



REQUEST FOR PROPOSAL (RFP)

ON

Labour Work for IT Infrastructure Augmentation

July2024

**SPACE APPLICATIONS CENTRE
INDIAN SPACE RESEARCH ORGANISATION
AHMEDABAD 380015**

Contents

1. Introduction	3
2. Solution Provider (SP) Qualification Criteria	3
3. Technical and Commercial Terms	3
4.Quotation Submission Mode	3
5.General Terms and Conditions	4
ANNEXURE -I: List of Labour Items	5
ANNEXURE II : Price Bid Format.....	9
ANNEXURE III: Commercial evaluation formulae.....	14
ANNEXURE IV: Work Order	14
ANNEXURE V: Work Completion Report.....	15

1. Introduction

Space Applications Centre (SAC) Ahmadabad has a campus wide computer network. SAC campus is having around 50 buildings which are connected with optical fibre link. SAC network is gigabit (1 Gbps) throughput network with CAT6 UTP cabling up-to end user using D-link made active components.

SAC campus includes SAC Main Campus, Technical Campus and New Bopal Campus. SAC Main campus is situated at Jodhpur Tekra, Satellite road. Other two campuses are situated 10 km from Main campus in Bopal area near Delhi Public School.

The bids are invited from Ahmadabad/Gandhinagar based Solution Provider (SP) for Network Augmentation related labour work activities for a period of two years.

2. Solution Provider (SP) Qualification Criteria

- 2.1. SP should have been in existence for minimum of 3 years prior to date of issue of the tender, having necessary experience in the field of Computer Network establishment and related passive component installation. SP must provide Indian certificate of incorporation issued by registrar of companies/firm as a supportive document.
- 2.2. SP should have office in Ahmadabad/Gandhinagar Municipal Corporation limit for a minimum of 1 year from the date of tendering. SP shall submit copy of tax bill / electricity bill / telephone bill / GST-CST registration / lease agreement, etc. as a proof.
- 2.3. SP should have minimum experience as below:
 - Establishing more than 2000 network nodes of 1Gbps, and more than 50 network nodes of 10 Gbps.
 - Configuring more than 100 network switches in last 5 years.SP shall submit work orders along with satisfactory completion certificate from respective client for each work as a proof of experience.
- 2.4. SP shall be responsible for damage of any active components due to labour work. SP has to rectify the issue within 24 hours. If rectification is not possible, damaged component shall be replaced with same or higher model within one week without any extra cost.
- 2.5. SP is mandatorily required to enclose necessary documentary evidence certificates to substantiate the above qualification criteria along with the technical bid. Offers submitted without above supporting documents shall be invalid and will not be considered for evaluation.

3. Technical and Commercial Terms

- 3.1. SP shall perform network augmentation and installation activities as per Annexure-I under supervision and guidance of SAC during the period of the contract.
- 3.2. SP shall start work within 72 hours after receiving work order from SAC as per Annexure-IV. SP shall submit work completion report as per Annexure V.
- 3.3. SP shall bring their own tools and equipment necessary to carry out the activities as per Annexure-I.
- 3.4. Payment for the labour works shall be made monthly basis, post-facto on submission of bill from SP after duly signed by indenter and approved by competent authorities within 30 days from bill submission.
- 3.5. Validity of the contract shall be for two years, which may be extended for another one year on same rate/price based on mutual agreement of SAC and SP.

4. Quotation Submission Mode

SP shall submit full and final proposal in two parts.

4.1 Technical bid

- 4.1.1. Should submit compliance for all applicable RFP points along with necessary documentary proof.
- 4.1.2. Un-priced bid quotation (commercial quotation with price masked) of all items (partial quotation will be rejected) of Annexure-I. It should be identical to 4.2.1 with price masking.

Price details should NOT be disclosed in any attachments during submission of Technical bid. In case, price details are disclosed in Technical bid, the bid shall be rejected.

4.2 Commercial bid

- 4.2.1 Commercial quotation with price of all items of Annexure-I. It should be identical to the un-priced bid given in 4.1.2.
- 4.2.2 All price bidding shall be in the template prescribed in Annexure II.
- 4.2.3 Commercial evaluation of the offer will be carried out using the formulae given in Annexure III.

