



Knowledge Consortium of Gujarat

Department of Education, Government of Gujarat

No. KCG/2018-19/ 889

Date: 06/06/2018

To,
General Manager (EB),
Bharat Sanchar Nigam Limited,
Ahmedabad Telecome District

Sub: Work order for Providing Wi-Fi services (Design, Built, and Operations & Management) in various Government Colleges and Universities.

Dear Sir,

With reference to the above-mentioned subject, we are pleased to award you the Work providing WiFi services (Design, Built, and Operations & Management) in various Government Colleges and Universities as mentioned in **Annexure A** for and on behalf of **Knowledge Consortium of Gujarat** at 110 Campuses across the state as per following unit rate:

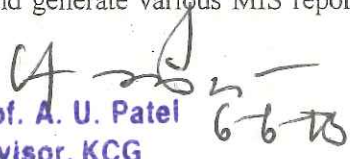
Unit Hot- Spot at one Building Location:

Access Points	ILL BW Mbps	Fixed CAPEX in RS.	Base ILL rate per annum in Rs.	Total For five years for 1 Hot spot in Rs.	Total WO Value for 5 years.
7	100	1,75,000/-	2,16,000/-	12,55,000/-	13,80,50,000/-

(Excluding Taxes)

Terms & Conditions:

1. BSNL has to setup Wi-Fi infrastructure at 110 locations such as Government Educational Institutes, State Universities through deployment of wireless Access Point's (APs) for providing internet access.
2. The WiFi setup should cover classrooms, corridor, library, laboratories, common rooms etc., in each institute as decided by a committee headed by the principal and two student representative and a representative of faculty.
3. The execution shall be based on the service model wherein the BSNL will have to provide Wi-Fi Services through such Hotspots which shall include all required Hardware, software and internet bandwidth.
4. To monitor the services, BSNL will appoint a Third-party agency which shall monitor the day to day operations of the project, to enable the same, the BSNL will have to provide the access to its NMS with admin rights at the State Data Center to monitor, check and generate various MIS reports like quantum of traffic, Bandwidth availability & utilization etc.
5. Contract Period : Five Years
6. Design parameters:


Prof. A. U. Patel
Advisor, KCG
Former Vice Chancellor of Gujarat University

Pragna Puram, Opp. PRL, Near L D College of Engineering, Ahmedabad-380 015.

Ph. : 079-26302077 • Fax : 079-26302067 • Website : www.kcg.gujarat.gov.in

- i. Development of Digital Education Development Network (DEDN) under Education Department, Government of Gujarat through Knowledge Consortium of Gujarat (KCG) for providing internet to the Students by setting up of public Wi-Fi Hotspots spread across multiple institutes in the state of Gujarat.
 - ii. To providing end- to -end solution for setting-up (required Hardware at central & edge locations, software, Internet Bandwidth, SMS & Payment gateway) and O&M of Wi-Fi hotspots at multiple cities across the state.
 - iii. To design a State-Wide DEDN Wi-Fi Infrastructure across multiple cities with a single SSID
 - iv. The Wi-Fi infrastructure shall include one or more zones/hotspots in every institute/university. Each Hotspot shall contain 7 Access points at various locations specified in Annexure A.
 - v. Hotspot's shall provide seamless coverage within its range and provide seamless transition within the Hotspot as well as between different Hotspot of the Wi-Fi Infrastructure.
 - vi. The Authentication periodicity of the Internet users should be configurable based on policy such as time duration, no. of days etc.
7. The BSNL will have to install the Access Points at suitable location to receive the maximum coverage of the Hotspot. BSNL is responsible for supply, installation, commissioning and maintenance of such mounting structure for AP's (as per requirement) along with required clamp, cable (Active & Passive) and accessories at each site/location.
 8. The proposed solution should allow the KCG to have the user management and monitoring rights for the Wi-Fi network created for the project.
 9. The access to the User Management/Monitoring Module for the KCG or its authorized agency should be given as a part of the solution and should support features such as Dashboard, SLA Monitoring, MIS Reports, User authentication through OTP (One Time Password) on mobile no. and email.
 10. Initially, the plan is to provide internet access free of cost to the end users, however in future, the KCG may decide to charge beyond the capped usage limit, therefore the proposed solution should be capable to allow users to buy in the extras usage access.
 11. The BSNL will be responsible for end to end process and operations of Wi-Fi services including SMS & Payment Gateway and other associated services. The BSNL will also have to provide a centralized billing mechanism based on the Wi-Fi usage under this project.

12. Logs of Wi-Fi usage:


- i. The BSNL shall be responsible for keeping log of Wi-Fi services to be utilized by the end users such as IP details, URL Visited, time stamp/time details, End User Authentication, Mobile No. MAC & IP addresses, access time, duration, data consumed, etc. to meet the compliance with all Regulatory and Legal guidelines issued by Department of Telecommunications/TRAI from time to time.
- ii. The KCG may at any time ask the BSNL to provide logs from the storage and maximum log retrieval time allowed is 8 hours.
- iii. The BSNL is free to maintain the logs at the state/district/regional level, however the same has to be fetched and provided to the KCG on a single platform.

13. The Web & Mobile App based user access Portal (Captive Portal) Solution:

- a) The Wi-Fi login will be routed through the NAMO e-TAB App of Education Department.
- b) User registration through NAMO e-TAB portal and NAMO e-TAB mobile application.
- c) The Web/WAP page should support various handheld devices such as Smart Phone, Tablets etc.


Prof. A. U. Patel 6-6-18
Advisor, KCG
Former Vice Chancellor of Gujarat University

