing of all links, Ensuring link quality, Detection and isolation of faults, Logging of calls etc.
- v. The Service Provider will submit monthly reports such as Outage (Hardware as well as Link), Latency, Jitter and Packet Loss.

- vi. Complaint registration should be available for 24*7*365. The Downtime of the equipment starts from the time the complaint is logged in at the given address/helpdesk number provided by the bidder for escalating complaints.
- vii. Any delay in escalating a complaint shall be excluded from the availability calculations.

6. SLA

- i. Bidder must be able to resolve all the incidents, problems and user queries and other Network related issues as per SLA.
- ii. Bidder needs to maintain the SLA as per below -

Sr	Condition	Deliverable	Penalty			
No.						
1	Link	Max. 4 Hrs	If the downtime exceeds			
	restoration	from	4 hours, then penalty of Rs. 100/-			
	time (MTTR)	complaint	per hour will be liable.			
		logging				
2	Network	>=99%	NIL			
	Uptime	98-99 %	Rs 1000/-			
	*To be	97-98 %	Rs 2000/-			
	calculated each	97-95 %	Rs. 3000/- + (Rs. 1500/- for each			
	month		%age)			
		90-95%	Rs 6000/- + (Rs. 2000/- for each			
			%age)			
		<90%	Entire PBG would be forfeited and			
			blacklisting of vendor can be			
			considered in case there is no			
			satisfactory reason for the			
			downtime.			

Note: In case the penalty imposed on the service provider exceeds the amount of PBG then action to blacklist the Service Provider will be initiated.

- iii. Downtime due to following situations will not be considered for the purpose of penalty calculations
 - If the link is down due to power failure.
 - Scheduled maintenance by the vendor with prior intimation
 - Riots, natural calamities and other force majeure conditions.

7. Other Terms & Conditions

- RF Link to be established from Main Secretariat, Sector 1
 Chandigarh to State Information Commission building, Sector 16
 Chandigarh with 5 years support and warranty.
- ii. Bidder to submit the site survey report and RF link budget details.
- iii. Bidder to provide the product life cycle certificate from OEM and availability of spares for at least 7 years.
- iv. Bidder to provide contact details of the O&M Engineer or helpdesk number for immediate support.
- v. The bidders requiring any clarification on the bid document may submit their queries via email to sidharath.verma@punjab.gov.in by 12:00 PM on 01.03.2021 in the following format in a spreadsheet file:

SN	Tender / ATC Clause No.	Page No.	Tender / ATC Clause detail	Amendment Suggestion	Sought /	Justification

vi. Date and time of pre-bid meeting: 11:00 AM on 03.03.2021.