



EXPRESSION OF INTEREST (EOI) CUM PRE QUALIFICATION OF CONSULTANTS

**FOR PROVIDING INNOVATIVE ENGINEERING SOLUTIONS TO
MINIMIZE THE EFFECTS OF SUBMERGENCE IN BACKWATERS
DUE TO RAISING OF HEIGHT OF ALMATTI DAM FROM
CURRENT RL OF 519.600M TO RL 524.256 M AND
PREPARATION OF DPR BY STUDYING VARIOUS
ALTERNATIVES**

EOI No: **WRD KBJNL 01**

Dated: 25/10/2014



**The Managing Director,
Krishna Bhagya Jala Nigam Limited,**

3rd Floor, PWD Annexe Building,

K.R.Circle, Bangalore - 560 001

Email: contactus@kbjnl.com

October 2014

INTERNATIONAL COMPETITIVE BIDDING

EXPRESSION OF INTEREST (EOI) CUM PRE QUALIFICATION OF CONSULTANTS FOR PROVIDING INNOVATIVE ENGINEERING SOLUTIONS TO MINIMIZE THE EFFECTS OF SUBMERGENCE IN BACKWATERS DUE TO RAISING OF HEIGHT OF ALMATTI DAM FROM CURENT RL OF 519.600M TO RL 524.256 M AND PREPARATION OF DPR BY STUDYING VARIOUS ALTERNATIVES

Krishna Bhagya Jala Nigam Limited (KBJNL) wishes to take up the work of preparation of DPR to minimize the effects of submergence due to raising the height of the dam up to 524.256 M by studying various alternatives in the State of Karnataka. Approval has been given to raise the Almatti Dam from the current RL 519.600 m to a height of RL 524.256 m.

The Government of Karnataka is seeking to invite "Expression of Interest" from reputed, financially sound and technically competent bidders (international companies/consultants) or consortium of business entities who have satisfactorily completed works of similar nature, to study the effect of submergence due increase in the height of dam and to provide possible innovative technical solutions to minimise the submergence and to prepare the detailed project report.

KBJNL would be looking for a leading Consulting agency to prepare a Detailed Project Report which would take in to consideration the requirement of the department namely

- Innovative solutions to minimise the Effects due to additional submergence in view of raising the height of the dam
- Measures to address the issue by way of suggesting alternative solutions
- Preparation of DPR for the best alternative as approved by the competent authority.

1. Preamble

Krishna River takes its birth in Mahadev Range of Western Ghats at EL-1338m above MSL in Maharashtra. It enters Karnataka at 304th KM of its course and passes through the state for a length of 480 KM and finally joins the Bay of Bengal near Bapatla in Andhra Pradesh. The basin area is 2.57 lakhs Sq.km and that in Karnataka is 1.13 lakh Sq.km.

This river being an interstate river; the water utilization has to be accounted in accordance with the Krishna Water Disputes Tribunal (KWDT) award of 1976 and 2010.

KWDT-1976 has allocated 734 TMC of water and KWDT-2010 has allocated an additional 177 TMC of water to Karnataka.

Government of Karnataka has allocated 173 TMC out of 734 TMC of water and 130 TMC out of 177 TMC of water to Upper Krishna Project for Irrigation and Power generation.

Government of Karnataka has approved a master plan to utilize 734 TMC of water in Krishna Basin.

Upper Krishna project was originally conceived by the then erstwhile State of Hyderabad. In this project, it was proposed to construct Dam near Narayanpur for providing irrigation to Raichur District. This project could not be materialized due to submersion which was mostly in Bijapur District, a part of Bombay Presidency at that time.

After reorganization of states in November, 1956, the Gulbarga, Raichur and Bijapur Districts came under State of Mysore, now called as Karnataka State. Fresh investigations were conducted to modify the originally conceived Upper Krishna project as a multipurpose project in order to provide irrigation facilities to Gulbarga, Bijapur, Raichur, Koppal and Gadag Districts including generation of Hydel power.

In order to derive maximum benefits as early as possible, it was proposed to execute the project in stages.

In stage I and II of U.K.P, it is planned to utilize 173 TMC of water to irrigate 6,22,023 Ha of land.