- d) For logging into the AP at client end, BSNL will make a mobile app (Android, ios, windows platform) to allow signing into the network through mobile app.
- e) It should allow customization like branding, Publication of information, payment options, user manual & FAQ etc. on captive portal/Mobile App throughout the contract period.
14. The WiFi solutions should be capable to categories the users, as and when required by the KCG.
15. The proposed solution should be capable of generating various MIS reports on a dashboard in graphical/ pictorial representation such as:
- No. of Users with details: IP details, MAC ID, Access Point, Channel Wise etc.
 - Internet Usage: User wise/ Access Point/ Location wise etc.
 - Total Bandwidth Available on each AP/Hotspot and its Usage
 - All Reports related to SLA & project Monitoring.
 - Change management reports: Configuration, firmware, patches, upgrades etc.
 - Data usage and billing details
 - Geography based grouping of all the reports i.e. Per Hotspot, Per City, Per Zone, Per District, Per Cluster, State etc.
 - Any other reports that may be required from time to time
16. Proposed wireless solution is intended to provide 24x7 wireless Internet access at all Site(s).
17. The BSNL is responsible to ensure that the device is protected against any electrical surge/spikes. In order to achieve the same BSNL may install surge protector, have earthing, etc. if required.
- 18. Internet Bandwidth Provisioning:**
- Internet bandwidth is to be provided as per the Annexure A
 - The solution must be designed by the BSNL in such a way that the user gets download internet speed of at least thrice than the Upload Speed.
 - The bandwidth provided in annexure refers to the download bandwidth.
 - Last Mile:** The internet Bandwidth has to be provided on fibre only.
 - The Third-party agency appointed by the KCG/GIL will randomly check the availability of the required bandwidth at any of the institute, in case if it is found to be less than the ordered bandwidth more than 3 times in any Quarter, the KCG may terminate the contract and forfeit the PBG.
19. Proposed wireless solution should conform to applicable WPC regulations for use of license-free spectrums in terms of EIRP. A declaration to this effect must be submitted which must be supplemented by periodic compliance reports during the project period.
20. The number of Site/locations mentioned in this RFP may increase during the duration of the project, therefore for the future orders, the BSNL may supply Access Points of any make and model from the OEM featured in Gartner Magic Quadrant for wired and wireless LAN, 2016 complying to the technical specification of the RFP at the discovered prices only. The BSNL shall adhere to all the technical as well as commercial terms irrespective of the location of the Site.
21. The BSNL will have to carry out an initial assessment of the site locations. The tentative list of locations is mentioned in **Annexure A**.
- BSNL will survey different locations of NAMO Wi Fi Project and maintain the **Annexure B**.
22. **Wi-Fi Zone Signage's:** The BSNL will have to provide and install and maintain Wi-Fi Hotspot/ Zone Signage/Banner at each AP/Hotspot as the case may be confirming minimum specifications mentioned below:


Prof. A. U. Patel 6628
Advisor, KCG
Former Vice Chancellor of Gujarat University

- a) The sign board material should be made of Sun Board with UV printing on both sides (as the case may be) for greater visibility
- b) The Size should be a minimum of 2 Ft (L) x 1 Ft (B) or bigger for clearly informing users of the existence of Wi-Fi Hotspot/Zones.
- c) Min of 1 Nos. of such Sign Board/Banners has to be installed per Access. However the BSNL will have to consider the sizing ensuring complete coverage of the Hotspot/zone area.
- d) The Content to be printed on the banner/sign Board shall approved by the KCG.

23. Help Desk Support:

- a) The KCG will provide centralized Helpdesk for assistance or registration of user complaints through various medium like Voice Call/SMS/Email of ticket generation system. BSNL is responsible for coordination with the Helpdesk operator for early resolution of the complaints/request booked at the centralized helpdesk provided by the KCG.
- b) On ticket generation at the centralized helpdesk, the calls pertaining to the Wi-Fi infrastructure created under this RFP will be allotted to the BSNL for further resolutions of the complaints booked.
- c) After rectifying the said compliant, BSNL is required to update the resolution/call-closure on the centralized helpdesk and the confirmation for the rectification shall be done on visibility in the deployed NMS.
- d) The BSNL will further have to provide and publish a troubleshooting guide and necessary training for the existing Helpdesk Operators to provide L1 level support to the end user.

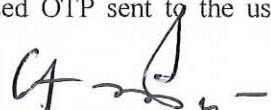
24. Functional Requirement:

24.1 Access Point:

- a) Access point shall allow wireless access through various types of devices like smart phones, laptops, tablets, desktops etc. Every Access point should support:
 - i. IEEE 802.11 ac standard with dual radio 2.4 Ghz and 5 Ghz
 - ii. Minimum data transfer rate of 150 Mbps
 - iii. Minimum 70 Meters radial coverage for Access Point
 - iv. Minimum 50 concurrent users @ each radio
 - v. Should support min 4 SSID
 - vi. Should provide seamless roaming within the network
 - vii. Interference detection and avoidance for both Wi-Fi and non-Wi-Fi interferes
 - viii. Should also allow Signal rejection for 3G/LTE/WiMAX in a co-Located environment
 - ix. Operating ambient temperature for AP should be 0° to 55°C
- b) The Access point shall be IP56 or better rated for dust and water Ingress protection.
- c) The AP should provide Omni directional antenna as required.

24.2 Features of the WiFi Solution:

- a) BSNL has to provide functionalities of all the components like WLAN Controller, Authentication, Authorization and Accounting (AAA), RADIUS, SMS Gateway, Payment Gateway, Captive Portal, customization and branding of services.
- b) The proposed solution should be able to manage the access points installed during the contract period and its concurrent users, with the subsequent expansion plan and coverage of the Wi-Fi Hotspot, the system should be able to cater to the increased no. of AP's and users accordingly.
- c) BSNL will have to ensure seamless integration of its AAA platform with the supplied Access points. The user Authentication should be done through SMS based OTP sent to the user's


 Prof. A. U. Patel
 Advisor, KCG
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mobile number and email. SMS push to the telecom service provider should happen in less than 5 seconds.

- d) The solution should have integrated security capabilities such as content filtering, blocking of malicious attacks, etc. to provide security to the overall network infrastructure.
- e) Solution should allow policy level blocking i.e. initial policies to begin with should be to block pornography, torrents, pirated, poker/casino related website and contents.

24.3 Role and Responsibilities

Of BSNL

- a) End-to-End creation of Wi-Fi Infrastructure Design, Supply, Installation, testing, Commissioning and O&M of the WiFi solution
- b) Detailed Survey/feasibility study report
- c) Provisioning of Internet Bandwidth at all the Institutes
- d) Provisioning of required and necessary manpower for The running of the project
- e) Obtain necessary clearances/ approvals from appropriate authorities
- f) Provisioning of WLAN Controller, User management system, SMS & Payment Gateway and other required infrastructure
- g) Adherence to the regulatory requirements like keeping log of end user of Wi-Fi services
- h) Adherence and compliance to the defined SLA, Submission of MIS reports.
- i) Providing dashboard for the network monitoring and real-time status of the project.

Of KCG

- a) To provide the requisite access permission, space and raw power to the BSNL for installation of equipment's at site location's.
- b) Approval of feasibility study report for implementation of Wi-Fi infrastructure
- c) Payment to successful BSNL as per the payment schedule
- d) To help and coordinate with The BSNL to obtain necessary clearances/approvals from appropriate authorities
- e) KCG shall have exclusive right to monitor entire work done by BSNL to check quality of work, material etc. In case if required KCG will issue instructions to improve or correct deficiency in work completed.


24.4 Deliverables:

Wi-Fi Infrastructure:

- a) The BSNL shall provide an end-to-end solution including Design, built, operate and maintain all Infrastructures related to the provisioning of the Wi-Fi services under the project.
- b) The KCG shall not pay any extra cost for any other component/service required for successful running of the proposed solution other than those mentioned in the Work order.
- c) The Overall Ownership of the field assets (Access Point's, Switch, Router, UPS etc.) shall remain with the KCG even after the project completion.
- d) In case of default/un-timely exit, the KCG may appoint/bring onboard another agency for the completion of the project.

Standards and policies:

- a) The BSNL shall ensure a secure Internet connection and access through OTP to all the subscribers with centralized authentication mechanism.