5. General Terms and Conditions

- 5.1. Utmost care should be taken by SP personnel while carrying out the job and ensure the safety of other neighbouring instruments or whatsoever of property.
- 5.2. In the event of the damage to SAC property or injury to SAC personnel due to the negligence on part of SP, liability shall solely rest with SP and will be responsible for appropriate compensation as determined by SAC.
- 5.3. SP shall take configuration backup of all the active components quarterly during the contract period.
- 5.4. SAC shall not be responsible for the loss of life or injury to SP personnel or loss or damage to SP property brought in the campus for maintenance due to natural calamities, accident, explosion, mishap or any other reason during contract period.
- 5.5. SP should take adequate care for the safety of their personnel deputed for this contract. SAC shall not be responsible for any risk and compensation to their personnel.
- 5.6. SP shall take back all tools, equipment etc. brought inside SAC campus immediately after expiration of contract period.
- 5.7. **Termination of contract:** SAC reserves the right to terminate the contract if the performance of the SP is found to be unsatisfactory during its currency of the contract by giving one month's notice in writing without any financial implications on either side.
- 5.8. **Fall Clause:** The charges for the above work shall in no event exceed the lowest charges at which SP service the network of identical description to any other party during the currency of the contract. If, at any time during the said period, SP reduce the charges for similar work to any other customer, SP shall forthwith notify the same to SAC and the charges payable under the contract for the service shall stand correspondingly reduced.
- 5.9. **Force Majeure:** Should a part of whole of the services covered in this contract be delayed due to reasons of force Majeure which shall include Lock-outs, strikes, riots, civil commotion, fire accidents, acts of God and war, stoppage of deliveries by Government, shall be extended by a period(s) not in excess of duration of such force Majeure. SP and SAC if the force Majeure conditions extend over a period of six months both the parties of the order shall mutually discuss and arrive at an agreement for continuation or termination of the contract.
- 5.10. **Performance Security:** Performance Security of INR 4,80,000 shall be submitted. Performance Security can be submitted through Bank Guarantee or fixed deposit receipt from any of the Scheduled Banks executed on non-judicial stamp paper and should be valid for a period of sixty days beyond the date for completion of the contract. In case the SP fails to furnish the Performance Security within 15 days from the date of the contract, the contract is liable to be cancelled. In the event of non-execution of the Contract or breach of any terms and conditions of the Contract, the Performance Security shall be forfeited. Performance Security will be released only after satisfactory completion of the contract without any interest thereon.
- 5.11. **Penalty Clause:** Failing to fulfill para 3.2, up to the satisfaction of SAC, shall attract daily penalty at the Rate INR 500/- per day after the end of 72 hours period up to a maximum limit of 10% of the supply order placed .
- 5.12. Deployed SP manpower need to get Police Verification/Clearance Certificate and must follow security guidelines issued by SAC while entering in SAC premise.
- 5.13. Service Provider will also be required to adhere by the applicable statutory rules and laws of the land, laid down by Government of India and Government of Gujarat such as Contract Labour Act 1970, EPF Act 1952, ESI act 1948, Payment of Wages Act 1936 and Workmen Compensation Act 1923 etc. regarding the minimum wages, SAC will not be responsible for compliance, it will be duty of Service Provider to keep track of all such laws and compliance.
- 5.14. SP shall not subcontract any part of the work assigned by SAC to any different SP.