The revised estimate of Stage – I of UKP was approved by Planning Commission, CWC, New Delhi vide letter No.2 (10)/891 &CAD dated 24/9/1990. The approved estimate cost is Rs.1214.97 crores at S.R. of 1986-87 to irrigate 4,24,900 Ha by utilizing 119 TMC of water. The works are completed in all respects.

The revised estimate of Stage-II of UKP was approved by Planning Commission, CWC, New Delhi vide letter No.2(10)/99-WR dated 13/12/2000 for Rs.2358.86 crores at S.R. of 1998-99 to irrigate 1,97,120 Ha by utilizing 54 TMC of water. The works are nearing completion.

In the back waters of Almatti reservoir at FRL of EL-519.60 m in Stage I & II of UKP, 48,787 Ha of land is submerged and 136 villages have been rehabilitated and resettled.

In the back waters of Narayanpur reservoir, at FRL of EL 492.252m, 13,206 Ha of land is submerged and 41 villages were rehabilitated and resettled.

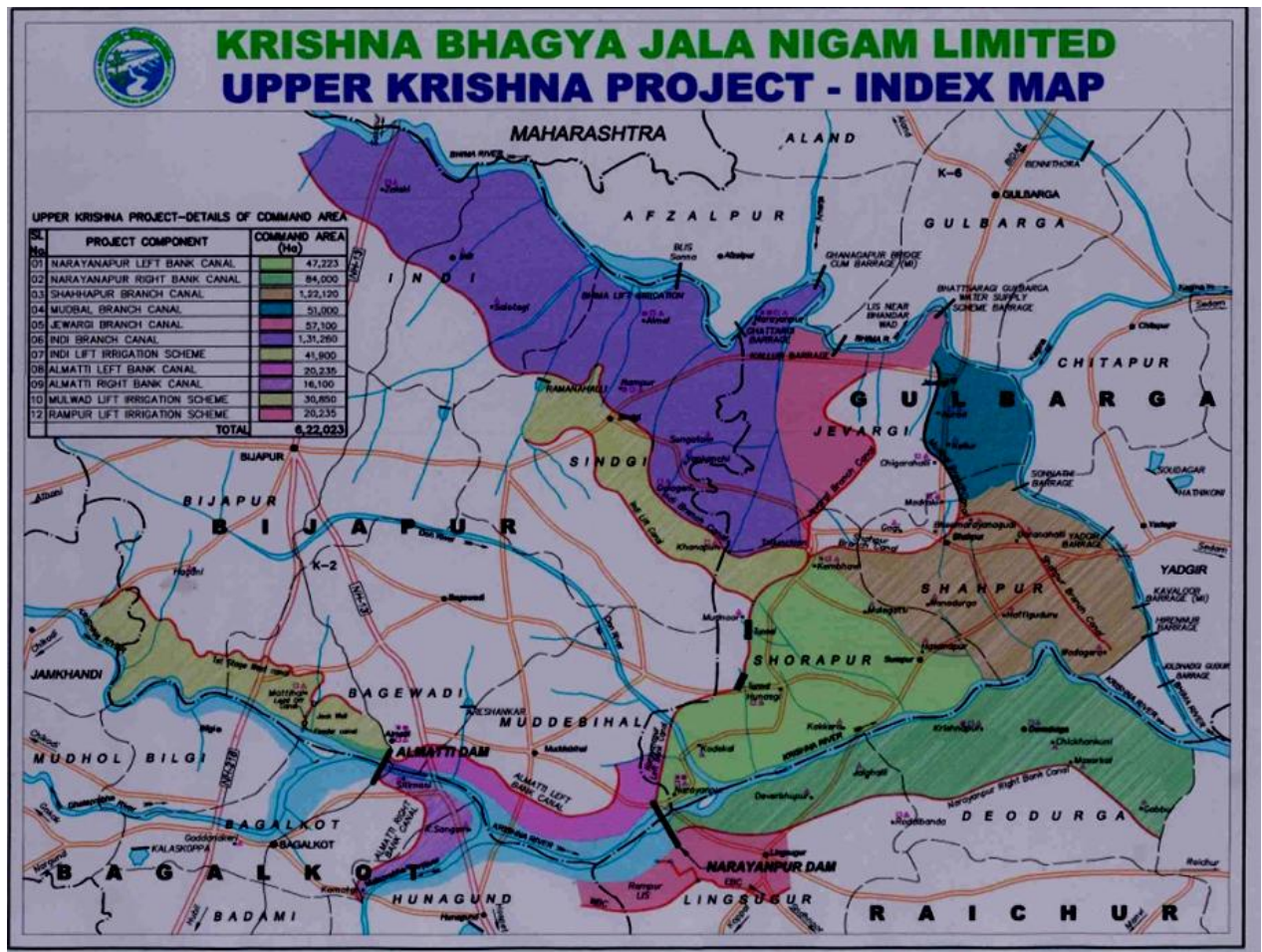
In Stage-III of UKP, it is proposed to irrigate 5,30,475 Ha of land duly utilizing 130 TMC of water. The tentative estimated cost for this work is Rs 32,650.20 Crores as per S.R. of 2011-12. Rehabilitation and Resettlement estimate amount to be included in the Detailed Project Report.

