



Nepal – India
Joint Project Office
(Government of Nepal and Government of India)
Sapta Kosi Sun Kosi Investigation (JPO-SKSKI)
Biratnagar-13, Nepal

EXPRESSION OF INTEREST
for
Irrigation Studies of Command Area in
Nepalese Territory
of
Sapta Kosi High Dam Multipurpose Project
&
Sun Kosi Storage-cum-Diversion Scheme

EOI No. 01/2014-15/JPO-SKSKI/BRT/NEPAL

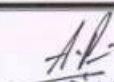
PROJECT MANAGER
JOINT PROJECT OFFICE
SAPTA KOSI SUN KOSI INVESTIGATION
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Important Note:

- (i) BIDDER SHOULD SUBMIT THIS DOCUMENT IN ORIGINAL DULY FILLED IN AND SIGNED WITH FIRM'S STAMP ON EACH PAGE.
- (ii) THE BIDDER SHOULD READ ALL THE INSTRUCTIONS IN THE DOCUMENT THOROUGHLY BEFORE SUBMITTING THE PROPOSAL AND ADHERE TO THE DATES GIVEN.

JUNE, 2014

COST OF DOCUMENT : NRs.1000/- (IRs.625/-)


Joint Project Office
Sapta Kosi Sun Kosi Investigation
Biratnagar Nepal

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Joint Project Office
Kapla Kosi Sun Kosi Investigator
Biratnagar Nepal

NOTICE INVITING EXPRESSION OF INTEREST



Nepal – India
Joint Project Office
(Government of Nepal and Government of India)
**Sapta Kosi Sun Kosi Investigation
(JPO-SKSKI)**
Biratnagar-13, Nepal

Notice Inviting Expression of Interest (EOI)

Project Manager, JPO-SKSKI invites Expression of Interest (EOI) from Reputed and Experienced Consulting Firms i.e. Government Departments, Organisations, Undertakings, Agencies, Joint Venture of Consulting Firms and Consultants from India and Nepal for the work of 'Irrigation Studies of Command Area (Gross Command Area approximately 9.2 Lakh Hectare) in Nepalese Territory', which is proposed to be brought under irrigation through Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme, Nepal.

Expression of Interest (EOI) document can be obtained by eligible Consulting Firms or Joint Ventures from the office of Project Manager, JPO-SKSKI, House No. 96, Siddhartha Marg, Tin Toliya, Biratnagar -13, Nepal (Phone 00977-21-533651/533652 fax 00977-21-533653/533654) on all working days up to **17:00 hrs.(NST) from 8th June to 24th June, 2014** on payment of NRs.1000/- (Nepalese Rupees One Thousand only) equivalent to IRs.625/- (Indian Rupees Six Hundred Twenty Five only) for the cost of document, in cash or through Demand Draft in favour of Project Manager, JPO-SKSKI payable at Biratnagar, Nepal. Application for EOI document will be accepted at the office of Project Manager, JPO-SKSKI by **16: 00 hrs (NST) upto 23rd June, 2014**. In case of Joint Venture, only Lead Firm can buy EOI document mentioning the names of all members of JV and submitting JV agreement. The EOI document can also be downloaded from the websites www.cwc.nic.in or www.doed.gov.np. In that case the Demand Draft for the cost of document should be enclosed with duly filled EOI document at the time of submission, without which the document shall not be entertained. Duly filled EOI document will be received in the office of Project Manager, JPO-SKSKI by **15:00 Hrs upto 27th June, 2014** and will be opened on the same day at 15:30 Hrs.

Sd/-
Project Manager,
JPO-SKSKI,
Biratnagar, Nepal



Joint Project Office
Sapta Kosi Sun Kosi Investigator
Biratnagar Nepal



**Nepal – India
Joint Project Office
(Government of Nepal and Government of India)
Sapta Kosi Sun Kosi Investigation
(JPO-SKSKI)
Biratnagar-13, Nepal**

Sub: Invitation of Expression of Interest from eligible Consulting Firms from India and Nepal for Irrigation Studies of Command Area in Nepalese Territory

1. Joint Project Office, Sapta Kosi Sun Kosi Investigation is a Joint Project Office of Government of Nepal and Government of India established on 17th August, 2004 at Biratnagar, Nepal to prepare Detailed Project Report (DPR) of Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme.
2. Joint Project Office, Sapta Kosi Sun Kosi Investigation (JPO-SKSKI), Biratnagar intends to conduct Irrigation studies of Command Area in Nepalese Territory of Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme, Nepal.
3. JPO-SKSKI invites "**Expression of Interest (EOI)**" from Indian and Nepalese Consulting Firms or their Joint Ventures to conduct Irrigation studies of Command Area in Nepalese Territory of Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme. The background information, objectives of the present study and scope of work are given in Section-B.
4. EOI documents can be obtained by eligible Consulting Firms or Joint Ventures from the Office of **Project Manager, JPO-SKSKI, House No.96, Ward No.13, Siddhartha Marg, Tin Tolya, Biratnagar, Nepal (Phone – 00977-21-533651, 533652, Fax- 00977-21-533653, 533654)** on all working days upto **17.00 Hrs from 8th June, 2014 to 24th June, 2014** on payment of NRs.1,000/- (IRs.625/-) through Cash or Demand Draft (in favour of Project Manager, JPO-SKSKI, payable at Biratnagar, Nepal). The EOI document can also be downloaded from the websites **www.cwc.nic.in** and **www.doed.gov.np**. In that case the Demand Draft for the cost of document should be enclosed with duly filled EOI document at the time of submission, without which the document shall not be entertained. In case of Joint Venture, only Lead Firm can buy EOI Document mentioning the names of all members of JV and submitting JV agreement.
5. Any clarification on the EOI document can be obtained from the office of Project Manager, JPO-SKSKI, Biratnagar, Nepal on any working day from 10.00 to 17.00 Hrs.