ANNEXURE -I: List of Labour Items

Table A		
Sr. No.	Labour items	Unit Of Measurement
1.	Removal Of Switches	Number
2.	Fixing Of Switches	Number
3.	Configuration Of Switches	Number
4.	1 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
5.	2 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
6.	5 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
7.	7 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
8.	10 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
9.	15 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
10.	20 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
11.	Removal of 1 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
12.	Removal of 2 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
13.	Removal of 5 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
14.	Removal of 7 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
15.	Removal of 10 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
16.	Removal of 15 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter
17.	Removal of 20 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter

18.	UTP cable laying with PVC casing/capping or conduits with accessories	meter
19.	Supply & installation of 50X50 mm PVC trunk/channeling	meter
20.	Supply & installation of 100X50 mm PVC trunk/channeling	meter
21.	UTP cable removing with PVC casing/capping or conduits	meter
22.	Patchmax Panel installation	Number
23.	Termination of Information Outlet	Number
24.	Removal of Information Outlet	Number
25.	Labour charges for RJ45 Crimping	Number
26.	UTP Scanner testing	Number
27.	Fixing of Network Wall Mounted Rack	Number
28.	Fixing of Network Floor Mounted Rack	Number
29.	Fixing of Patch Panels along with Patch Cords	Number
30.	Fixing of Wall/Rack Mount LIU	Number
31.	Supply and installation of Cable tray	Meter
32.	Supply & installation of 1" diameter HD (Min 2 mm Thickness) pipe	meter
33.	Supply & installation of 1.5" diameter HD (Min 2 mm Thickness) pipe	meter
34.	Fiber cable pulling Charges	meter
35.	LIU installation (Wall/Rack)	Number
36.	Fiber Splicing - 1 core with OTDR Testing	Number
37.	Fiber Splicing - 2 core with OTDR Testing	Number
38.	Fiber Splicing - 6 core with OTDR Testing	Number
39.	Fiber Splicing - 12 core with OTDR Testing	Number
40.	Fiber Splicing - 24 core with OTDR Testing	Number
41.	Fiber Splicing - 48 core with OTDR Testing	Number

42.	Charges for OTDR Testing	Number
43.	Removing of Network Wall Mounted Rack	Number
44.	Removing of Network Floor Mounted Rack	Number
45.	Removal of Patch Panels along with Patch Cords	Number
46.	Removal of Wall/Rack Mount LIU	Number
47.	Removing of Network floor rack (include removal of patch panels, switches and patch cords routing etc)	Number
48.	Fixing of Network floor rack (include fixing of patch panels, switches and patch cords routing etc)	Number
49.	Removal of Patchmax Panel	Number
50.	Digging 2.5' x 1' deep trench with earth backfilling	meter
51.	Supply & installation of 1" diameter GI Pipe	meter
52.	Removal of 1" diameter GI Pipe	meter
53.	Supply & installation of 1.5" diameter GI Pipe	meter
54.	Removal of 1.5" diameter GI Pipe	meter
55.	Under grounding Drilling (Boring) for road crossing	meter
56.	Supply & installation of 6" diameter Hume pipe for road crossing	meter
57.	Removal of 6" diameter Hume pipe for road crossing	meter
58.	Fiber cable removing from wall	meter
59.	Fiber cable removing from ground	meter
60.	(Soft Soil digging) Charges for new fiber laying: Digging, Laying the required length of Fiber, back filling & resurface Job etc.	meter
61.	(RCC & Hard Soil digging): Charges for new fiber laying: Digging, Laying the required length of Fiber, back filling and RCC resurface job etc.	meter
62.	(Soft Soil digging): Charges for fault Locating on Field, Digging & finding the Fault Location, back filling and resurface job etc. (Maximum Digging Length is 10 Meters)	meter