After raising of FRL from EL 519.60m to EL 524.256m of Almatti dam in Stage –III of UKP to store the additional allocation of water i.e. 130 TMC, the additional of 25,955 Ha of land is likely to be submerged with 22 affected villages which are to be rehabilitated and resettled.

2. Problem Definition & Objectives

Mitigating the effects of submergence is the prime concern as it is likely that nearly 25,955 Ha will be submerged along with about 22 villages. The issue of submergence and the subsequent R & R is a major issue to be tackled by the State in the wake of raising the height of the dam up to RL 524.256 M. Hence, KBJNL is looking for the leading Consulting agency who have expertise in providing innovative solutions to minimise the effects of submergence due increase in the height of the dam. The agency is required to study the extent of submergence and effects in terms of Land Acquisition and rehabilitation of submerging villages. The agency shall be providing the alternative solutions available nationally/internationally, along with the techno-economic feasibility studies with justifications. The afflux/backwater analysis has to be carried out for each of the solutions with regional/local issues along the backwater contour.

The agency shall be asked to present the conceptual designs and drawings of alternative innovative solutions to the Technical Committee of KBJNL and the Detailed Project Report (DPR) shall be prepared for the solutions as approved by the competent authority.



3. Scope of Work

The scope of work includes:

- Conduct the backwater survey at various levels of reservoir
- Extent of submergence at FRL using latest technical know-how
- Effects of submergence
- Land Acquisition issues
- Study of R& R Issues
- Techniques to minimise the submergence with reference to Global practices
- Examine various alternative techniques of minimising the submergence & its effects
- Techno-economic feasibility of each of the solutions
- Evaluate cost benefit analysis of the alternatives

- Document best practices – global experiences
- Suggest best alternative(s)
- Deploy best consultants team to carry out studies and implement the work
- Propose a methodology to implement the technological solution using the most appropriate and latest technologies, strictly adhering to the safety conditions and logistical guidelines stipulated by GoI laws/acts.
- Provide a cost estimate with a timeline of activities
- Prepare a Detailed Project Report (DPR) of global standards
- Evaluate project implementation and provide a report

4. Measures which needs to be considered while preparing DPR

On award of the work to the Consultant, has to study the various options for to minimize the effects of submergence due to raising the height of the dam up to 524.256 M which shall include but not limited to the following;

4.1 Preventive measures comprising of

- Comprehensive plans and smart growth
- Capital improvements plan
- Zoning & land development controls
- Flood management
- Storm water management
- Dam safety management
- Open space requirement
- Drainage system maintenance
- Critical facilities assessments
- Geographical Information Systems
- Planning studies

4.2 Property protection measures comprising of

- Land acquisition
- Elevating a building
- Building levees / flood walls etc
- Critical facilities protection

4.3 Public education & awareness comprising of

- Community hazard mitigation plan
- Flood maps information
- Technical assistance
- Education program
- Use of Mass Media

4.4 Natural resources protection measures comprising of

- Wet land protection
- Open space acquisition
- River / stream corridor restoration / protection
- Urban forestry program
- Water resources conservation program

4.5 Structural project measures comprising of

- Flood control reservoirs
- Levees / flood walls
- Diversions
- Ground stabilization

4.6 Other Options: Consultant is free to suggest any other most feasible solution/solutions, and should justify the option in terms of economic viability which will meet the desired objective with least impact on the environment.