 Joint Project Office
 Sapta Kosi Sun Kosi Investigation
 Biratnagar Nepal

6. The Consulting Firm will be shortlisted on the basis of pre-qualification criteria set out by JPO-SKSKI as given in **Section-D**. Consulting Firms securing at least 50% score will be considered as qualified and will be invited to participate in Request for Proposal (RFP) i.e. Technical & Financial Proposal for the consultancy.
7. The envelope containing applications for Expression of Interest must be clearly marked "**Application for Expression of Interest (EOI) for Irrigation studies of Command Area in Nepalese Territory of Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme, Nepal**" on top and shall be submitted to the Project Manager, JPO-SKSKI, Biratnagar in wax sealed envelopes duly signed by the authorized representative and stamped by Consultancy Firm's seal, which must be delivered at or before **15:00 Hrs on 27th June, 2014** to:

**Joint Project Office,
Sapta Kosi Sun Kosi Investigation,
House No.-96, Siddhartha Marg,
Tin Toliya, Biratnagar-13, Nepal.
Tel: - 00977-21-533651, 533652; Fax- 00977-21-533653, 533654
Email: jposkskibr@rediffmail.com/jposkskibr@gmail.com**

8. If the deadline specified herein falls on a government holiday, the deadline shall be extended automatically to the next working day at the same hour for submission of EOI.
9. Application received after the due date will not be entertained.
10. The received EOI will be opened at **15:30 Hrs on 27th June, 2014** in the presence of the applicants or their authorized representative. However, absence of applicants or their representatives shall not obstruct or prevent the opening of EOI in anyway.
11. JPO-SKSKI reserves the right to accept or reject any or all EOIs with or without giving any reason whatsoever.
12. The qualified firms will be intimated by fax as well as by courier.
13. Further information can be obtained from the office of Project Manager during the office hours on all working days.
14. The EOI document includes the following Sections:

| | | |
|------------------|---|--|
| Section-A | : | Letter of Invitation |
| Section-B | : | Objectives and Scope of Work |
| Section-C | : | Instruction to the Consulting Firms |
| Section-D | : | Pre-qualification Criteria |
| Section-E | : | Formats for submission |



(Pravin Raj Aryal)
Project Manager (N)



(A. K. Pal)
Project Manager (I)

B.1 BACKGROUND

A Joint Project Office of Govt. of Nepal and Govt. of India for Sapta Kosi - Sun Kosi Investigation (JPO-SKSKI) established on 17th August, 2004 at Biratnagar, Nepal is preparing the Detailed Project Report (DPR) of Sapta Kosi High Dam Multipurpose Project (SKHDMP) and Sun Kosi Storage-cum-Diversion Scheme (SSDS) after carrying out necessary surveys, investigations and other related studies to meet the objective of fulfilling the requirements of Hydropower Generation, Irrigation Development, Flood Control/ Management and Navigation of both the countries from its development.

The irrigation benefit is one of the major benefits likely to be accrued from these projects to both the countries. The objective of irrigation studies is to evaluate the technical and economic feasibility of developing irrigation facilities to about 9.2 lakh ha of gross command area in Nepalese Territory and about 10.0 lakh ha of gross command area in Indian Territory through canal systems. The gross command area of 9.2 lakh ha in Nepalese Territory is inclusive of all existing irrigation projects in the project area and has been assessed based on existing topo-sheets on 1:25,000 scale, which needed firming up by the Agency during irrigation studies.

In view of the large irrigation benefits envisaged from these projects, it became pertinent to carry out the studies for development of command areas both in Nepal and India proposed to be brought under irrigation through above projects carried out as a part of the overall studies being done by JPO-SKSKI for the preparation of DPR.

Accordingly, JPO-SKSKI invited Technical and Financial Proposals for the "Irrigation Studies of command Area in Nepalese Territory proposed to be brought under irrigation through Sapta Kosi High Dam Multipurpose Project (SKHDMP) and Sun Kosi Storage-cum-Diversion Scheme (SSDS)" from the perspective bidders earlier on dated 29th September, 2005. After evaluation of bids, the consultancy for the above irrigation studies of command area in Nepalese Territory was awarded to M/s GEOCE Consultants (P) Ltd., in Joint Venture with East Consultant (P) Ltd. and Auto Carto Consult (P) Ltd., Kathmandu (Nepal) by JPO-SKSKI vide Letter of Intent dated 3rd March, 2009.

The work was to be executed in the following two parts:

- i) The first part of the work pertained to topographic survey of command area to the extent required for the preparation of DPR (A minimum 10% of Culturable Command Area in minimum three patches representing the total command area. The actual extent of topographical survey of command area could be more than 10% but for the purpose of financial evaluation, only 10% of CCA was considered), the canal alignment surveys and topographical survey of area required for other canal related structures including collection of data required for the design of irrigation component. This part also included the typical design

of Canal Structures and overall planning and design of the system.

- ii) The second part of the work is the irrigation studies covering finalization of gross and culturable command area, finalization of cropping pattern, monthly irrigation water requirement based on cropping pattern, semi detailed soil survey, technical and economic evaluation of the project.