63.	(RCC & Hard Soil digging): Charges for fault Locating on Field, Digging & finding the Fault Location, back filling and RCC resurface job etc. (Maximum Digging Length is 10 Meters)	meter
64.	Making Masonry Chamber (2' X 2' X 2.5') with required materials and accessories	Number
65.	Charges for supply of yellow color and painting the fiber cable route marker	Number
66.	Removal of yellow color and painting the fiber cable route marker	Number
67.	labour charges for removing & refitting the cable route marker	Number
68.	25mm Jari making in wall with rough finish	meter
69.	32mm Jari making in wall with rough finish	meter
70.	25mm PVC Pipe supply & laying in conceal manner	meter
71.	UTP Cable laying in conceal manner	meter
72.	Fiber cable laying in conceal manner	meter
73.	32mm HDPE Pipe Supply & laying in conceal manner	meter
74.	Supply and installation of Rack fan with fitting material	Number
75.	Supply and installation of Rack door lock with fitting material	Number
76.	Supply and installation of Fiber cable route marker with 2 feet arm length	Number
77.	Supply and installation of Fiber cable route marker with 3 feet arm length	Number
78.	(Paver block digging) Charges for new fiber laying. Paver Block removal, laying the required length of fiber cable, back filling and resurface job, etc.	Meter
79.	(Paver block digging) Charges for fault location on field. Paver Block removal, finding fault location, back filling and resurface job, etc.	Number
80.	L2 Switch Configuration Backup / L2 Switch backup configuration loading Charges per device	Number
81.	L2+ Switch Configuration Backup / L2+ Switch backup configuration loading Charges per device	Number
82.	L3 Switch Configuration Backup / L3 Switch backup configuration loading Charges per Device	Number
83.	Core -Tor Switch Configuration Backup / Core-Tor Switch backup configuration loading Charges Per Device	Number

Note: Supplied trunk/channelling, Casing/Capping and cable pipes should be ISI mark brand.

ANNEXURE II : Price Bid Format

Table A					
Sr. No.	Labour items	Unit Of Measurement	Unit Rate(In Rupee)	Tax(%)	Unit Rate Including Tax(In Rupee)
1.	Removal Of Switches	Number			
2.	Fixing Of Switches	Number			
3.	Configuration Of Switches	Number			
4.	1 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
5.	2 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
6.	5 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
7.	7 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
8.	10 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
9.	15 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
10.	20 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
11.	Removal of 1 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
12.	Removal of 2 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
13.	Removal of 5 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
14.	Removal of 7 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
15.	Removal of 10 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			

16.	Removal of 15 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
17.	Removal of 20 cable laying UTP cable laying without PVC casing/capping or conduits with accessories	meter			
18.	UTP cable laying with PVC casing/capping or conduits with accessories	meter			
19.	Supply & installation of 50X50 mm PVC trunk/channeling	meter			
20.	Supply & installation of 100X50 mm PVC trunk/channeling	meter			
21.	UTP cable removing with PVC casing/capping or conduits	meter			
22.	Patchmax Panel installation	Number			
23.	Termination of Information Outlet	Number			
24.	Removal of Information Outlet	Number			
25.	Labour charges for RJ45 Crimping	Number			
26.	UTP Scanner testing	Number			
27.	Fixing of Network Wall Mounted Rack	Number			
28.	Fixing of Network Floor Mounted Rack	Number			
29.	Fixing of Patch Panels along with Patch Cords	Number			
30.	Fixing of Wall/Rack Mount LIU	Number			
31.	Supply and installation of Cable tray	Meter			

Sr. No.	Labour items	Unit Of Measurement	Unit Rate(In Rupee)	Tax(%)	Unit Rate Including Tax(In Rupee)
32.	Supply & installation of 1" diameter HD (Min 2 mm Thickness) pipe	meter			
33.	Supply & installation of 1.5" diameter HD (Min 2 mm Thickness) pipe	meter			

34.	Fiber cable pulling Charges	meter			
35.	LIU installation (Wall/Rack)	Number			
36.	Fiber Splicing - 1 core with OTDR Testing	Number			
37.	Fiber Splicing - 2 core with OTDR Testing	Number			
38.	Fiber Splicing - 6 core with OTDR Testing	Number			
39.	Fiber Splicing - 12 core with OTDR Testing	Number			
40.	Fiber Splicing - 24 core with OTDR Testing	Number			
41.	Fiber Splicing - 48 core with OTDR Testing	Number			
42.	Charges for OTDR Testing	Number			
43.	Removing of Network Wall Mounted Rack	Number			
44.	Removing of Network Floor Mounted Rack	Number			
45.	Removal of Patch Panels along with Patch Cords	Number			
46.	Removal of Wall/Rack Mount LIU	Number			
47.	Removing of Network floor rack (include removal of patch panels, switches and patch cords routing etc)	Number			
48.	Fixing of Network floor rack (include fixing of patch panels, switches and patch cords routing etc)	Number			
49.	Removal of Patchmax Panel	Number			

