

REQUEST FOR EXPRESSION OF INTEREST (EOI)

FOR

PROVIDING BANDWIDTH FOR

KARNATAKA STATE WIDE AREA NETWORK (KSWAN)

Center for e-Governance, E-Governance Secretariat,

Government of Karnataka

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1 PURPOSE OF EOI

The Center for e-Governance (**CeG**) on behalf of Government of Karnataka (**GoK**) invites Expression of Interest, suggestions and recommendations for the design, deployment, and maintenance of the Network Bandwidth required for Karnataka State Wide Area Network (**KSWAN**) in the State of Karnataka. This is not a Request for Proposal (**RFP**).

The information gathered through this EOI will be used to define and identify technical and administrative solutions which are capable of meeting the projects' current and future needs. The information will also be used for finalization of the RFP.

Note: Short-listed companies from this EOI process shall be qualified to participate in the subsequent "RFP for Bandwidth Services for KSWAN" to be released by CeG in the due course of time.

2 KSWAN INTRODUCTION

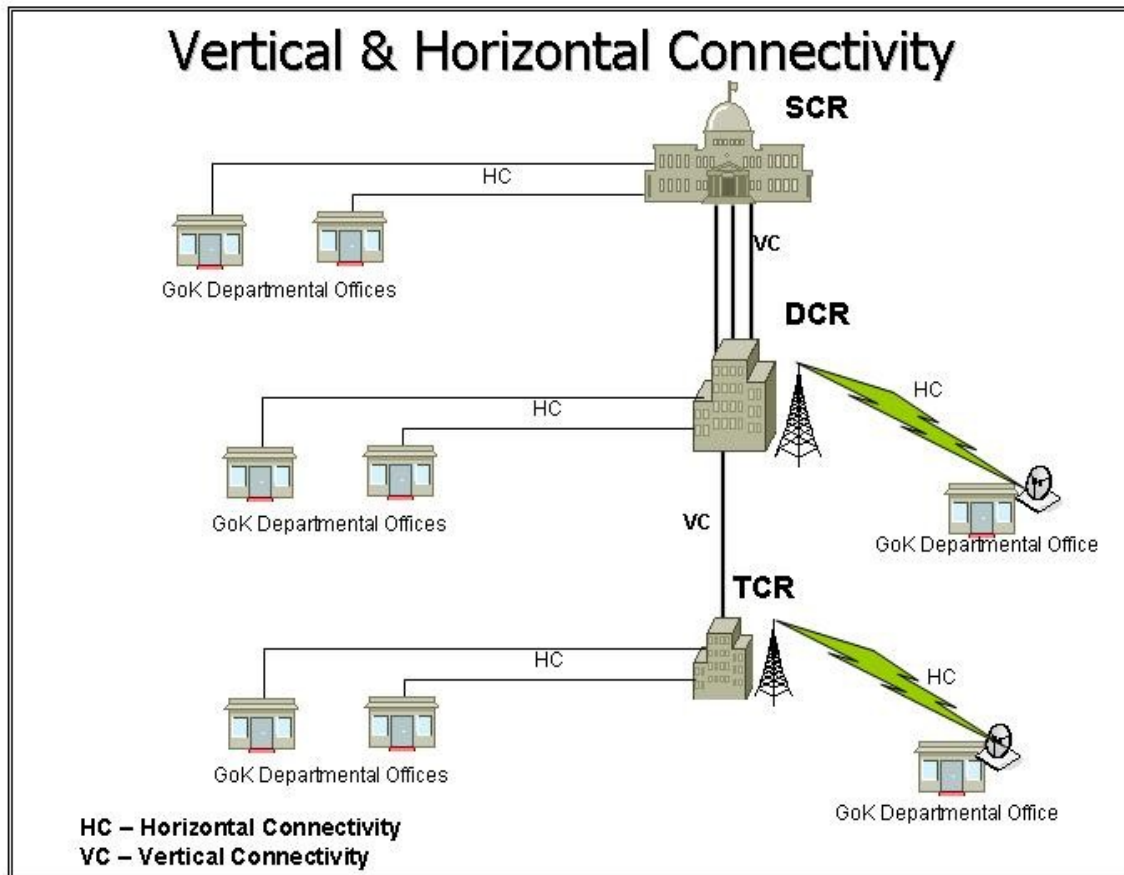
The role of Information Technology has been well established in the State of Karnataka. The State has well defined IT Policy and working towards making the State as a preferred destination for the IT related service industry. Also, there are various activities initiated by the Government to bring better governance to the citizens.