Prof. A. U. Patel
Advisor, KCG
Former Vice Chancellor of Gujarat University

- b) BSNL shall ensure the uniqueness of mobile No. for the use under free session, multiple logins shall not be allowed in any case.
- c) Wireless access points shall be configured with relevant cryptographic keys to ensure that only authorized and authenticated users can use the wireless service.
- d) Proposed solution should be secure and in compliance to relevant industry standard security requirements. The BSNL shall suggest and help in deploying various policies at various levels to prevent any intrusion/attacks in the wireless network.

Testing & Commissioning:

i.) FAT of Hardware/Software installed:

- a) FAT of Hardware/Software like Access point installed at various locations will be deemed commissioned on discovery of the Access point in the NMS along with all other last mile devices.
- b) BSNL in coordination with the TPA and representatives from the KCG is required to conduct following test on minimum 10% of the total locations to verify the health of the installed Wi-Fi infrastructure:
 - Signal Strength**, file-transfer rate, and network authentication: As per the TEC standards, these should be conducted by the TPA or any other representatives authorized by KCG
 - SSID**: The SSIDs configured should be discoverable by any 802.11n/ac wireless enabled device.
 - Download Speed**: TPA or any other authorized representative should conduct a file download test from any device to verify the effective bandwidth/throughput.
- c) BSNL shall be responsible for obtaining installation and commissioning certificate (Sign-off) on completion of the work as per the scope of work.
- d) The BSNL shall be responsible for rectification of discrepancies identified by the TPA/any other authorized representative while conducting FAT. Further on rectification of all the discrepancies identified during the FAT will be re-conducted or if agreed FAT will be signed.
- e) Documentation: The BSNL shall provide technical documentation with equipment Installed.

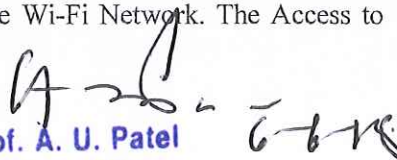
ii.) Security:

- a) The entire Wi-Fi network should be fully secure; data communication between devices should take place in encrypted form through multiple authentication mechanisms such as WPA should be implemented by the BSNL.
- b) The BSNL has to ensure compliance with all Regulatory and Legal guidelines issued by Department of Telecommunications/TRAI from time to time.
- c) **Logs**: compliance of authentication, usage, URL's visited or any other compliance that may be required as per the guideline of TRAI/DoT.

24.5 Operations and Maintenance:

Operations and Monitoring of the Project Infrastructure:

- a) The BSNL shall be responsible for day to day operations and maintenance for a period of 5-years from the date of commissioning of the project.
- b) It shall be the responsibility of the BSNL to ensure that all software/firmware etc. should be updated for patches/release etc. periodically.
- c) BSNL is responsible for periodically security testing of the network to ensure any malware/unauthorized traffic flow from the network. The Report for the same has to be submitted to the KCG on half yearly basis.
- d) **NMS for Performance Reporting**
 - i. The BSNL shall operate and maintain a Network Management System (NMS) and SLA and Performance Monitoring System for the complete Wi-Fi Network. The Access to


 Prof. A. U. Patel
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the NMS has to be provided to the KCG with full admin Rights for monitoring of the Wi-Fi Infrastructure

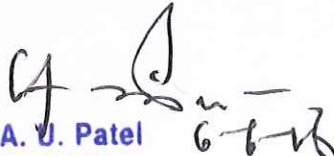
- ii. The NMS system shall be configured to automatically discover all manageable elements through IP/SNMP at regular intervals in order to determine their status and working
- iii. System generated Reports by NMS:
 - o Network Device Performance Report.
 - o New Location Connectivity Report
 - o Location wise Asset Report
 - o Network and Bandwidth Utilization Report (s)
 - o Successful BSNL would generate and provide Reports as stated above periodically. BSNL shall also be under obligation to provide any other reports as asked by the KCG or its user departments.

Manpower Requirement:

BSNL will make available the following manpower. The minimum requirement of manpower, their qualification and responsibility of each resource is given below:

S/N	Designation	Nos	Locations	Educational Qualification	Professional Qualification
1	Project Manager	1	KCG Ahmedabad	BE/ B. Tech (EC/CS/IT) / MCA/MBA	Minimum 8-10 years of experience with handling and managing Large scale WAN/MAN/Wi-Fi Project having Min 50 multiple locations as a Project Manager
2	Network Cum Operation Manager	1	KCG Ahmedabad	BE/ B. Tech (EC/CS/IT) / MCA	Minimum 5 years of experience with handling operations and managing Large scale WAN/MAN/Wi-Fi Project
3	Call Center Coordinator	1	KCG, Ahmedabad	Graduate (10+2+3)	Minimum 2 years of experience of helpdesk/call center in client interaction and Liasioning and coordination's role

- a) The BSNL has to ensure that appropriate qualified manpower with requisite skill sets is deputed at the locations defined in the above table. The BSNL shall depute the resources as per the requirements for carrying out the O&M Activity and maintaining the SLA.
- b) This is minimum indicative list of resources and based on actual requirements, the BSNL may deploy any number of resources to meet the SLA. The KCG shall not pay any cost for additional resources required to operate, maintain, monitor & manage the SLA. In case support staff is not available or is on leave, the BSNL is required to provide the alternative personnel with same or higher technical capabilities of the non-available personnel.
- c) The BSNL shall be responsible for the deployment, transportation, accommodation and other requirements of all its employees required for the execution of the work and for all costs / charges in connection thereof.
- d) The BSNL shall provide and deploy "dedicated on site manpower" for carrying out the work, only those manpower resources who are skilled and experienced in their respective trades and who are competent to execute or manage / supervise the work in a proper and timely manner as per the RFP.
- e) The BSNL shall maintain backup personnel and shall promptly provide replacement of every person removed pursuant to this section with an equally competent substitute from the pool of backup personnel


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- f) In case of change in its team composition owing to attrition The BSNL shall ensure a reasonable amount of time-overlap in activities to ensure proper knowledge transfer and handover/takeover of documents and other relevant materials between the outgoing and the new member.
- g) During Expansion or addition of Institutes for Setting up of Wi-Fi Hotspot services, The BSNL will also have to scale/ increase the manpower required for the O& M of such additional sites
- h) Also, if any institute hotspot is created during the tenure of the project will remain in service till the expiry of the contract. For example any institute hotspot(s) implemented in the fourth year of the project tenure will continue to be in service till the completion of the fifth year.