5. Pre-Qualifications & Selection of Consultants

5.1 A three-stage procedure will be adopted in evaluating the proposals.

5.2 Eligible firms are invited to express their interest to provide the services. Consultant/firm may associate with another consultant/firm(s) to enhance their qualifications. The EOIs received will be evaluated on the basis of a three stage selection process. The first stage involves invitation to submit the Expression of Interest (EOI). A Committee constituted by the Government will evaluate the technical, management and financial competence of the bidder. The bidder should be ready to make a presentation before the Committee if called upon to do so.

5.3 **In the first stage**, eligibility of the Consultants will be ascertained on the basis of following qualifying requirements (to be submitted as per formats enclosed):

- The Consultant shall be in the field of consultancy services for a minimum Five years
- The firm/consortia must have successfully carried out or implementing two similar works in two or more countries
- Should have an annual turnover of minimum INR 100 Crores or equivalent foreign currency.
- Should be a profit earning company for the preceding three years.
- Should never have been black listed by Government / PSU / CIL / reputed company.
- Joint Ventures are acceptable

Consultants who do not individually fulfill the qualifying requirements indicated above or wish to enhance their qualification and expertise for the Assignment can form a Joint Venture/Consortium with other consultants. However, in no case the Joint Venture/Consortium shall have more than 3 (three) partners.

5.4 A proposal deficient in any of the above mentioned qualifying requirements will not be considered for further evaluation. The following information should be furnished for evaluation of eligibility (as per Proof of Eligibility Forms):

- Brief profile of the Consultant/company showcasing the expertise available with them for undertaking the assignment along with information about their legal status, ownership and organizational structure. (Eligibility Criteria Form 2)
- An abstract showing year wise Total Financial Turnover for the preceding 3 (three) years ending last day of the previous financial year along with the Audited Balance Sheets, Profit & Loss Account and other financial statement for the same period. (Eligibility Criteria Form 3)
- Details of similar assignment(s) undertaken by the Consultant along with the experience certificate(s) from client(s) clearly indicating the scope of the services rendered by the Consultant in support of having completed the assignment(s) or Work Order(s) along with Self Certificate(s) of Completion (Certified by Statutory Auditor) of the assignment(s). (Eligibility Criteria Form 4)
- Key Professionals: Giving Name, Qualifications & Experience in the relevant sectors. (Eligibility Criteria Form 5)

5.5 Pre-Qualification Criteria for the First stage:

The EOI submitted by the consultants shall be evaluated as based on the following Criteria, sub-criteria and point system:

(i) **Financial** : 10 Marks

(ii) **Specific experience of the Consultant relevant to the assignment:**

3 works x 10 each=30

(iii) **Key Professional Staff** : 11 nos x 5 marks= 55

Qualification: Degree & Lower :1,

Post Graduate & Above: 2 Marks

Total yrs of Experience: Less than 15 yrs:1 Mark,

More than or equal to 15 Yrs:2 Marks

Experience in Simillar Works: 1 Mark

(iv) **Regional work experience:** 5 marks for Indian experience

5.6 **In the second stage**, the shortlisted Consultants shall be asked to submit their Technical & Financial proposals with reference to the Terms of References(TOR) and Request for Proposal (RFP)Evaluation of the Technical Proposals of only those consultants, who qualify the eligibility

requirements stated above, will be carried out. Evaluation of Technical proposals will be done on the basis of their responsiveness to the Terms of Reference and by applying the evaluation criteria, sub-criteria as specified in this RFP Document which also involves Technical Presentation by all eligible Consultants to the Evaluation Committee on their understanding of the assignment along with proposed approach & methodology. At this stage, evaluators shall have no access to the Financial Proposals.

5.7 The consultants have to make a presentation before the Employer on a date intimated by the employer. The presentation shall be focused on Technical Approach and Work Plan. The consultants shall also correlate in the presentation its past experience of the relevant project executed by them and experience and skills of the key personnel proposed to be deployed to prove its capability and preparedness to execute work adhering planned technical approach and work plan.

5.8 **In the third stage**, financial proposals of those Consultants who are technically qualified in the second stage evaluations, shall be opened publicly on the date & time to be intimated later after evaluation of Technical Bid.

5.9 Finally, a Consultant will be selected under a transparent bidding process based on Combined Quality Cum Cost Based System (CQCCBS) and as per the procedures described in the RFP document.