Majority of departments in GoK have already developed or designed their e-Governance systems for better governance of their systems and to serve the citizens efficiently. But the missing thing is a common road that connects every department to each other and departments at different Districts and Talukas to each other vertically.

Now Government of India (**GoI**) under its National Initiative Program – National e-Governance Plan (NEGP) has identified setting up of State Wide Area Network (**SWAN**) as a core infrastructure project. GoK has initiated the process of implementation of the KSWAN. Being the pivotal agency under GoK to usher the IT initiatives in the State, CeG is working towards the construction of scalable and secure KSWAN as implementing agency of the Project.

2.1 KSWAN Architecture

The KSWAN architecture is depicted in the following figure:



The primary services provided by KSWAN, are envisaged for the departments located at State level, District level and Taluka level respectively. Therefore, KSWAN is deployed in a **Three-Tier Architecture** at State Level (**Tier-1**), District Level (**Tier-2**) and Taluka Level (**Tier-3**).

At each tier, there are control rooms to house the KSWAN network infrastructure for providing connectivity to departmental offices at that particular tier. The Control Rooms at different tiers are as follows:

- **State Control Room (SCR)** – established at Vikas Soudha, adjacent to Vidhan Soudha under Tier-1.
- **District Control Room (DCR)** – established at Deputy Commissioner's Office at every district under Tier-2.
- **Taluka Control Room (TCR)** – established at Tahsildar's Office of every Taluka under Tier-3.

Accordingly, there are total of 176 KSWAN Control Rooms [i.e. 1 SCR, 27 DCR and 148 TCR].

The proposed network architecture is divided into two broad categories as **Vertical Connectivity (VC)** and **Horizontal Connectivity (HC)**. The connectivity under Vertical and Horizontal are as follows:

- **Vertical Connectivity** – consists of following two types of connectivity:
 - **SCR to all DCRs** – It is proposed to connect SCR to every DCR with three links of 2 Mbps each.
 - **DCR to every respective TCRs** – Every DCR is connected to its respective TCR's with one link of 2 Mbps.
- **Horizontal Connectivity** – consists of connectivity to every Departmental Offices to the KSWAN Control Rooms at that particular tier (State, District and Taluka).

2.2 Service Provided by KSWAN

To cater the needs of the various departments across the state, it is envisaged that the KSWAN shall provide the following primary services:

- **Data Services** – to integrate the existing departmental networks (for centralized projects) with KSWAN backbone and also enable de-centralized projects to migrate them to a centralized architecture
- **Voice Services** – for key official from various Government Offices across the State to speak to their peer departmental personnel at each Tiers using an IP Phone.
- **Video Services** – for Video Conferencing facility across certain government departments at Tier-1 and Tier-2 in order to enable key officials to have virtual meetings with their peers working at different locations across the state.

2.3 KSWAN Connectivity Requirements

KSWAN connectivity requirements include the dedicated links for the VC and HC Connectivity and centralized Internet gateway at SCR. Therefore the total connectivity (including bandwidth and links) for entire KSWAN is shown in Table - 1:

Table – 1 – Total KSWAN Connectivity Requirement

SL. No.	Tiers	Type of Connectivity	Links Required	Total Bandwidth (Mbps)
1.	Tier – 1	Vertical Connectivity from SCR	42	84
		Horizontal Connectivity from SCR	118	89
		Internet Connectivity to SCR	2	4
2.	Tier – 2	Vertical Connectivity from DCRs to respective TCRs	141	282
		Horizontal Connectivity From DCR	26	7
3.	Tier – 3	Horizontal Connectivity From TCR	79	11
Total KSWAN Connectivity Requirement			408 Links	477 Mbps

Links are defined as follows:

- Connection between two KSWAN PoPs in respective tiers
- Connection between KSWAN PoPs and Horizontal nodes in respective tiers

3 OBJECTIVES OF EOI

CeG is soliciting information regarding approaches, appropriate technologies for efficient and manageable connectivity for KSWAN by which all Government Offices can avail KSWAN benefits and the services can be provided to the citizens of State Of Karnataka in a secure and efficient way. CeG is especially interested in the views and recommendations from various telecom service providers to arrive at the best possible solutions. CeG encourages all potentially interested telecom service providers to respond.