Preventive Maintenance: The BSNL shall also be responsible for the preventive maintenance and perform the below mentioned activities as a part of the regular preventive maintenance schedule:

- a) The BSNL shall carry out Preventive Maintenance (PM), including cleaning, dusting and upkeep of interior and exterior, of all hardware and devices within every 6 months and should record such preventive maintenance activity carried out every time and appropriate report of the same should be submitted to KCG on regular basis.
- b) Check all connectors and fiber points for any damage/cuts etc., in case found faulty the same has to be repaired and replaced.
- c) The Wi-Fi Hotspot Signage's/Banner are to be check for visibility and availability, in case not found suitable, the same has to be mandatorily replaced by the BSNL.
- d) AP realignment on need basis for better coverage and service, the same has to be done as per the below mentioned conditions:
 - i. Within 50 meters – has to be done free of cost by the BSNL.
 - ii. Beyond 50 meters- payment shall be done as per actuals for the shifting work excluding the LAN cabling which shall be paid as per the prices discovered under the LAN RC Tender by the KCG

24.6 Implementation Timeline:

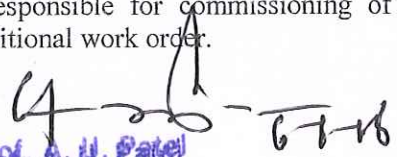
- a) The timelines for the implementation of the entire project with respective deliverables, are as mentioned below:

Deliverables	Timeline
<p><u>Installation, Commissioning and Go-Live of Institutes</u> (Installation, commissioning and FAT of Edge/site location Infrastructure like Mounting structure, Access Points, Rack, Routers, Switches etc.)</p>	<ol style="list-style-type: none"> 1. 20 Institutes : T + 15 days 2. 45 Institutes : T + 45 days 3. 45 Institutes: T + 75 days

Note: T = Date of Work Order

Days = Calendar days

- b) Delay in the project timelines shall attract appropriate Penalties as per the Penalty clause.
- c) In case the delay exceeds more than 4 weeks beyond the stipulated date or BSNL fails to abide by the conditions of the contract for any particular quantity, the remaining/undelivered (unexecuted) quantity may be procured by KCG at the cost of BSNL.
- d) BSNL requires to submit Device-wise Configuration report stating IP Schema, Routing details etc. along with the installation reports.
- e) Time line for additional work order, if any: BSNL is responsible for commissioning of additional orders within 60 calendar days from the date of additional work order.


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25. Price shall be inclusive of all freight, forwarding, transit insurance and installation charges. Prices shall be inclusive of Excise Duties. The prices shall strictly be submitted in the given format. Quoted prices shall be without VAT. The BSNL will have to supply/provide goods with an Invoice from a place located within State of Gujarat
26. The BSNL should provide Bill of Material with installation and setup charges, (exclusive of taxes). Any arithmetical errors in these calculations will be on BSNLs account.
27. Offered price is exclusive of GST as applicable.
28. **Contract Period:** The contract will be valid for a period of 5 Years. KCG may consider extending the contract on completion of 5 years for further duration of 2 years based on the performance of the BSNL with no upward revision in the prices.
29. The contract Performance guarantee has to be submitted within 15 calendar days of receipt of Work Order. The Performance Bank guarantee shall be equal to 10% of the contract value valid for duration of 180 days beyond the expiry of contract. The Performance Guarantee shall be discharged by KCG and returned to the BSNL within 30 calendar days from the date of expiry of the Performance Bank Guarantee.
30. The KCG right to vary requirements at time of award: KCG reserves the right at the time of award to decrease (max 10%) or increase quantity for the requirements originally specified in the document without any change in rate or other terms and conditions.
31. Termination Clause:

KCG reserves the right to suspend any of the services and/or terminate this agreement in the following circumstances by giving 30 days' notice in writing if: -

- a) The BSNL becomes the subject of bankruptcy, insolvency, and winding up, receivership proceedings;
- b) In case BSNL finds illegal use of hardware, software tools, manpower etc. that are dedicated to the project;
- c) In case the BSNL fails to deliver the required services as per the scope of work within the prescribed time lines defined in this RFP and extension granted, if any. In such scenario, KCG reserves the right to procure the same from other channels at the risk, cost and responsibility of the selected agency.

BSNL reserves the right to suspend any of the Services and/or terminate the Agreement at any time with 30 days' notice if the payment due to the BSNL for the services rendered is due for more than 2 (two) consecutive quarters.

- a) Upon occurrence of an event of default as set out in Clause above, either party will deliver a default notice in writing to the other party which shall specify the event of default, and give the other party an opportunity to correct the default.
- b) Upon expiry of notice period unless the party receiving the default notice remedied the default, the party giving the default notice may terminate the Agreement.
- c) During the notice period, both parties shall, save as otherwise provided therein, continue to perform their respective obligations under this Agreement and shall not, whether by act of omission or commission impede or otherwise interfere with party's endeavor to remedy the default which gave rise to the commencement of such notice period.
- d) The termination hereof shall not affect any accrued right or liability of either Party nor affect the operation of the provisions of the Contract that are expressly or by implication intended to come into or continue in force on or after such termination.


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32. Payment Terms

Payment as per Service/Rental model will be release to the BSNL on acceptance of the invoice by the KCG or its designated agency.

- a) The Fixed Capex charge shall be paid as onetime payment on The FAT of the hotspot as per the Price Bid.
- b) The Base Annual Charges shall be paid on quarterly basis at the end of each quarter post FAT of the hotspot location.
- c) The invoice would be processed for release of payment within 30 days after due verification of the invoice and other supporting documents by the KCG or its designated agency.
- d) In case the processing of the invoice gets delayed beyond 30 days from the date of acceptance of invoice, the BSNL would be paid an adhoc amount of 80% of invoice value and the remaining amount would be released after getting clarifications, due verification and imposition of penalty, if any.
- e) Payment shall be made in Indian Rupees. While making payment, necessary TDS/income tax will be made.

33. Service Terms:

- a) The entire scope of the work depends on the technical skill and experience in management of the same level or kind of infrastructure.
- b) It is mandatory for BSNL to deploy qualified professional to install, commission & maintain the proposed Network, as defined under scope of work.
- c) The BSNL has to submit regular schedule of man power availability & get it approved by KCG before deployment. BSNL shall follow all instructions issued by KCG related to wifi scheme time to time.
- d) The BSNL will have to carry out reinstallation of any of the equipment 'Free of Cost, if required.
- e) The BSNL need to manage & maintain various records related to the services extended to the Government.
- f) If required, the BSNL may need to coordinate and approach various agencies working for KCG.
- g) The BSNL needs to maintain the required security of the network as per the DoT/KCG Security guidelines.
- h) The BSNL is responsible to maintain documentation on the progress of the work and will have to update the same on regular basis. Successful BSNL will have to submit the progress reports regularly, as per the guide line issued by KCG/or its designated agency.
- i) In case of failure of any system or equipment, the BSNL needs to replace or repair the faulty part/component/device to restore the services at the earliest. The cost of the repairing or replacement of faulty Cable/component/device has to be entirely born by the BSNL.
- j) All expenses related to cable/component/device, including hiring of specialized technical expertise, in case required, has to be borne by the BSNL as part of Contract Agreement.
- k) BSNL shall submit test procedures covering various test cases and expected results of these tests relating to various systems being commissioned for the network.