As per the schedule of deliverables, the consultant was to submit the following reports from time to time based on the completion of various stages of the studies stipulated in the given terms of reference and scope of work:

- i) **Inception Report** - Highlighting earlier studies, understanding of the project and project area, assessing the feasibility and giving recommendations, planning of field works etc.
- ii) **Basic Macro Planning Report** - Covering the assessment and finalization of GCA, CCA and Net Irrigable Area (NIA) of the Project to be commanded by different canal systems of SKHDMP and SSDS, assessment of expansion/ stabilization of irrigation system in the existing command areas through SKHDMP and SSDS, requirement of main/ branch canals & lower order canals to serve entire command area and their delineation on available topo-sheets of 1:25,000 scale, identification of different soil types, land use, land pattern etc, prevailing agricultural practices and finalization of cropping pattern, irrigation intensities and irrigation water requirement etc. Moreover this report would cover the selection of representative area for micro planning based on the broad soil type; topography and other relevant features of the command area and selection of area for survey of on-farm-development works.
- iii) **Interim Field Report** - Based on completion of 40% of the field surveys and investigation works.
- iii) **Field Report** - Based on completion of entire field survey work and field investigations including semi-detailed soil survey and geo-tech investigations.
- iv) **Draft Report** - Based on completion of designs of canals and canal structures, detailed planning and design of irrigation and drainage network, micro irrigation planning on 1:10,000 scale maps with 0.5 m contour interval maps for 10 % of CCA, planning and design of On Farm Development works on 1:2500 scale village maps with 0.25 m contour interval for 1% of CCA spread in different sub-patches based on soil types etc. and
- v) **Final Report** - Based on approval of draft report.

However, M/s GEOCE Consultants (P) Ltd., in Joint Venture with East Consultant (P) Ltd. and Auto Carto Consult (P) Ltd. abandoned the consultancy work after submission of Macro Planning Report to JPO-SKSKI. Thus, the remaining works of irrigation studies viz. field survey and investigation, soil survey, micro planning on 1:10000 scale showing alignment of various categories of level of canals, design of canal and canal structures, On Farm Development (OFD) works planning on 1:2500 scale maps etc. are yet to be done.

B.2 OBJECTIVE

The objective of this EOI is aimed at getting all the remaining irrigation studies of Command Area in Nepalese Territory to be carried out and completed, which has been left out by the previous consultant and submission of remaining reports viz. Interim Field Report, Field Report, Draft Final Report and Final Report, along with the Review Report on Macro Planning Studies carried out earlier by the previous consultant. The irrigation studies for development of command area in Indian Territory are being done separately by Indian Consultant M/s WAPCOS Ltd., Gurgaon (Haryana). The present EOI is for studies in Nepalese Territory only.

B.3 SCOPE OF WORK (FOR REMAINING IRRIGATION STUDIES AND COMMAND AREA SURVEY)

In the Macro Planning Studies carried out by the previous consultant, the parameters like review of existing, planned and potential of irrigation development in Nepal, identification of new command area to be brought under irrigation through SKHDMP and SSDS, assessment of command area for irrigation stabilization, cropping pattern to be adopted, assessment of water requirement for irrigation for new as well as existing command area, fixation of tentative canal alignments on topo-sheets, selection of areas for micro planning etc. have been decided.

As such, the scope of work for the purpose of this EOI would comprise of carrying out the remaining irrigation studies for the development of command Area in Nepalese territory under SKHDMP and SSDS along with review of Macro Planning Studies carried out by the previous consultant and also subject to modifications, if any, suggested by JPO-SKSKI at any point of time.

In case any further clarifications are required regarding the scope of work, the same could be sought for from JPO-SKSKI, Biratnagar.

B.4 REPORTING OBLIGATIONS OF THE CONSULTING FIRM AND THE APPROVAL OF REPORTS

The presentation and format of the reports shall be decided jointly by the Consulting Firm and JPO-SKSKI after award of work. The Consulting Firm shall furnish the following reports in hard and electronic copies in requisite numbers.

The Report of Irrigation Studies of Command Area shall be concise and adequate. The main text will focus on findings, conclusions and recommended actions, supported by summaries of data collected and citations for any references used in interpreting those data. Detailed or un-interpreted data are not appropriate in the main text and should be presented as appendix. Unpublished documents used in the assessment may not be readily available and should also be assembled in an appendix.

Hard copy of large-scale topographic maps, cross-sections and longitudinal sections shall be handed over to JPO-SKSKI. In case of maps and drawings, the database shall be prepared in layers for each feature. The drawing shall be Auto-CAD compatible. Each feature shall have its attribute table. Digital database at map sheet level shall also be provided.

Review Report of Macro Planning Studies, Interim Field Report, Field Report, Draft Final Report and Final Reports shall be delivered in time as per the work schedule. The reports and field survey work shall be done to the satisfaction of JPO-SKSKI.

Field visits to monitor the work and progress as and when deemed necessary shall be carried out by JPO-SKSKI.

B.4.1 Review Report Macro Planning on Irrigation Studies of Command Area

The objective of this report is to get an overall understanding and assessment of the work already completed upto macro planning (as given in Section B.1), balance irrigation studies required to be done in Nepalese territory, assessment of the field conditions in order to plan economically and to streamline the studies and survey activities more effectively in the field.

It should elaborate on the concrete methodology to carry out the stipulated scope of work. It should also give in detail general planning of works the consultant is required to perform. The report shall outline the summary of work already completed and balance work to be done under this project, a detailed work program, working methods proposed for undertaking the studies etc. This report shall be submitted **within one month** from date of issue of 'Letter of Intent'. JPO-SKSKI will examine the said Report and communicate observations thereon within fifteen days from the date of receipt of Report.

B.4.2 Interim Field Report on Irrigation Studies of Command Area

At this stage at least Forty percent (40%) of the field surveys and investigation works should have been completed. The Interim Field Report shall include the finding of the study completed up to the time of submission of the Interim Field Report. It shall include findings of desk studies and literature review, reviews of policies, guidelines, manuals and data collected, identified issues and alternatives looked up to the time of Interim Report submission. The Consulting Firm shall report any deviation suggested or required from the original plan of the field work in this report. Whatsoever the reason may be, it would be the duty of the Consulting Firm to proceed with changes only after receiving approval from JPO-SKSKI. The Interim Field Report shall be submitted **within three months and fifteen days** from date of issue of Letter of Intent. JPO-SKSKI may review the Interim Report and make comments, if any, within a period of fifteen days from the date of receipt. Comments made by JPO-SKSKI shall be incorporated in the Field Report.