The objectives of EOI are:

- To formally communicate overall KSWAN Connectivity requirements to the Bandwidth Service Providers
- Identify methods and technologies to connect ALL the required nodes in the KSWAN
- Identify acceptable norms for SLA, its measurement methodology and integration with KSWAN Network management System (**NMS**)

4 PRE-QUALIFICATION FOR EOI PARTICIPATION

Following are the pre-qualification criteria for EOI participation:

1. The company shall be Licensed Telecom Service Provider and the required licenses should be valid for minimum 6 years from the date of opening of the EOI.
2. The company shall have Point of Presence (**PoP**) in **all Districts and at least in 80% of Talukas of Karnataka** for providing 2 Mbps or more data bandwidth in the State. List of districts and corresponding Talukas are given in Annexure II.
3. The company shall notify and inform its roadmap for completion of balance locations of Talukas. However, company shall provide 2 Mbps or more connectivity to all PoPs within the timeline given in section-5 of this EOI document.
4. The company shall have an audited annual turnover of minimum of INR 25 Crores in the last two years.
5. Consortiums of companies are not permitted.

This EOI is issued for the purpose of obtaining information for consideration by CeG in analyzing appropriate and suitable technology and service parameters. This EOI does not constitute a commitment to any procurement, or an offer of a contract or prospective contract. CeG shall not be liable for any costs incurred by any potential vendor in the preparation and submission of information in response to this EOI.

5 TIMELINE FOR THE CONNECTIVITY REQUIREMENT

Timeline for completion of the bandwidth connectivity are as follows:

SL. No.	Activity	Completion Date
1.	Connectivity required for: <ul style="list-style-type: none"> • Vertical Connectivity from SCR to all DCRs • Vertical Connectivity from DCRs to respective TCRs 	10-10-2008
2.	Connectivity required for: <ul style="list-style-type: none"> • Horizontal Connectivity from SCR • Horizontal Connectivity From DCRs • Horizontal Connectivity From TCRs 	15-01-2009

6 EOI PROCESS

The complete process of information gathering, processing and subsequent discussions with the qualified companies have been planned in a structured way, however there will be sufficient scope for free exchanges of ideas. The process will be as follows:

1. Company shall fill-up Form-1 and Form-2 of Annexure-I and submit to CeG by the time, date and at the address given in this EOI document.
2. The companies will be short-listed according to the pre-qualification criteria as described in section 4 and the information submitted by the companies in Form-1 and Form-2 of Annexure I.
3. Only short-listed companies will be qualified for further discussions.
4. A detailed description of the KSWAN and its connectivity requirement will be presented by CeG to the short-listed companies. After the presentation, appropriate information and a questionnaire will be given to all the companies.
5. All the short-listed companies will be invited for technical presentation and discussions on their proposed solutions and technologies, before a committee constituted for that purpose. Companies are required to furnish the filled-up questionnaire by the due date mentioned in this EOI document. Time table for the presentations will be announced in due course.
- 6. CeG will consider only the short-listed companies for the purpose of issuing the RFP and soliciting formal proposals.**
7. The CeG may also schedule a vendor forum and/ or contact prospective vendors to request for product demonstrations or more information, if this is determined to be in the best interests of the project.

7 RESPONSE REQUIREMENT

7.1 Response Format

Respondents are requested to submit their responses in two parts, clearly labeled according to the following categories.

Part – 1 – General Information

This part includes general background information of the respondent companies, with information of the contact

person for matters relating to the EOI. Form-1 provided in Annexure-I shall be used to provide the information. Form-1 shall be sealed in a separate cover and labeled as "General Information".

Part – 2 – Financial Information

This part includes the financial background information of the respondent companies, with information regarding audited financial statements for the previous two (2) years. Form-2 provided in Annexure-I shall be used to provide the information. Form-2 shall be sealed in a separate cover and labelled as "Financial Information".

Copies of Response

Companies shall submit two (2) hard copies of their responses to this EOI to the designated point of contact by the date and time specified in this EOI document. All the documents shall be inside a sealed cover with labeled as "EOI Response for KSWAN Bandwidth from <company name>".