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34. Penalty Clause:

PENALTY FOR DELAY

Activity	Timeline	Penalty
Delay in Installation, Commissioning and Go-Live of Institutes	As per clause no. 24(VI) of this work order	2.5% of Contract value of delayed item per week or part thereof for delay in delivery (Delay beyond 4 weeks, KCG may terminate the contract and Forfeit the PBG).

Note: Maximum Penalty cap of 20% of contract value for Penalty for Delay.

BSNL shall be paid Quarterly Payment (QP) as per the services provided to KCG. The overall penalty would be **generally capped at 20% of QP amount** and will be recovered against the quarterly payment invoice submitted by the selected agency. Availability will be calculated on a quarterly basis.


S/n	Activity	Target	Penalty
1	Availability of Wi-Fi Services	99%	a) 99% or Better= NIL b) 98.99% to 98.50%=3.0% of QP c) 98.49% to 97.00% = 7.5% of QP d) less than 97% = 20.0% of QP
2	Successful Generation of OTP and user authentication	Per 1000 Instance of Failure	a) Less than 1000 = NIL b) 1001-2000=0.25% of QP c) 2001-3000 = 0.50% of QP d) Greater than 3001 = 0.75% of QP

If the KCG fails to provide space and related clearances to carry out the job as per the agreement terms, as a result of which the installation of the equipment is delayed and The Bidder is not able to adhere to the schedule for completing the Acceptance Tests. Delay solely on account on above will not be included while ascertaining actual delay.

PENALTY FOR DELAY IN REPAIR/REPLACEMENT OF FAULTY MATERIAL:

The Bidder shall be responsible for repair/ replace all faulty material within the shortest possible time thus ensuring minimum downtime.

- i. The Bidder shall be responsible for maintaining the desired performance and availability of the system/services. Successful Bidder should ensure the prompt service support for the entire project duration. If any complain is made or auto alarm/instances is generated by the system for non-availability of the items., then it has to resolved within 48 hours from the time of complaint raised/auto alarm or instance generated by the system/NMS.
- ii. The Downtime/service failure shall mean "AP not having a connection during the cycle of 2 Hours any time during the day time i.e. from 8 AM to 10 PM)
- iii. **Natural Calamity:** if there are more than 5 locations are effected at the same time in a City or more than 10 locations are effected at the same time in a district, such an incident will be treated as


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Natural Calamity and then in that case 48 Hour time limit will be increased to 168 hours/ 7 days. Complaints/issues needs to be resolved within 168hrs/7 days from the time of complaint raised/auto alarm or instance generated by the system.

- iv.If Successful Bidder fails to resolve the issue as specified above, the following penalty will be imposed on each delayed day, which will be recovered against the quarterly payment invoice submitted by The bidder:


Site/Location	Penalty for each delay is resolution of issues within stipulated time
All Sites	Rs. 500/- per site for every 8 hours of delay or part thereof

35. Approvals/Clearances

- Approvals/ clearances concerned authorities, for establishing the proposed project are to be obtained by The BSNL.
- Necessary approvals/ clearances from concerned authorities, as required, for fire protection, government duties / taxes/ Octroi are to be obtained by The BSNL.
- Necessary approvals / clearances, from concerned authorities for "Right of way, as required, are to be obtained by The BSNL for laying their own cables to meet system requirements.
- Necessary approvals/ clearances from DoT/ TEC/ TRAI/ Concerned authorities/ any service provider, for establishing the network and connecting different Network elements/ any service provider's circuits, shall be obtained by The BSNL.

36. Project Implementation

- Third party auditor will be for the Project and all acceptances and monitoring of work will be undertaken by them. All Invoices, Vouchers, Bills for supplied services by The BSNL under the scope of the work will be verified measured and accepted by the TPA, for release of payment.
- As part of implementation, The BSNL will have to submit a detailed Implementation plan. The BSNL will implement the project strictly as per the plan approved by KCG
- The BSNL shall arrange to obtain all statutory and regulatory permission (If any) at no cost to the Government of Gujarat.
- The BSNL may have to work during Holidays and Sundays, according to the urgency of work. The BSNL will obtain such permission on his own in consultation with the User Department/KCG. It will be the responsibility of The BSNL to co-ordinate with all other agencies of Government of Gujarat in order to obtain No Objection Certificate required to execute the job, However the KCG may assist The BSNL in obtaining such clearance.
- The BSNL shall not disturb or damage the existing network of communication. If in case any damage to the network is done, the same shall be corrected with no extra cost. The BSNL will also be responsible for paying penalty, as imposed by the service owner to which the damage is incurred.
- Successful BSNL shall treat all matters connected with the contract strictly confidential and shall undertake not to disclose, in any way, information, documents, technical data, experience and know how, without prior written permission from KCG.
- Any damage caused to the property of Government of Gujarat while executing the job shall be solely Successful BSNL's responsibility. In case any damage to the property is caused, the same will be recovered from The BSNL.


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37. Third Party Agency

GIL or any other Third Party agency appointed by KCG for IT Infrastructure projects, would monitor the project during implementation, commissioning and operation. The Third Party will also conduct required Final Acceptance Test as per the technical requirement of the Agreement and will issue the Certificate of Completion of the proposed Site(s). Third Party Agency will verify the services provided by The BSNL under the agreement. The BSNL will have to co-operate with such Third-Party agency or its representatives during the entire contract duration.

38. Fraudulent and Corrupt Practice

- a) Fraudulent practice means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among BSNLs (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the KCG of the benefits of free and open competition.
- b) "Corrupt Practice" means the offering, giving, receiving or soliciting of anything of value, pressurizing to influence the action of a public official in the process of Contract execution.
- c) KCG will reject a proposal for award and may forfeit the Performance Bank Guarantee if it determines that the BSNL recommended for award has engaged in corrupt or fraudulent practices in competing for, or in executing, contract(s).

39. MIS Report

BSNL is required to submit/enable the access to various MIS reports in electronic form and over the email to KCG in support of SLA compliance along with its quarterly invoice and as and when asked by the KCG. Following is the minimum indicative list of types of MIS reports to be submitted by BSNL:

S/n	Activity	Periodicity
1.	Internet Bandwidth Available at each Institute	Daily
2.	Bandwidth utilization: Per AP and Per Hotspot wise, Total City & State wise	
3.	Total No. of users connected: Per AP and Per Hotspot wise, Total City & State wise	
4.	Availability of Access Points	
5.	Ageing Report of issues/Complaints/Incidents	
6.	Bandwidth Utilization over last 7 days: Per AP and Per Institute wise, Total City & State wise	Weekly
7.	SLA compliance reports	Quarterly
8.	Preventive maintenance reports	
9.	Configuration change reports	
10.	Inventory reports	
11.	Group and location/site wise service utilization and Uptime Report	
12.	Link Availability, Downtime, Usage/Utilisation, Fault & rectification, Performance statistics-AP & Network both, Log of Network parameters along with Service down time and % uptime achieved	
13.	Any other reports- As and when required by KCG	


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40. Copy Right and Intellectual Property

- a) KCG will have exclusive right to use the application software, its upgraded versions (as customized and upgraded from time to time).
- b) No software or services covered by the contract shall be developed or done by the company in violation of any right whatsoever of third party, and in particular, but without prejudice to the generality of the foregoing of any patent right, trademark or Similar right, or of any charge, mortgage or lien. BSNL will indemnify KCG for all such correspondence.