B.4.3 Field Report on Irrigation Studies of Command Area

Upon successful completion of the field survey work, the Consulting Firm shall prepare a comprehensive Field Report and submit to JPO-SKSKI for approval **within Six (6) months** from date of issue of Letter of Intent. The report shall include the findings of entire field survey work. Any discrepancy observed in this report by JPO-SKSKI shall be rectified in the Draft Final Report or if any part of the survey is not found as per satisfaction of JPO-SKSKI, the Consulting Firm may be asked to go back to the field. JPO-SKSKI will examine the field report and communicate observation thereon within fifteen days from the date of receipt of Report.

B.4.4 Draft Final Report on Irrigation Studies of Command Area

Draft Final Command Area Study report shall be submitted **within 7 month and fifteen days** from date of issue of letter of intent. The Draft Report must include the layout plan of complete command area and canal network, design of Main and Branch Canals and major distributaries, typical design of canals structures etc. Detail planning and design of Irrigation and Drainage network shall also be

included in the Report. As specified, minimum 10% of net CCA shall be surveyed on 1:10,000 scale with 0.5 m contour interval and mapped. Design of 'On Farm Development Work' shall also be included in this report with necessary supporting documents, data, drawings and maps. JPO-SKSKI will examine the Draft Report and communicate observation thereon within fifteen days from the date of receipt.

B.4.5 Final Report on Irrigation Studies of Command Area

The Final Report on Irrigation Studies of Command Area shall be submitted to JPO-SKSKI **within one month from the date of approval of draft report**. The Consulting Firm shall also submit the electronic copy of the approved Command Area Survey Report.

B.5 PROJECT AREA

The project area extends from Mechi Nadi at Jhapa district in the East to Uriya Nadi at Parsa District in the West. The unit of study for Command Area Studies shall be the following districts in Nepalese Territory:

(i) Jhapa; (ii) Morang; (iii) Sunsari; (iv) Udayapur; (v) Saptari; (vi) Siraha; (vii) Dhanusa; (viii) Sindhuli; (ix) Mahottari; (x) Sarlahi; (xi) Rautahat; (xii) Bara and (xiii) Parsa in Mechi, Kosi, Sagarmatha, Janakpur and Narayani Zones of Eastern and Central Development Regions.

The tentative gross command area in Nepalese Territory including command already being served by existing irrigation projects has been estimated to be about 9.2 Lakhs hectare based on available topo sheets on 1:25000 scale and canals FSL at head regulators as given in Feasibility Report of Sapta Kosi High Dam Project prepared by GOI in 1981 and Report of Sun Kosi Storage-cum-Diversion Scheme as available in Master Plan Studies of Kosi Basin carried out by JICA in 1985. The approximate gross command area as given above may change according to the pond level at the intake structures of the off taking canals and as per the site condition. In case the assumed pond level is reviewed the same shall be intimated to the Consulting Firm by JPO-SKSKI.

The tentative breakdown of gross command area in the entire Project Area is given in Table - 1 below.

TABLE 1: TENTATIVE BREAKDOWN OF GROSS COMMAND AREA (in Nepal)

| S. No. | Project | Canal | Area (Ha) | Length (km) |
|-----------------------------------|---|--|----------------|-------------|
| Scenario 1 | | | | |
| 1 | SKHDMP, canal off-taking from Sisauli Barrage at Sapta Kosi River (Pond Level RL 113.4 m) | Eastern Chatra Canal upto Mechi River | 289,319 | 116 |
| | | Western Chatra Canal upto Khando River | 54,185 | 74 |
| Total of SKHDMP | | | 343,504 | 190 |
| 2 | SSDS, canal off taking from Kamala Dam at Kamala River at Timnai. (Pond Level RL 137.2 m) | Eastern Kamala Canal upto the alignment of Sapta Kosi West Canal | 139,558 | 118 |
| | | Western Kamala Canal upto Uriya River near Nepal-India border in Parsa District | 434,394 | 181 |
| Total of SSDS | | | 573,952 | 299 |
| Total of SKHDMP & SSDS | | | 917,456 | 489 |
| Scenario 2 | | | | |
| 1 | SKHDMP, canal off-taking from Sisauli Barrage at Sapta Kosi River (Pond Level RL 113.4 m) | Eastern Chatra Canal upto Mechi River | 289,319 | 116 |
| | | Western Chatra Canal upto Nepal-India border in Rauthat District after crossing existing Gandak canal. | 266,262 | 262 |
| Total of SKHDMP | | | 555,581 | 378 |
| 2 | SSDS, canal off-taking from Kamala Dam at Kamala River at Timnai. (Pond Level RL 137.2 m) | Eastern Kamala Canal upto the alignment of Sapta Kosi West Canal | 49,944 | 118 |
| | | Western Kamala Canal upto Uriya River near Nepal-India border in Parsa District | 311,931 | 181 |
| Total of SSDS | | | 361,875 | 299 |
| Total of SKHDMP & SSDS | | | 917,456 | 677 |

B.6 METHODOLOGY

The Consulting Firm has to develop concrete methodology to carry out the remaining works of Irrigation Studies of Command Area. The methodology should be compatible to the universally accepted norms of Irrigation Engineering and address the guidelines set by both Government of Nepal and Government of India.

B.7 DURATION OF THE STUDY

The Command Area Studies of Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme shall be completed within a period of **Nine months** from the 16th day of date of issue of 'Letter of Intent' for Commencement of Work by JPO-SKSKI. The Reports shall be submitted in accordance with work schedule. Specific dates for progress reviews, interim and final reports, and other significant events shall be as per the Work Schedule.

C. INSTRUCTIONS TO CONSULTING FIRM

C.1 INTRODUCTION

C.1.1 Scope of EOI

1. JPO-SKSKI intends to pre-qualify Reputed and Experienced Consulting Firms from India and Nepal to conduct Irrigation Studies of Command Area in Nepalese Territory proposed to be brought under irrigation through Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme in Nepal.
2. Consulting Firms interested to file their application in response to this Expression of Interest (EOI), should submit duly completed EOI document providing all the information required therein.