Sr. No.	Labour items	Unit Of Measurement	Unit Rate(In Rupee)	Tax(%)	Unit Rate Including Tax(In Rupee)
50.	Digging 2.5' x 1' deep trench with earth backfilling	meter			
51.	Supply & installation of 1" diameter GI Pipe	meter			
52.	Removal of 1" diameter GI Pipe	meter			
53.	Supply & installation of 1.5" diameter GI Pipe	meter			
54.	Removal of 1.5" diameter GI Pipe	meter			
55.	Under grounding Drilling (Boring) for road crossing	meter			
56.	Supply & installation of 6" diameter Hume pipe for road crossing	meter			
57.	Removal of 6" diameter Hume pipe for road crossing	meter			
58.	Fiber cable removing from wall	meter			
59.	Fiber cable removing from ground	meter			
60.	(Soft Soil digging) Charges for new fiber laying: Digging, Laying the required length of Fiber, back filling & resurface Job etc.	meter			
61.	(RCC & Hard Soil digging): Charges for new fiber laying: Digging, Laying the required length of Fiber, back filling and RCC resurface job etc.	meter			
62.	(Soft Soil digging): Charges for fault Locating on Field, Digging & finding the Fault Location, back filling and resurface job etc. (Maximum Digging Length is 10 Meters)	meter			
63.	(RCC & Hard Soil digging): Charges for fault Locating on Field, Digging & finding the Fault Location, back filling and RCC resurface job etc. (Maximum Digging Length is 10 Meters)	meter			
64.	Making Masonry Chamber (2' X 2' X 2.5') with required materials and accessories	Number			
65.	Charges for supply of yellow color and painting the fiber cable route marker	Number			
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70.	25mm PVC Pipe supply & laying in conceal manner	meter			
71.	UTP Cable laying in conceal manner	meter			
72.	Fiber cable laying in conceal manner	meter			
73.	32mm HDPE Pipe Supply & laying in conceal manner	meter			
74.	Supply and installation of Rack fan with fitting material	Number			
75.	Supply and installation of Rack door lock with fitting material	Number			
76.	Supply and installation of Fiber cable route marker with 2 feet arm length	Number			
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78.	(Paver block digging) Charges for new fiber laying. Paver Block removal, laying the required length of fiber cable, back filling and resurface job, etc.	Meter			
79.	(Paver block digging) Charges for fault location on field. Paver Block removal, finding fault location, back filling and resurface job, etc.	Number			
80.	L2 Switch Configuration Backup / L2 Switch backup configuration loading Charges per device	Number			
81.	L2+ Switch Configuration Backup / L2+ Switch backup configuration loading Charges per device	Number			
82.	L3 Switch Configuration Backup / L3 Switch backup configuration loading Charges per Device	Number			
83.	Core -Tor Switch Configuration Backup / Core-Tor Switch backup configuration loading Charges Per Device	Number			

ANNEXURE III: Commercial evaluation formulae

Cost of Material from Table A

$$(CMA) = CM1+CM2+.....+CM83$$

Where,

CM1 = Cost Material 1 as per annexure II

Similarly,

CM83 = Cost Material 83 as per annexure II

$$\text{Total Cost} = (CM1+CM2+.....+CM83)$$

Annexure IV: Work Order

Work Order			
Job No.:			
Po No.:			
Assign date:			
Job Start Date:			
User Name:			
Work Location:			
Contact No:			
Estimated Quantity			
PO Sr. No.	Details of Work	Unit	Quantity
Work Order Issued BY:		Work Order Received By:	
SAC Contract In-charge:		SP Personnel (Sign/Date/Stamp)	

Annexure V: Work Completion Report

Work Compilation Report			
Job No.:			
Assign date:			
Job Start Date:			
User Name:			
Work Location:			
Contact No:			
Type of Network:			
PO Sr. No.	Details of Work	Unit	Quantity Executed
Work Completion date:			
Satisfactory work Completed.			
User Sign:			