41. You are requested to furnish the unconditional acceptance of P.O. within 3 days from the receipt of purchase order to purchasing department.

42. The Terms and Conditions mentioned in tender document of GIL RFP No. GIL/DST/Urban wifi/2017-18 dated 14/06/2017, will also be applicable.

Authorized Signatory


Advisor

Knowledge Consortium of Gujarat

Ahmedabad

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Encl:

- 1. Annexure-A : List of Institutions with Access points**
- 2. Annexure-B : Survey format of NAMO – WIFI Project**

Annexure A
LIST OF INSTITUTES WHERE WIFI HOTSPOT TO BE IMPLEMENTED

Sr. No.	College Name	University	No. of Access Points	No. of Hotspot
1	Faculty Of Engg. & Tech Maharaja Sayajirao University Of Baroda, Vadodara	MSU	7	1
2	D N P Arts & Commerce College	HNGU, Patan	7	1
3	Sadguru Mahila Homesci. & M.J.K.Eng. Medium Mahila Commerce & B.B.A. College-Rajkot	SU, Rajkot	7	1
4	J. Z. Shah Arts & H. P. Desai Commerce College	VNSGU	7	1
5	Shri & Smt P K Kotawala Arts College, Patan	HNGU, Patan	7	1
6	Rrm College Of Sci & Clp College Of Commerce	HNGU, Patan	7	1
7	M B Patel Science College, Anand	SPU, Vvnagar	7	1
8	Shree S S Mehta Arts & M M Patel Commerce College	HNGU, Patan	7	1
9	Municipal Arts & Urban Bank Science College	HNGU, Patan	7	1
10	Virani Sci. & Shri Yogiji Maharaj Arts, Commerce & Science - Rajkot	SU, Rajkot	7	1
11	Mahamandleshwar Shri Krishnanandji College Of Commerce	VNSGU	7	1
12	Shree Trikamjibhai Chatwani Arts & J V Gokal Trust Commerce College - Radhanpur	HNGU, Patan	7	1
13	Tolani Commerce College	KSKVKU, Kachchh	7	1

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14	Sir K. P. College Of Commerce	VNSGU	7	1
15	Minaben Kundaliya Mahila Arts Comm. College-Rajkot	SU, Rajkot	7	1
16	Idar A.P.H.K.M. Arts & P.N. Patel Comm College	HNGU, Patan	7	1
17	Navjivan Arts And Commerce College	SGGU	7	1
18	Smt. K.S.N.Kansagara Mahila Arts & Comm. College-Rajkot	SU, Rajkot	7	1
19	P.D.M. Commerce College-Rajkot	SU, Rajkot	7	1
20	A.K.Doshi Mahila Arts, Comm. & Homesci. College-Jamnagar	SU, Rajkot	7	1
21	Shri Sarvajani Commerce College	SGGU	7	1
22	Kamani Science & Prataprai Arts College-Amreli	SU, Rajkot	7	1
23	Tolani College Of Arts & Science	KSKVKU, Kachchh	7	1
24	Patel Raman Brothers Arts & Patel Gopalbhai Ranchhodji Commerce College	VNSGU	7	1
25	S. B. Garda Arts College & P. K. Patel College Of Commerce	VNSGU	7	1
26	Kavishri Botadkar Arts And Commerce College	MKBU	7	1
27	Shri M.M.Ghodasara Mahila Arts & Comm.College-Junagadh	BKNMU	7	1
28	Shrij.B.Thacker Commerce College	KSKVKU, Kachchh	7	1
29	Shree Parekh Arts, Science And Commerce College	MKBU	7	1
30	Dr. V.R.Godhavanaya Mahila Arts Comm. Home Sci & I.T. College - Porbandar	BKNMU	7	1

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31	Shree S. A. Surani Vidyasankul - Smt. K K Shah Arts & Smt. L. B. Gunjariya Commerce College - Thara	HNGU, Patan	7	1
32	M.P. Shah Commerce College -Surendranagar	SU, Rajkot	7	1
33	Sheth P. T. Arts & Science College	SGGU	7	1
34	S. D. Arts & B. R. Commerce College	GU, Ahmedabad	7	1
35	G D Modi Arts College	HNGU, Patan	7	1
36	The Knsb Ltd Arts & Commerce College Kheralu	HNGU, Patan	7	1
37	Shri V. S. Patel College Of Arts & Science	VNSGU	7	1
38	Shah N. H. Commerce College	VNSGU	7	1
39	Shri U P Arts & Smt Mgp Sci & Shri Vls Comm College	HNGU, Patan	7	1
40	L.R.Valia Arts And P.R.Mehta Commerce College	MKBU	7	1
41	VP & RPTP Science College, Vallabhvidyanagar	SPU, Vvnagar	7	1
42	J.J.Kundaliya Arts & Commerce College-Rajkot	SU, Rajkot	7	1
43	St. Xavier's College	GU, Ahmedabad	7	1
44	Narmada College Of Science & Commerce	VNSGU	7	1
45	Sheth C. D. Barfiwala College Of Commerce	VNSGU	7	1
46	Shree V R Patel College Of Commerce Mehsana	HNGU, Patan	7	1
47	Smt T S R Commerce College Patan	HNGU, Patan	7	1
48	VNSB Ltd Arts & Commerce College Vadnagar	HNGU, Patan	7	1

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49	Shri P. N. Pandya Arts, Shri M. P. Pandya Science & D. P. Pandya Commerce College	SGGU	7	1
50	Shri Jyendrapuri Arts & Science College	VNSGU	7	1
51	Sir P.T. Science College Modasa	HNGU, Patan	7	1
52	Birla Vishvakarma Maha Vidhyalaya(Gia), V.V.Nagar 007	GTU	7	1
53	R. H. Patel Arts & Comm. College	GU, Ahmedabad	7	1
54	Cp Patel & Fh Shah Commerce College, Anand	SPU, Vvnagar	7	1
55	J.J.Kundaliya Commerce College-Rajkot	SU, Rajkot	7	1
56	Shri J S Bhakta And Shri K M Bhakta Arts And Shri A N Shah Science And Shri N F Shah Commerce College	VNSGU	7	1
57	Shri B P B Arts & M H Guru Commerce College	HNGU, Patan	7	1
58	Shri Morarji Ranchhodji Desai Arts College	VNSGU	7	1
59	Muni.Mahila Arts & Comm. & Homesci College, Gondal	SU, Rajkot	7	1
60	Bhavan's R. A. College Of Arts & Commerce	GU, Ahmedabad	7	1
61	G.K.& C.K.Boshimiya Arts & Comm.Jetpur	SU, Rajkot	7	1
62	Sheth T. C. Kapadia Arts & Commerce College	SGGU	7	1
63	Shri S.K Shah & Shri Krishna O M Arts Colege	HNGU, Patan	7	1
64	K.K.Parekh Comm.. College -Amreli	SU, Rajkot	7	1