7.2 Response Date and Point of Contact

Response to this EOI shall be submitted by 3:00 pm on 20-08-2008. CeG's official point of contact for this EOI and the delivery point for responses and correspondence are:

Project Director, KSWAN

Centre for e-Governance, e-Governance Secretariat

Room No. 108, 1st Floor, MS Building,

Bangalore, Karnataka – 560 001

Tel : + 91 80 22371090, Fax: +91 80 22371089

E-mail: ceo-ceg@karnataka.gov.in

7.3 EOI Cancellation

CeG reserves the right to withdraw/cancel this EOI without assigning any reasons thereof.

7.4 DISCLAIMERS

The information submitted in response to this EOI may be subject to public release as per RTI Act and Rules. Therefore, inclusion of proprietary or confidential business information in your response is at your own risk.

This notice is for informational purposes only and does not constitute a solicitation or RFP. This notice is not to be construed as a commitment by the Government to contract for services. Please be advised that the Government will not pay for any information provided as a result of this notice and will not recognize or reimburse any cost associated with any EOI submission.

8 SCHEDULE FOR EOI PROCESS

SL. No.	Event	Schedule Date
1	Release of EOI	09-08-2008
2	Due Date for Submission of Responses to EOI	20-08-2008
3	Intimation to short listed companies	22-08-2008
4	Presentation by CeG on KSWAN connectivity requirement	25-08-2008
5	Submission of Questionnaire	08-09-2008
6	Presentation by the companies and discussions	15-09-2008 to 18-09-2008

9 ANNEXURE I - RESPONSE FORMATS

Form – 1 – General Information of Respondent

1. General Information			
Particulars	Details to be Furnished		
Details of the Respondent Company			
Name			
Address			
Telephone		Fax	
E-mail		Website	
Details of Contact Person			
Name			
Address			
Telephone		Email	
Is the respondent a consortium of companies? (Yes/No)			
License Details			
(Mention License Category e.g. Basic Telecom service providers, Internet Service providers etc. as categorized by TRAI)			
License Ref. No:			
Validity Period:			
Company's Presence in the Karnataka State			
Statement affirming through affidavit or relevant documents (Objective and Trustworthy Documentary Proof) stating "PoP in ALL districts and in at least 80% of the Talukas of Karnataka State to provide bandwidth for data services.			
Statement affirming that the balance Taluka's connectivity (if any) shall be provided by the timeline given in this EOI document			
Provide the list of PoPs in districts and Talukas			

Form – 2 – Financial Details of the Respondent

2. Financial Details			
Status (Public Ltd./ Pvt. Ltd etc.)	Details of Incorporation & Commencement	Turnover (as on 31 st Mar, 2008 and evidenced by audited financial statements)	
	<u>Incorporation of company</u> Date: ROC Ref:	F.Y. 06-07	F.Y. 07-08

10 ANNEXURE II – LIST OF SCR, DCR & TCR

10.1 SCR PoP

Room No–11,

Vikas Soudha, Bangalore – 560 001

10.2 DCR PoPs

S No	District POP location
1	Deputy Commissioner, Bagalkot – 587 101
2	Deputy Commissioner, Belgaum – 590 001
3	Deputy Commissioner, Bellary – 588 101
4	Deputy Commissioner, Bidar – 585 401
5	Deputy Commissioner, Bijapur – 546 101
6	Deputy Commissioner, Chamarajanagar – 571 313
7	Dseputy Commissioner, Chickaballapur – 562 101
8	Deputy Commissioner, Chikmagalur – 577 101
9	Deputy Commissioner, Chitradurga – 577 501
10	Deputy Commissioner, Davangere – 577 006
11	Deputy Commissioner, Dharwad – 580 001
12	Deputy Commissioner, Gadag – 582 101
13	Deputy Commissioner, Gulbarga – 585 101
14	Deputy Commissioner, Hassan – 573 201
15	Deputy Commissioner, Haveri – 581 133
16	Deputy Commissioner, Karwar – 581 301
17	Deputy Commissioner, Kodagu – 571 201
18	Deputy Commissioner, Koppal – 583 231
19	Deputy Commissioner, Kolar – 563 101
20	Deputy Commissioner, Mandya – 571 410

21	Deputy Commissioner, Mangalore – 575 001
22	Deputy Commissioner, Mysore – 570 001
23	Deputy Commissioner, Raichur – 584 101
24	Deputy Commissioner, Ramnagaram – 571 511
25	Deputy Commissioner, Shimoga – 577 201
26	Deputy Commissioner, Tumkur – 572 101
27	Deputy Commissioner, Udupi – 576 101