C.1.2 Definition of Terms

Unless otherwise specified, the following terms used in this Expression of Interest (EOI) document have the following meanings:

- a. "RFP" means a "Request for Proposal".
- b. "Authorized Entity" means the Consulting Firm or an individual authorized by the Applicant as the duly authorized entity to legally bind the Applicant to the RFP process, is the authorized signatory to the process, and is the nodal point of contact for JPO-SKSKI in connection with the process.
- c. "Proposal" means duly filled EOI document submitted by a 'Consulting Firm'.
- d. "Consulting Firm" means Government Departments, Organisations, Undertakings, Agencies, Consulting Firm / Joint Venture of Consulting Firms from India and Nepal applying for the Irrigation Studies of Command Area in Nepalese Territory proposed to be brought under Irrigation through Sapta Kosi High Dam Multi Purpose Project and Sun Kosi Storage-cum-Diversion Scheme (Mentioned in Letter of Invitation).
- e. "SKHDMP" means "Sapta Kosi High Dam Multipurpose Project".
- f. "SSDS" means "Sun Kosi Storage-cum-Diversion Scheme".
- g. "GOI" means "Government of India".
- h. "GON" means "Government of Nepal".
- i. "MOE" means "Ministry of Energy of Government of Nepal".
- j. "DOED" means "Department of Electricity Development of Government of Nepal".
- k. "DOI" means "Department of Irrigation of Government of Nepal".
- l. "JPO-SKSKI" means "Joint Project Office, Sapta Kosi Sun Kosi Investigation, Biratnagar, Nepal".
- m. "JTE" means "Joint Team of Experts" of two countries.
- n. "JV" means "Joint Venture" of Consulting Firms.
- o. "Lead Firm" means an "entity or company that is the authorized leader of a Joint Venture comprising the Lead Firm and its constituents to perform the assignment, A Lead Firm may be an Authorized Entity".
- p. "LOI" means "Letter of Intent".

- q. "Project" means the "Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme" intended for study under RFP.
- r. "TOR" means "Terms of Reference".
- s. "VAT" means "Value Added Tax".
- t. "GCA" means "Gross Command Area"
- u. "CCA" means "Culturable Command Area".

C.1.3 Eligible Applicants

The Consulting Firm or Joint Venture of Consulting Firms shall have a good professional reputation and experience with demonstrated competence in successfully completion of irrigation studies of command area including topographical and canal alignment survey of multipurpose projects and have a sound financial status. The valid Registration Certificate of Consulting Firms, VAT/Service Tax Registration Certificate and Income Tax Registration Certificate are compulsory for the eligibility.

The Consulting Firms or Joint Venture of Consulting Firms meeting the criteria given below are eligible to carry out the Irrigation Studies of Command Area lying in Nepalese Territory:

1. The Consulting Firm or the Joint Venture must have successfully completed Irrigation Studies (Feasibility/DPR or Detail Design Level) of at least 2 (two) Irrigation Projects having total Culturable Command Area (CCA) of not less than 25,000 hectares (twenty five thousand hectares) during the last 5 (five) years, out of which, one Irrigation Project must have Culturable Command Area of not less than 15,000 hectares (fifteen thousand hectares). Also, any member of the Joint venture must have experience of minimum 5 (five) years in one of the relevant fields such as Irrigation Planning of Command Area, Design of Irrigation Structures, Topographical Survey, Geo-technical Investigations, Socio-economic Studies and Agricultural Studies in Irrigation or Multipurpose Water Resources Projects;
2. The Consulting Firm or Joint Venture should have carried out Topographical Survey of at least 25,000 hectare (twenty five thousand hectares) of command area and Canal Alignment Survey for at least 200 (two hundred) Km length of canal during the last five 5 (five) years;
3. In case Consulting Firm is a Joint Venture, it shall not have more than 4 (four) Firms including Lead Firm;
4. The Consulting Firm (total of all the partners in case of JV) must have average annual turnover of not less than NRs.5.0 crore (IRs.3.12 crore) during last five 5 (five) years. In case of Joint venture the Lead Firm must have average annual turnover of not less than NRs.2.0 crore (IRs.1.25 crore);
5. The Consulting Firm or Joint Venture should have at least 4 (four) experienced and independent survey teams and necessary survey equipments (Total Stations & Theodolite etc.) to conduct the Topographical Survey work of command area and Alignment Survey of canal.

C.1.4 Request and purchase of EOI Document

1. This 'Expression of Interest' document shall be made available to the consulting firm which meets the eligibility criteria as given above upon written request to **Project Manager, JPO-SKSKI, House No. 96, Ward No. 13, Siddhartha Marg, Tin Tolia, Biratnagar, Nepal (Phone-00977-21-533651, 533652; Fax-00977-21-533653, 533654)** on all working days up to **17:00 hrs.(NST) from 8th June to 24th June, 2014** on payment of NRs.1000/- (IRs.625/-) through Cash or Demand Draft (in favour of Project Manager, JPO-SKSKI, Payable at Biratnagar, Nepal). Interested eligible Consulting Firms or their representative upon submission of an application along with certified copies of necessary documents may purchase the EOI document from JPO-SKSKI. Application for EOI document will be accepted at the office of Project Manager, JPO-SKSKI by **16: 00 hrs (NST) upto 23rd June, 2014**. In case of Joint Venture only Lead Firm should buy the EOI document mentioning the names of all the partners of JV and submitting JV agreement, Corporate Registration Certificate, VAT/Service Tax and Income Tax Registration Certificates. Firm that has purchased EOI document individually may form Joint Venture with other Individual Firm that also has purchased EOI document. A Firm that purchased EOI document in Joint Venture shall not be allowed to associate with other individual Firm or Joint Venture.