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65	P. D. Pandya Mahila Commerce College	GU, Ahmedabad	7	1
66	Smt R M Prajapati Arts College Satlasana	HNGU, Patan	7	1
67	Prin. M. C. Shah Commerce College	GU, Ahmedabad	7	1
68	Anand Commerce College, Anand	SPU, Vvnagar	7	1
69	H. L. College Of Commerce	GU, Ahmedabad	7	1
70	J. & J. College Of Science	SPU, Vvnagar	7	1
71	Shri Sahajanand Vanijya Mahavidyalaya	GU, Ahmedabad	7	1
72	Shri R. P. Arts, Shri K. B. Commerce And Smt. B. C. J. Science College	SPU, Vvnagar	7	1
73	C. C. Sheth College Of Commerce	GU, Ahmedabad	7	1
74	M. G. Science Institute	GU, Ahmedabad	7	1
75	Shri P. H. Goswami Municipal Arts & Science College	GU, Ahmedabad	7	1
76	Sheth S.V. Arts & Commerce College	KSKVKU, Kachchh	7	1
77	Smt C C Mahila Arts & Sheth C N Comme College	HNGU, Patan	7	1
78	C. U. Shah Commerce College	GU, Ahmedabad	7	1
79	Shri Natvarsinhji Arts & Science & Shri S. G. Patel Commerce College	SGGU	7	1
80	Ahmedabad Arts And Commerce College	GU, Ahmedabad	7	1
81	Desai C. M. Arts & Commerce College	GU, Ahmedabad	7	1


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82	Smt. R. P. Chauhan Arts & Smt. J. K. Shah & Shri K. D. Shah Commerce College	VNSGU	7	1
83	Arts, Commerce Computer Science College-Manavadar	BKNMU	7	1
84	Shri Sahajanand Arts & Commerce College	GU, Ahmedabad	7	1
85	Shri H S Shah College Of Commerce	HNGU, Patan	7	1
86	Vanraj Arts & Commerce College	VNSGU	7	1
87	Navyug Commerce College	VNSGU	7	1
88	R. J. Tibrewal Commerce College	GU, Ahmedabad	7	1
89	Surat District Sahakari Bank Commerce College And Sayan Sahakari Khand Udhog Arts College	VNSGU	7	1
90	Mahila Arts & Commerce College-Veraval	BKNMU	7	1
91	F. D. Arts & Commerce College For Women	GU, Ahmedabad	7	1
92	Sheth P.T. Mahila College Of Arts & Home Science (Id: C-44167)	VNSGU	7	1
93	Shri K. K. Arts And Commerce College	GU, Ahmedabad	7	1
94	Gandhinagar Charitable Trust Sanchalit Samarpan Arts And Commerce College, Gandhinagar	GU, Ahmedabad	7	1
95	S. V. Vanijya Mahavidyalaya	GU, Ahmedabad	7	1
96	M. B. Commerce And G. M. N. Arts College	GU, Ahmedabad	7	1

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97	Dr.Subhash Mahila Arts Comm.& Homesci.College-Junagadh	BKNMU	7	1
98	G. B. Shah Commerce College	GU, Ahmedabad	7	1
99	N. C. Bodiwala & Prin. M. C. Desai Commerce College	GU, Ahmedabad	7	1
100	City C. U. Shah Commerce College	GU, Ahmedabad	7	1
101	Rofel Arts & Commerce College	VNSGU	7	1
102	Shri H. K. Commerce College	GU, Ahmedabad	7	1
103	Umiya (Shri M. P. & B. A. Patel, Detrojwala) Arts & Commerce College For Girls	GU, Ahmedabad	7	1
104	Akhand Anand Arts And Commerce College	VNSGU	7	1
105	S. V. Commerce College	GU, Ahmedabad	7	1
106	Sheth M N Science College Patan	HNGU, Patan	7	1
107	Pramikh Swami Sci & H D Patel Arts Colege Kadi	HNGU, Patan	7	1
108	M. B. Patel Rashtrabhasha Vinayan Aur Vanijya Mahavidyalaya	GU, Ahmedabad	7	1
109	Sardar Patel Mahila Arts & Commerce College-Junagadh	BKNMU	7	1
110	Arts, Science & R. A. Patel Commerce College	SPU, Vvnagar	7	1
			770	110


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Survey format for NAMO Wi Fi Project

Part-A				Part - B	
Sr.No	Institute	No. of hotspot Location	No. of tentative access points	Additional requirement as per the joint survey report carried out by all three representative	
				No of Hotspots required	No of APs required
HOTSPOT locations approved as per PO given by KCG					
1	Faculty Of Engg. & Tech Maharaja Sayajirao University Of Baroda, Vadodara	1	7		
2	D N P Arts & Commerce College	1	7		
3	Sadguru Mahila Homesci.& M.J.K.Eng. Medium Mahila Commerce & B.B.A. College-Rajkot	1	7		
4	J. Z. Shah Arts & H. P. Desai Commerce College	1	7		
5	Shri & Smt P K Kotawala Arts College, Patan	1	7		
6	RRM College Of Sci & Clp College Of Commerce	1	7		
7	M B Patel Science College, Anand	1	7		


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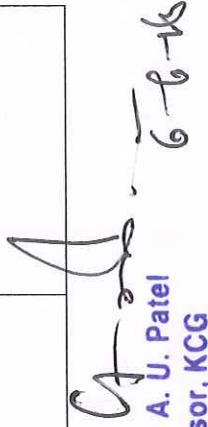
8	Shree S S Mehta Arts & M M Patel Commerce College	1	7		
9	Municipal Arts & Urban Bank Science College	1	7		
10	Virani Sci. & Shri Yogiji Maharaj Arts, Commerce & Science - Rajkot	1	7		
11	Mahamandleshwar shri krishnanandji College Of Commerce	1	7		
12	Shree Trikamjibhai Chatwani Arts & J V Gokal Trust Commerce College - Radhanpur	1	7		
13	Tolani Commerce College, Aadipur, Kutch	1	7		
14	Sir K. P. College Of Commerce	1	7		
15	Minaben Kundaliya Mahila Arts Comm. College-Rajkot	1	7		
16	Idar A.P.H.K.M. Arts & P.N.Patel Comm College	1	7		
17	Navjivan Arts And Commerce College	1	7		
18	Smt. K.S.N.Kansagara Mahila Arts & Comm. College-Rajkot	1	7		
19	P.D.M. Commerce College-Rajkot	1	7		
20	A.K.Doshi Mahila Arts, Comm. &. Homesci. College-Jamnagar	1	7		
21	Shrisarvajanik Commerce College	1	7		

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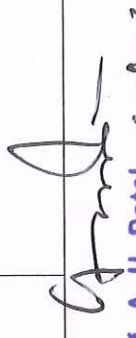
22	Kamani Science & Prataprai Arts College-Amreli	1	7	
23	Tolani College Of Arts & Science	1	7	
24	Patel Raman Brothers Arts & Patel Gopalbhai ranchhodji Commerce College	1	7	
25	S. B. Garda Arts College & P. K. Patel College Of Commerce	1	7	
26	Kavi shri botadkar Arts And Commerce College	1	7	
27	Shri M.M.Ghodasara Mahila Arts & Comm.College-Junagadh	1	7	
28	Shrij.B.Thacker Commerce College	1	7	
29	Shree Parekh Arts, Science And Commerce College	1	7	
30	Dr. V.R.Godhaviya Mahila Arts Comm. Home Sci & I.T. College - Porbandar	1	7	
31	Shree S. A. Surani vidyasankul - Smt. K K Shah Arts & Smt. L. B. Gunjariya Commerce College - Thara	1	7	
32	M.P. Shah Commerce College -Surendranagar	1	7	
33	Sheth P. T. Arts & Science College	1	7	
34	S. D. Arts & B. R. Commerce College	1	7	
35	G D Modi Arts College	1	7	


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36	The Knsb Ltd Arts & Commerce College Kheralu	1	7		
37	Shri V. S. Patel College Of Arts & Science	1	7		
38	Shah N. H. Commerce College	1	7		
39	Shri U P Arts & Smt Mgp Sci & Shri Vls Comm College	1	7		
40	L.R.Valia Arts And P.R.Mehta Commerce College	1	7		
41	VP & RPTP Science College, Vallabh vidyanagar	1	7		
42	J.J.Kundaliya Arts & Commerce College-Rajkot	1	7		
43	St. Xavier's College	1	7		
44	Narmada College Of Science & Commerce	1	7		
45	Sheth C. D. Barfiwala College Of Commerce	1	7		
46	Shree V R Patel College Of Commerce Mehsana	1	7		
47	Smt T S R Commerce College Patan	1	7		
48	Vnsb Ltd Arts & Commerce College Vadnagar	1	7		
49	Shri P. N. Pandya Arts, Shri M. P. Pandya Science & D. P. Pandya Commerce College	1	7		


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50	Shrijayendrapuri Arts & Science College	1	7	
51	Sir P.T. Science College Modasa	1	7	
52	Birla Vishvakarma Maha Vidhyalaya(Gia), V.V.Nagar 007	1	7	
53	R. H. Patel Arts & Comm. College	1	7	
54	C P Patel & F H Shah Commerce College, Anand	1	7	
55	J.J.Kundaliya Commerce College-Rajkot	1	7	
56	Shri J S Bhakta And Shri K M Bhakta Arts And Shri A N Shah Science And Shri N F Shah Commerce College	1	7	
57	Shri B P B Arts & M H Guru Commerce College	1	7	
58	Shri Morarji Ranchhodji Desai Arts College	1	7	
59	Muni.Mahila Arts & Comm. & Homesci College, Gondal	1	7	
60	Bhavan's R. A. College Of Arts & Commerce	1	7	
61	G.K.& C.K.Boshimiya Arts & Comm.Jetpur	1	7	
62	Sheth T. C. Kapadia Arts & Commerce College	1	7	
63	Shri S.K Shah & Shri Krishna O M Arts Colege	1	7	
64	K.K.Parekh Comm.. College -Amreli	1	7	
65	P. D. Pandya Mahila Commerce College	1	7	



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66	Smt R M Prajapati Arts College Satlasana	1	7		
67	Prin. M. C. Shah Commerce College	1	7		
68	Anand Commerce College, Anand	1	7		
69	H. L. College Of Commerce	1	7		
70	J. & J. College Of Science	1	7		
71	Shri sahanand vanijya mahavidyalaya	1	7		
72	Shri R. P. Arts, Shri K. B. Commerce And Smt. B. C. J. Science College	1	7		
73	C. C. Sheth College Of Commerce	1	7		
74	M. G. Science Institute	1	7		
75	Shri P. H. Goswami Municipal Arts & Science College	1	7		
76	Sheth S.V. Arts & Commerce College	1	7		
77	Smt C C Mahila Arts & Sheth C N Comme College	1	7		
78	C. U. Shah Commerce College	1	7		
79	Shri Natvarsinhji Arts & Science & Shri S. G. Patel Commerce College	1	7		


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80	Ahmedabad Arts And Commerce College	1	7	
81	Desai C. M. Arts & Commerce College	1	7	
82	Smt. R. P. Chauhan Arts & Smt. J. K. Shah & Shri K. D. Shah Commerce College	1	7	
83	Arts, Commerce Computer Science College- Manavadar	1	7	
84	Shri Sahajanand Arts & Commerce College	1	7	
85	Shri H S Shah College Of Commerce	1	7	
86	Vanraj Arts & Commrece College	1	7	
87	Navyug Commerce College	1	7	
88	R. J. Tibrewal Commerce College	1	7	
89	Surat District Sahakari Bank Commerce College And Sayan Sahakari Khand Udhog Arts College	1	7	
90	Mahila Arts & Commerce College-Veraval	1	7	
91	F. D. Arts & Commerce College For Women	1	7	
92	Sheth P.T. Mahila College Of Arts & Home Science (Id: C-44167)	1	7	
93	Shri K. K. Arts And Commerce College	1	7	

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94	Gandhinagar Charitable Trust Sanchalit Samarpan Arts And Commerce College, Gandhinagar	1	7		
95	S. V. Vanijya Mahavidyalaya	1	7		
96	M. B. Commerce And G. M. N. Arts College	1	7		
97	Dr. Subhash Mahila Arts Comm. & Homesci. College-Junagadh	1	7		
98	G. B. Shah Commerce College	1	7		
99	N. C. Bodiwala & Prin. M. C. Desai Commerce College	1	7		
100	City C. U. Shah Commerce College	1	7		
101	Rofel Arts & Commerce College	1	7		
102	Shri H. K. Commerce College	1	7		
103	Umiya (Shri M. P. & B. A. Patel, Detrojwala) Arts & Commerce College For Girls	1	7		
104	Akhand Anand Arts And Commerce College	1	7		
105	S. V. Commerce College	1	7		
106	Sheth M N Science College Patan	1	7		
107	Pramikh Swami Sci & H D Patel Arts Colege Kadi	1	7		

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Advisor, KCG
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108	M. B. Patel Rashtrabhasha Vinayan Aur Vanijya Mahavidyalaya	1	7	
109	Sardar Patel Mahila Arts & Commerce College- Junagadh	1	7	
110	Arts, Science & R. A. Patel Commerce College	1	7	


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