5.10 KBJNL reserves the right to reject any or all applications for pre-qualification without assigning any reason.

6. Last Date for submission of EOI proposal

Interested Consultants are hereby requested to submit their EOI along with the relevant documents, on or before **30th November 2014** to the following address:

(Submittals can be through email in soft format or hard copy through post)

The Managing Director,
Krishna Bhagya Jala Nigam Limited,
3rd Floor, PWD Annexe Building,
K.R.Circle, Bangalore - 560 001
Karnatak, India.

Tel : (080) 22277393 / 488

Fax : (080) 22219470

Email : contactus@kbjnl.com

7. More information about KBJNL

You may please visit for more information about KBJNL website:
www.kbjnl.com

8. Contact Person

Consultants may contact for more information/queries:

Prof Aravind Galagali

Director & Member Technical Sub Committee, KBJNL

Office of Krishna Bhagya Jala Nigam Limited,

3rd Floor, PWD Annexe Building,

K.R.Circle, Bangalore - 560 001.

Cell: +919448113737

Email: galagali.aravind@gmail.com

Eligibility Criteria Form 1**Application for Expression of Interest**

A.	Applicant's Details	
Name of Applicant: (Company/Organization/Firm etc.)		
Registered Address:		
Telephone No.:		
Fax:		
Email:		
Website:		
Type of entity:	Public Limited	<input type="checkbox"/>
	Private Limited	<input type="checkbox"/>
	Limited Liability Company	<input type="checkbox"/>
	Proprietary Firm	<input type="checkbox"/>
	Other (please specify)	<input type="checkbox"/>
Name of the Chief Executive:		
Registration with government bodies (enclose copies if applicable)	Registration Certificate	
	Service Tax Registration	
	PAN	
	ESI, PF, ST / VAT	
	Trade License (s)	
	Others	
Please provide company profile		
Provide Company's Organization in Format "FORM-2" along with profile.		

B. Primary Contact Details	
Name:	
Designation:	
Telephone No.:	
Fax:	
Email:	
C. Technical Details/Work Experience	
Number of years your organization has been in business as a Consultant.	
Provide list of similar works executed in the last five years for leading International / National / Government of India / Other State Governments and work currently under execution in Format "FORM-3" along with Certificates of satisfactory completion of work.	
Sub-Contracting:	a. Your organisation is bidding to provide the services required, itself <input type="checkbox"/>
	b. Your organisation is bidding in the role of a Consultant and intends to use third parties to provide some services <input type="checkbox"/>
If your answer is 'b' please indicate in a separate annex (by inserting the relevant company / organization name) indicating services provided by different sub-contractors	
Provide details of current and project commitments	
Is the bidder involved in any current litigation, if so please provide information?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does your company have a documented Health, Safety and Environment policy in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does your company have a documented Quality Control / Assurance Plan? If so, please submit a copy	<input type="checkbox"/> Yes <input type="checkbox"/> No

D. Financial Details	
Provide Company's financial performance in Format "FORM-4" along with copies of Audited Balance Sheets, Profit and Loss Account & Cash Flow Statement for the preceding three financial years along with information	
Provide solvency certificate from the bank indicating the credibility limit in financial terms.	
Working capital based on last three audited financial statement.	
State the banker's name, address	

E.	Key Manpower resources
State the number of Applicant's personnel in the direct hire of the Applicant for the last two years in Format "FORM-5"	

F.	Equipment resources
Please provide details of Plant & Machineries available for the assignment	

PROOF OF ELIGIBILITY FORM-2**CONSULTANT'S ORGANISATION****I. Lead Consultant**

1	Name of Lead Consultant	
2	Address	
3	Legal Status of the Firm	
4	Year of Incorporation	
5	Year of commencement of Business	
6	Experience in consultancy services (indicate year)	
7	Any other relevant information in support of your expertise in undertaking the assignment	

II. Joint Venture/Consortium

1	Name of the Firm	
2	Address	
3	Legal Status of the Firm	
4	Year of Incorporation	
5	Year of commencement of Business	
6	Experience in consultancy services (indicate year)	
7	Any other relevant information in support of your expertise in undertaking the assignment	

In case of Joint Venture/Consortium/Association, consultants should submit a Memorandum of understanding or any other document signed between the Lead Partner and the Consortium partner stating their agreement to take up the assignment jointly.

PROOF OF ELIBILITY FORM-3

SIMILAR WORK EXPERIENCE

Summary of the select projects undertaken during the past 10 (three) years similar to the requirements for the assignment are listed below

Sl. No.	Name of the Project	Name of the Client	Start Date	Completion Date	Value of the Project (in INR)	Brief Description of the Project
1						
2						
3						

PROOF OF ELIGIBILITY FORM-4**FINANCIAL****I. Annual Turnover of the Lead Consultant**

Year	FY 2010-2011	FY 2011-2012	FY 2012-2013
Amount (in Rs.)			
Amount (in foreign currency)			
Profit / Loss (In Crores)			
Net Worth (In Crores)			
Latest Bank Solvency (In Crores)			

II. Turnover from Consultancy Services of the Lead Consultant

Year	FY 2010-2011	FY 2011-2012	FY 2012-2013
Amount (in Rs.)			
Amount (in foreign currency)			
Profit / Loss (In Crores)			
Net Worth (In Crores)			
Latest Bank Solvency (In Crores)			

III. Annual Turnover of the Joint Venture/Consortium Partner

Year	FY 2010-2011	FY 2011-2012	FY 2012-2013
Amount (in Rs.)			
Amount (in foreign currency)			
Profit / Loss (In Crores)			
Net Worth (In Crores)			
Latest Bank Solvency (In Crores)			

IV. Turnover from Consultancy Services of the Joint Venture/Consortium Partner

Year	FY 2010-2011	FY 2011-2012	FY 2012-2013
Amount (in Rs.)			
Amount (in foreign currency)			
Profit / Loss (In Crores)			
Net Worth (In Crores)			
Latest Bank Solvency (In Crores)			

Note:

1. Please attach Audited Balance Sheets, Profit & Loss Account and other financial statement for the above period.
2. Applicants shall also enclose certificate from its Statutory Auditors stating its total revenue from professional fees arising out from consultancy services during each of the past 3 (three) years. In case the applicant does not have a Statutory Auditor, it shall provide the requisite certificate from Chartered Accountant Firm/Chartered Accountant that ordinarily audits the annual account of the party.

PROOF OF ELIGIBILITY FORM-5**KEY PROFESSIONALS**

[Here the consultant shall mention the names of key professionals to be engaged by the consultant to perform the services or any part thereof in the capacity of the proposed position during the execution of the assignment and shall remain to do so until the completion of the assignment]

No.	Designation	Description	Nos.	Qualification	Total Years of Experience	Detail of Experience emphasizing the relevant field
A	International:					
1	River valley development Specialist/ Team Leader	International experience in the relevant field with 20 years' experience	1			
2	Urban Planner with River valley background		1			
3.	Domain Expert		1			
B	National:					
4	Water Institutions Specialist	With 15 years' experience in the relevant field	1			
5	Environmental specialist	With 15 years' experience in the relevant field	1			
6	Agricultural Specialist	With 15 years' experience in the relevant field	1			
7	Hydro Geologist	With 15 years' experience in the relevant field	1			
8	Horticulture expert	With 15 years' experience in the relevant field	1			
9	Structural Design Expert	With 15 years' experience in the relevant field	1			
10	Geotechnical Expert	With 15 years' experience in the relevant field	1			
11	Hydrology, Water Resources Expert	With 15 years' experience in the relevant field	1			
12	Land Acquisition, Valuation, Techno Legal Expert	With 15 years' experience in the relevant field	1			

PROOF OF ELIGIBILITY FORM-6

Covering Letter

To,

The Managing Director,

Krishna Bhagya Jala Nigam Limited,

3rd Floor, PWD Annexe Building,

K.R.Circle, Bangalore - 560 001

Karnatak, India.

Tel : (080) 22277393 / 488

Fax : (080) 22219470

Email : contactus@kbjnl.com

Dear Sir,

Subject: **Expression of Interest to undertake consultancy services for providing innovative engineering solutions to minimise the effects of submergence in backwaters due to raising of height of Almatti Dam from current RL of 519.600 to RL 524.256 M & preparation of DPR..**

Having examined the details given in the EOI notice and EOI details & proforma for the above mentioned consultancy project, we hereby submit the relevant information.

We hereby certify that all statements made and information supplied in the enclosed documents is true and correct.

We have furnished all information and details necessary for EOI and have no further pertinent information to supply.

We also agree that KBJNL, or their authorized representative can approach individual, employers and firms to verify our competence and general reputation.

Name of the Applicant:

Designation:

Signature:

Seal