The EOI document can also be downloaded from the websites www.cwc.nic.in and www.doed.gov.np. In that case the Demand Draft for the cost of document should be enclosed with duly filled EOI document at the time of submission, without which the document shall not be entertained.

C.2 CLARIFICATION AND AMENDMENT ON EOI DOCUMENT

C.2.1 Clarification on the EOI Documents

Any Firm requiring any clarification on EOI document may contact the Project Manager, JPO-SKSKI (Tel. 00977-21-533651, 00977-21-533652) during office hours on any working day prior to the deadline for submission of EOI at the address indicated in **Section-A** of EOI document. The queries can also be sent by E-mail at jposkskibr@rediffmail.com and jposkskibr@gmail.com.

C.2.2 Amendment to the EOI Documents

At any time prior to the deadline for the submission of EOI, JPO-SKSKI may amend the EOI document, for any reason whatsoever, whether on its own initiative or in response to a clarification requested by Firms. All Firms will be notified in writing of the amendments through E-mail/fax/courier, and Firms shall be bound by the amendments. Firms are required to acknowledge receipt of amendment immediately through E-mail/fax/courier. It shall be presumed that the information contained in the amendment is taken into account by the Consulting Firms in their EOI.

C.3 PREPARATION OF THE APPLICATION FOR PRE-QUALIFICATION

C.3.1 Documents comprising application for pre-qualification

The EOI submitted by the Consulting Firm shall comprise the following documents:

| | |
|------------------|---|
| Format -1 | Transmittal Letter |
| Format -2 | Commitment Letter |
| Format -3 | Identification of the Consulting Firm |
| Format -4 | Past experience of the Consulting Firm |
| Format -5 | Detailed Experience of the Consulting Firm |
| Format -6 | Experience of Key Personnel with Team Composition and Task Assignment |
| Format -7 | Financial Strength of the Consulting Firm |

(Note: All information must be furnished as per the above formats and if required additional sheets may be attached.)

C.3.2 Format and Signing of EOI

1. Each page of EOI shall be duly signed by authorized representative of the Consulting Firm and in case of Joint Venture, the Lead Firm of Joint Venture and stamped with company's seal.
2. The pre-qualification application, each consisting of the document listed in Section-C.3.1 shall be computer typed and shall be signed by the authorized representative of the Firm and stamped with Company/Firm's seal. Documentary evidence of designation of the authorized representative shall be provided in the form of power of attorney and shall be included as an attachment to the EOI.

C.3.3 Application for Joint Venture

The EOI can be submitted by a single Consulting Firm or a Joint Venture of Consulting Firms. In case of a JV, the Consulting Firms shall not split their Joint Venture till the completion of the whole work of Irrigation Studies of Command Area in Nepalese Territory as covered in the EOI Document.

The Consulting Firms of JV meeting the eligibility criteria set in Section-C.1.3 shall furnish following documents with EOI:

- Name of the Firms of Joint Venture (Not more than four firms including the Lead Firm) and name of the Lead Firm;
- Duly signed Joint Venture Agreement;
- Complete information pertaining to each such partner of Joint Venture;
- Responsibility of each partner;
- Name of the partner in-charge (i.e. Lead Firm of Joint Venture) duly evidenced by power of attorney signed legally;
- Authorized signatory of all the partners of Joint Venture; and
- Power of attorney stating name, signature and designation of the authorized representative of the Consulting Firm (Lead Firm in case of JV).

C.3.4 Litigation History

Consulting Firm shall provide information on any litigation or arbitration, if any, resulting from contracts completed, terminated or under execution over the last five years.

C.3.5 Cost of Preparation of Application and Liability

1. Consulting Firms shall bear all costs associated with preparation and submission of EOI. JPO-SKSKI shall, in no case, be responsible or liable for these costs, or have any other liability to any Consulting Firm, regardless the outcome of the EOI.
2. JPO-SKSKI shall have no obligation to any Consulting Firm to reimburse any costs incurred in preparing a response to this EOI, whatever may be the result.

C.4 SUBMISSION OF EOI

C.4.1 Sealing and Marking of EOI

1. The Firm shall seal the application for EOI in envelope, duly marking the envelope as "**Application for Expression of Interest for Irrigation studies of Command Area in Nepalese Territory of Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-cum-Diversion Scheme, Nepal**".
2. The envelope containing EOI shall be addressed to and shall be submitted to:

Project Manager,
Joint Project Office-Sapta Kosi Sun Kosi Investigation,
House No.-96, Siddhartha Marg,
Tin Toliya, Biratnagar-13, Nepal
Tel: 00977-21-533651, 533652,
Fax: 00977-21-533653, 533654
E-mail : jposkskibr@rediffmail.com / jposkskibr@gmail.com

3. The envelopes should be clearly marked with full name and address of the Consulting Firm and in case of JV, all the Firms of Joint Venture, for identification purpose. It shall be signed by authorized representative of the Consulting Firm and in case of JV by the authorized representative of Lead Firm and stamped with company's seal.

C.4.2 Deadline for Submission of EOI

1. The EOI must be submitted to the Project Manager, JPO-SKSKI, Biratnagar, Nepal at the address specified in Section-C.4.1, by 15:00 Hrs on 27th June, 2014.
2. All EOIs received after the deadline set forth in Section-C.4.2 of EOI document shall be rejected by the Project Manager, JPO-SKSKI, Biratnagar, Nepal. If deadline for submission of EOI specified herein falls on a JPO-SKSKI holiday, the deadline shall be automatically extended to the next working day at the same hour.

C.4.3 Validity of EOI

The EOI shall be valid for a period of **120 days (One hundred twenty days)** from the due date of opening of the EOI. Any change in registration, address, principal place of business and unavailability of proposed professional staff must be intimated promptly and timely to JPO-SKSKI, Biratnagar.

