

सिलबन्दी दरभाउपत्रका साथ पेश गर्न पर्ने कागजातहरू

१. VAT/PAN दर्ता प्रमाणित प्रतिलिपि तथा कम्पनी दर्ताको नोटरी पब्लिकबाट प्रमाणित प्रतिलिपि (संस्थाको हकमा) र PAN दर्ता प्रमाणित प्रतिलिपि (व्यक्तिको हकमा)
२. आ.व. २०६७/०६८ को करचुक्ता प्रमाणपत्रको नोटरी पब्लिकबाट प्रमाणित प्रतिलिपि ।
३. आफुले कबोल गरेको रकमको साढे दुई प्रतिशतले हुन आउने रकम प्राधिकरणको Nabil Bank को खाता नं. ०१०६०११६६४२०१ मा नगद दाखिला गरेको भौचर रसिद वा ७५ दिन Validity रहेको बैंक ग्यारेन्टी ।
४. सिलबन्दी दरभाउपत्र फाराम दस्तुर रु. ३००।- नगद दाखिला गरेको रसिद ।
५. सिलबन्दी दरभाउपत्र दाखिला गर्नुपर्ने अन्तिम मिति र समय
२०६८।०३।०१ दिनको ५:०० बजे सम्म ।
६. सिलबन्दी दरभाउपत्र मिति २०६८।०३।०३ गते दिनको ३ बजे व्यक्ति तथा संस्थाको आधिकारिक प्रतिनिधिको रोहवरमा खोलिनेछ । उक्त मिति र समयमा आधिकारिक प्रतिनिधि उपस्थित नभएता पनि दरभाउपत्र खोलिनेछ ।
७. सिलबन्दी दरभाउपत्रको मान्य अवधि पैंतालिस दिनको हुनेछ ।
८. सिलबन्दी दरभाउपत्र पाइने स्थान : प्रशासन शाखा

नेपाल दुरसञ्चार प्राधिकरण
त्रिपुरेश्वर, काठमाण्डौ ।

मिति

श्रीमान् अध्यक्ष ज्यू,
नेपाल दूरसञ्चार प्राधिकरण,
त्रिपुरेश्वर, काठमाण्डौ ।

विषय :संब धमा ।

उपरोक्त सम्बन्धमा त्यस प्राधिकरणको मिति मा प्रकाशित सूचना
वमोजिम.....विषयकोसेवा खरिद
सम्बन्धमा संलग्न वमोजिमले जम्मा रु. मा उपलब्ध गराउन मञ्जुर भई
प्राधिकरणमा धरौटि वापत बुझाएको नगद रु. को रसिद वा मिति
सम्म म्याद रहेको रु. को बैंक ग्यारेन्टि संलग्न गरी निवेदन पेश गरको छु ।

निवेदक

नाम :

हस्ताक्षर :

फोन नं. :

संस्थाको हकमा छाप :

Nepal Telecommunications Authority

Technical Qualification Check-list Form

System Analysis and Design of Software Modules (QoS, WISP-DB, Type Approval Certificate)

1. Name of the Main Expert (System Analyst)

2. Highest Educational Qualification of the Expert

3. Stream of the Degree Achieved by the Expert (Computer Science, Computer Engineering, IT).

4. Working Experience of the Expert (Exp. with System Analysis, Design and Testing).
_____ Years _____ Month(s)
5. Expert's Knowledge of Programming Languages (like C, C++, Java, CASE Tools...)

6. Main Expert's Proven Experience Documents (list the exp. Certificates if any)

7. Any Other professional Certificates (degree) achieved by the experts (please specify if any)

Note: Consultant/Consulting Firm should provide copy of all the necessary documents mentioned above during proposal submission.

Terms of Reference (ToR)

A Study to develop

Interconnection Guideline to Suit into Converged Network Environment

Background

Telecommunications convergence, network convergence or simply **convergence** are broad terms used to describe emerging telecommunications technologies, and network architecture used to migrate multiple communications services into a single network. Specifically this involves the converging of previously distinct media such as telephony and data communications into common interfaces on single devices. Convergence of Telecommunication technology permits the manipulation of all forms of information, voice, data, and video. Telecommunication has changed from a world of scarcity to one of seemingly limitless capacity. Consequently, the possibility of audience interactivity morphs the passive audience into an engaged audience.