10.3 TCR PoPs

District Name	Taluk Location
1. Bangalore	
	1. Yelahanka
	2. K.R.Pura
	3. Anekal
	4. Doddaballapura
	5. Nelamangala
	6. Devanahalli
	7. Hoskote
2. Ramnagaram	
	1. Channapatna
	2. Kanakapura
	3. Magadi
3. Kolar	
	1. Bangarpete
	2. Srinivasapura
	3. Malur
	4. Mulbagak
	5. Gowribidanur
	6. Sidlaghatta

	7. Bagepalli
4. Chikballapur	
	1. Chinthamani
	2. Gudibande
5. Tumkur	
	1. Gubbi
	2. Kunigal
	3. Madhugiri
	4. Pavagada
	5. Sira
	6. Koratagere
	7. Tiptur
	8. Chicknayakanana
	9. Turuvekere
6. Chitradurga	
	1. Challakere
	2. Molakalmuru
	3. Hiriyyur
	4. Holalkere
	5. Hosadurga
7. Davangere	
	1. Channagiri
	2. Honnali
	3. Harppanahalli
	4. Harihara
	5. Jagalur
8. Shimoga	
	1. Bhadravathi
	2. Shikaripura
	3. Soraba
	4. Sagar
	5. Hosanagar
	6. Thirthahalli

9. Belgaum	
	1. N.Hukkeri
	2. Khanapur
	3. Bylahongala
	4. Savadatti
	5. Gokak
	6. Ramdurga
	7. Chikkodi
	8. Raibhag
	9. Athani
10. Bijapur	
	1. B, Bagewadi
	2. Muddebihal
	3. Indi
	4. Sindagi
11. Bagalkote	
	1. Jamakhandi
	2. Mudhol
	3. Bilagi
	4. Badami
	5. Hungund
12. Dharwad	
	1. Hubli
	2. Navalgund
	3. Kalaghatagi
	4. Kundagol
13. Haveri	
	1. Ranibennur
	2. Hirekerur
	3. Byadagi
	4. Savanur
	5. Shiggou
	6. Hangal

14. Gadag	
	1. Shirahatti
	2. Rona
	3. Naragund
	4. Mundaragi
15. Bidar	
	1. Aurad
	2. Basavakalyana
	3. Balki
	4. Humnabad
16. Gulbarga	
	1. Alanda
	2. Afzalpur
	3. Jevargi
	4. Sedam
	5. Chittapur
	6. Chincholi
	7. Yadgir
	8. Shahpur
	9. Shorapur
17. Karwar	
	1. Joida
	2. Haliyal
	3. Kumta
	4. Ankola
	5. Honnawar
	6. Bhatkal
	7. Sirsi
	8. Siddapur
	9. Mundagod
	10. Yellapura
18. Udupi	
	1. Kundapur

	2. Karkala
19. Mangalore	
	1. Bantwal
	2. Puttur
	3. Sulya
	4. Belthangadi
20. Kodagu	
	1. Somwarpet
	2. Veerajpet
21. Chickmagalur	
	1. Koppa
	2. Kadur
	3. Mudigere
	4. Narasimharaja
	5. Sringeri
	6. Tarikere
22. Hassan	
	1. Arasikere
	2. Arakalgud
	3. Alur
	4. Belur
	5. Chennarayapatna
	6. Holenarasipura
	7. Sakaleshpura
23. Mandya	
	1. K.R. Pet
	2. Maddur
	3. Malavalli
	4. Pandavapura
	5. Srirangapatna
	6. Nagamangalal
24. Chamarajnagar	
	1. Kollegal

	2. Yelandur
	3. Gudalpet
25. Mysore	
	1. K..R. Nagar
	2. Hunsur
	3. Nanjangud
	4. T.Narasipura
	5. Periyapatna
	6. Heggadadevana Kote
26. Bellary	
	1. Sandur
	2. Sirguppa
	3. Hospet
	4. Hadgali
	5. H.B.Halli
	6. Kudligi
27. Koppal	
	1. Gangavathi
	2. Kushtagi
	3. Yelburga
28. Raichur	
	1. Devadurga
	2. Manvi
	3. Lingasagur
	4. Sindanur