C.4.4 Withdrawal of EOI

No Consulting Firm shall be allowed to withdraw or make amendments to their EOI once submitted.

C.5 OPENING OF EOI

EOI received within time limit set forth in Section-C.4.2 of EOI document will be opened at 15.30 Hrs. on 27th June, 2014 by the Project Manager, JPO-SKSKI, Biratnagar, Nepal or his authorized representative on the last date of the submission of EOI in the presence of the applicants or their authorized representative, whosoever wish to attend. Absence of applicant or their authorized representative, however, shall not obstruct or prevent the opening of the EOI in any way. Applicants or their authorized representatives who are present during opening of EOI shall sign a register evidencing their attendance. During opening of EOI, JPO-SKSKI will read out the names of the Consulting Firms who have submitted the EOI.

C.6 EVALUATION OF EOI

C.6.1 Evaluation of EOI

Evaluation of EOI shall be carried out on the basis of evaluation criteria set by JPO-SKSKI as given in Section-D.

C.6.2 Clarification on EOI

1. During the process of evaluation, JPO-SKSKI may request the Consulting Firms for any clarification, which shall be sent promptly by Fax / E-mail or by any other fastest means of communication to JPO-SKSKI, Biratnagar at the address given in Section-C.4.1 of EOI document.
2. In case of failure to provide information essential to evaluate the EOI, or not to provide timely clarifications by any applicant, the Project Manager, JPO-SKSKI would be at liberty to declare such bidder as non-responsive and reject the EOI.

C.6.3 Rejection of EOI

1. JPO-SKSKI reserves the right to accept or reject any or all EOIs with or without giving any reason whatsoever. Further, the JPO-SKSKI is not bound to give any reasons and is not liable for any losses to the applicant due to such rejection.
2. Incomplete EOI shall result in rejection of EOI. All the information sought in the EOI document must be furnished. Failure to furnish all the information required in EOI document may result in rejection of EOI. Separate or additional sheets may be used for the formats given in EOI document.
3. Furnishing of false or wrong information, document or evidence in the EOI shall result in rejection of the EOI.

C.7 NOTICE OF PRE-QUALIFICATION

C.7.1 Notice of Acceptance of EOI

Pre-qualified Consulting Firms shall be informed about the acceptance of their EOI and for participating in Request for Proposal (RFP), in writing by Fax/E-mail as well as by courier.

D. PRE-QUALIFICATION CRITERIA

The following criteria shall be adopted for assessing eligibility of the Consulting Firms for pre-qualification:

| Sl. No. | Criteria | Weightage (in Marks) |
|---------|---|----------------------|
| 1. | Past Experience of the Firm | 60 |
| | (a) Number of Years of Experience | 6 |
| | (b) Past Experience of Studies in Similar Nature during last five years | 42 |
| | (c) Past Experience in carrying out Studies in Related Sectors viz. Irrigation Planning of Command Area, Design of Irrigation Structures, Geo-technical Investigations, Socio-economic Studies and Agricultural Studies in Irrigation or Multipurpose Water Resource Project; | 12 |
| 2. | Experience of Key Personnel | 25 |
| | (a) Qualification of Key Personnel in related sectors viz. (i) Irrigation Engineer/Water Resource Engineer (ii) Senior Surveyor (iii) Soil Scientist (iv) Agronomist (v) Sociologist (vi) Economist. | 7.5 |
| | (b) Experience of Key Personnel in related sectors viz. (i) Irrigation Engineer/Water Resource Engineer (ii) Senior Surveyor (iii) Soil Scientist (iv) Agronomist (v) Sociologist (vi) Economist. | 17.5 |
| 3. | Financial Strength of the Consultants | 15 |
| | (a) Average Annual Turnover for last five years | 10.0 |
| | (b) Average Annual Profit for last five years | 5.0 |
| | Maximum Marks | 100 |

The Consulting Firms scoring 50 marks or above shall be considered qualified and will be invited to participate in Request for Proposal (RFP) i.e. Technical & Financial Proposals for the consultancy.

Formats of Submission are listed as below:

| | |
|-------------------|---|
| Format - 1 | Transmittal Letter |
| Format - 2 | Commitment Letter |
| Format - 3 | Identification of the Consulting Firm (In case of Joint Venture, each partner of JV) |
| Format - 4 | Past Experience of the Consulting Firm |
| Format - 5 | Detailed Experience of the Consulting Firm |
| Format - 6 | Experience of Key Personnel with Team Composition and Task Assignment |
| Format - 7 | Financial Strength of the Consulting Firm |

TRANSMITTAL LETTER

Registered Business Name : Dated:

Registered Business Address :

To,
 The Project Manager,
 Joint Project Office, Sapta Kosi Sun Kosi Investigation,
 Biratnagar-13, Nepal

Sub: EOI for Irrigation Studies of Command Area in Nepalese Territory proposed to be brought under Irrigation through Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-Cum-Diversion Scheme in Nepal – Reg.

Dear Sir,

We hereby apply to the Joint Project Office, Sapta Kosi Sun Kosi Investigation as a Consulting Firm for providing consulting services for " **Irrigation Studies of Command Area in Nepal Territory proposed to be brought under Irrigation through Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-Cum-Diversion Scheme in Nepal** in accordance with your EOI document and as per prevailing laws & regulations of Nepal and submit herewith our EOI for your kind consideration.

We declare that statements made and the information furnished in the EOI are complete, true and correct in every respect. We authorize JPO-SKSKI or its authorized representative to verify the statements, documents and information submitted in the EOI independently, if desired by them. We agree to abide by the terms and conditions laid down by JPO-SKSKI in EOI document.

(Authorized representative of the Firm)

.....

Name:

Address:

Position:

Date:

Seal:

COMMITMENT LETTER

Date:

To,

The Project Manager,

Joint Project Office, Sapta Kosi Sun Kosi Investigation,

Biratnagar-13, Nepal

Subject:- Commitment Letter for carrying out Irrigation Studies of Command Area in Nepalese Territory proposed to be brought under Irrigation through Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-Cum-Diversion Scheme in Nepal – Reg.