To catch the pace of rapid change in technology in the fields of telecommunication, it is necessary to update the legacy Interconnection Guideline-2065 approved by NTA. This Interconnection Guideline (GI) sets out the policy objectives for interconnection of facilities and services between Licensees within the telecommunications sector in Nepal pursuant to Section 52 of the Telecommunications Act, 2053 (1997). Majority of telecom networks in this world are entering into the digital packet based technology (IP Based technology) emerging from the technologies like VoIP, NGN et cetera.

This study will focus on the interconnection arrangement describing the significant evolution which is taking place in (IP) Interconnection and in the networks of Nepalese operators, particularly PSTN-Incumbent's networks, reflecting the developments towards Next Generation Networks (NGN) and the massive adoption of IP based services such as VoIP.

Objectives

- ◆ The aim of this study is to present the state of the art in IP interconnection (IP-IC) in Nepal and to outline how technological change towards VoIP/NGNs may affect regulation in this matter. The implications of these developments for interconnection regimes with different billing principles that might be applicable for interconnection in IP-enabled NGNs should be analyzed.
- ◆ This study helps to update the current telecom interconnection guideline to make it in line with Future networking technologies (Converged Network Environment)

Scope

In order to achieve the objectives, the scopes of the research are:

1. Study the international practices for national and international interconnection with its administrative, technical and billing arrangement.
2. Study the existing interconnection guideline of Nepal to identify its current issues.
3. Study about the possibility of Migration to digital packet based network technologies for current Nepalese telecom operators.
4. Study about the service opportunities offered by converged networks and its standards.
5. Study about the future of IP/NGN interconnections with identification of drivers of change (changes in network architecture, structure and cost, transition issues, wholesale billing principle).
6. Study about the implications for interconnection products and network/service provision.
7. Study about the QoS aspects in IP/NGN interconnection.
8. Study of the Coasian (commercially negotiations) approach to QoS.
9. Identify the change required in the legacy interconnection guideline to address interconnection for converged network environment or propose an analysis framework to develop updated Interconnection Guideline for Nepal.
10. Identify possible regulatory challenges for the enforcement of Interconnection Regimes if developed, considering the converged network technologies.
11. Any other relevant issues regarding interconnection arrangement with converged network technologies.

WorkingGroup

The working group consists of a team/consulting-firm having professional(s) from the area of Electronics, Computer and Communication engineering having broad knowledge of telecommunications and computer network with minimum qualification of Master's Degree in the related field, should offer a wide range of skills required by the nature of research and having at least Seven years experience in telecommunication sector.

Technical Evaluation Criteria

	Expert Qualification	Marks Allocation	Total Score
1	Educational Qualification	Relevant Masters Degree(10) Ph.D. Degree (20)	20
2	Total Work Experience	>=7 Yrs (10+, 1 Mark Each for every additional year upto 12yrs)	15
3	Relevant Field Experience (IP Based Network, Telecom Network Research...)	Research work (two marks each for up to 5 researches)	10
4	Education Degree (Masters Level)	>=75 % or >=3.5 (5 marks) <75% or <3.5 (3 marks)	5
5	Proposal with Research Plan (literature knowledge, writings, arrangements, detail research plan, ...etc..)	Proposal evaluation....(5-10)	10
		Total Marks	60
		Pass Marks	28

**Technically Qualified and lowest quoted (Company/Consultant) will be awarded to carry-out this research.*

* Evaluation criteria will be applied to Expert(s) (individual or assigned from consulting form).

Deliverables

- Submit the Inception Report within 15 days from the date of assignment.
- Submit the draft midterm report after 1.5 months from the date of assignment
- Submit draft final research report within 2.5 months from the date of assignment
- Submit changes taking into consideration/final report with necessary modification within 15 days from the comment/feedback obtained on draft final report from NTA.

Time Line

The research shall be completed the aforementioned task within Three months.

Estimated Budget

The total allocated budget as per annual programmed 2068/69 is NRS. 200,000. NTA may contract with consultant/consulting-form to pay the quoted amount not exceeding the allocated annual budget by evaluating his/her technical proposal and financial proposal. Following is the payment procedure for the Consultant/Consulting Form:

1. 20% amount would be released after submission of inception report.
2. 30% amount would be released after submission of Draft Mid-Term report
3. Next 50% amount would be released after the approval of final report approved by NTA.

Submission of Proposal

Technical and Financial proposals are invited from the consultant(s)/consulting-form including his/her details profile with relevance experiences and the detail research plan. The Necessary information for financial documents to be submitted will be provided by NTA upon request.