Dear Sir,

We, hereby give a commitment and willingness to undertake "Irrigation Studies of Command Area in Nepalese Territory proposed to be brought under Irrigation through Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage-Cum-Diversion Scheme in Nepal" in accordance with EOI document and prevailing & applicable Laws & Regulation of Nepal. We hereby give an undertaking to abide by all applicable laws, regulations, and other requirements having the effect on the execution of the aforesaid work.

(Authorized representative of the Firm)

.....

Name:

Address:

Position:

Date:

Seal:

IDENTIFICATION OF THE CONSULTING FIRM
(In case of JV, to be filled by each Partner of JV)

Full Name of the Consulting Firm:

Type of Consulting Firm:

Address:

.....

.....

(Please attach location map of your office)

| | |
|---|---|
| Telephone number: Fax number: E-mail: Others: | Date of Establishment: Number of years of Establishment: |
| Corporate Registration: Date of Registration: Registration No: Date of last renew: Valid up to: | VAT / Service Tax Registration: Date of Registration: VAT / Service Tax Registration No: |
| Name and address of contact person: Name of Contact Person: Address: Telephone number (Office): Fax No. (Office): E-mail Address: Telephone number (Residence) | |

PAST EXPERIENCE OF THE CONSULTING FIRM

IN CARRYING OUT IRRIGATION STUDIES OF COMMAND AREA INCLUDING TOPOGRAPHICAL & CANAL ALIGNMENT SURVEYS DURING LAST FIVE YEARS

| Sl. No. | Name of the Project | Location | Value of Contract | Contract Date and Completion Date | Name and Address of Client | Description of Work Carried Out | | |
|---------|---------------------|----------|-------------------|-----------------------------------|----------------------------|--|---|--|
| | | | | | | Culturable Command Area (CCA) (in Hectare) | Area of Topographic Survey (in Hectare) | Length of Canal Alignment Survey (in Km) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

IN OTHER RELATED SECTORS VIZ. PLANNING OF COMMAND AREA, DESIGN OF IRRIGATION STRUCTURES, GEO-TECHNICAL INVESTIGATIONS, SOCIO-ECONOMIC STUDIES AND AGRICULTURAL STUDIES IN IRRIGATION OR MULTIPURPOSE WATER RESOURCE PROJECT DURING LAST FIVE YEARS

| Sl. No. | Name of the Project | Location | Value of Contract | Contract Date and Completion Date | Name and Address of Client | Description of Work Carried Out with emphasis on Related Sector |
|---------|---------------------|----------|-------------------|-----------------------------------|----------------------------|---|
| | | | | | | |
| | | | | | | |

Notes:-

- Satisfactory completion of the contracts must be evidenced by the Client's Certificate.
- Value of Contract shall be given in Nepali/Indian Rupees.

Date:

Signature & Designation of Applicant:

Seal of the Consulting Firm:

DETAILED EXPERIENCE OF THE CONSULTING FIRM

Provide brief description of the project mentioned in Format -4 with narrative description of project, actual service provided by the Consulting Firm & name of the professional staffs involved and function performed by them etc.

Name of the Consulting Firm:

| | | |
|---|---------------------------------|---|
| Project/Assignment Name: | | Country: |
| Project Location within Country: | | Professional Staff provided by Consulting Firm: |
| Name and Address of Client: | | No of Staff: |
| | | No. of Person-Months: |
| Start Date (Month/ Year) | Completion Date (Month/Year) | Approx. Value of Services: |
| Name of Associated Firm(s), if any: | | No. of Person-Months of Professional Staff Provided by Associated Firm(s): |
| Name of Professional Staffs Involved and Functions Performed: | | |
| Narrative Description of Project: | | |
| Description of Actual Services Provided by Consulting Firm: | | |

Signature & Designation of Applicant:

Seal of the Consulting Firm:

EXPERIENCE OF KEY PERSONNEL WITH TEAM COMPOSITION AND TASK ASSIGNMENT

| S. N. | Designation | Name | Qualification Dr. / PG / G* | Total Years of Experience | Name of Firm(s) | Years with Firm | Full Time / Part Time | Task accomplished |
|-------|---|------|--------------------------------|---------------------------------|--------------------|--------------------|--------------------------|-------------------|
| 1 | Irrigation / Water Resources Engineer | | | | a. b. ... | | | |
| 2 | Senior Surveyor | | | | | | | |
| 3 | Soil Scientist | | | | | | | |
| 4 | Agronomist | | | | | | | |
| 5 | Sociologist | | | | | | | |
| 6 | Economist | | | | | | | |

* Dr. - Doctorate Degree; PG – Post Graduate Degree; G – Graduate Degree

Note:

1. CV of the key personnel may be enclosed in support of justification to their Qualification and Experience.
2. Document in support of the personnel on the roll of the Consulting Firm /JV may be enclosed.

Signature & Designation of Applicant:

Seal of the Consulting Firm:

FINANCIAL STRENGTH OF THE CONSULTING FIRM
(In case of JV, to be filled by each Partner of JV)

| FINANCIAL STATUS | |
|--------------------------|--|
| Total asset | |
| Total liabilities | |
| Current liabilities | |
| Current asset | |
| Current credit resources | |

| Description | NFY 065-66 IFY 2009-10 | NFY 066-67 IFY 2010-11 | NFY 067-68 IFY 2011-12 | NFY 068-69 IFY 2012-13 | NFY 069-70 IFY 2013-14 | Average Annual |
|-------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|
| Turn Over | | | | | | |
| Expenditure | | | | | | |
| Net Profit | | | | | | |

(Note:- Supporting Documents shall be submitted for the above)

(Authorized representative of the Firm)

.....

Name:

Address:

Position:

Date:

Seal: