

**GOVERNMENT OF JHARKHAND
ROAD CONSTRUCTION DEPARTMENT (RCD)**

Subject: APPLICATION FOR EMPANELMENT OF CONSULTANTS.

Road Construction Department (RCD) intends to invite applications for the empanelment of consultants for three years under the following categories.

- CATEGORY – I** Project preparation for all types of highway projects including Bridges/flyovers/grade separators etc.
- CATEGORY-II** Project preparation for all types of bridges/flyovers/ grade separators etc including approaches.
- CATEGORY-III** Bridge Inspection & Rehabilitation
- CATEGORY IV** Geo-technical investigation for highway and bridge projects, high embankments.
- CATEGORY V** Traffic & Transportation Studies.
- CATEGORY VI** Construction supervision of all types of Highway Projects.
- CATEGORY VII** Construction supervision of all types bridges/flyovers/grade separators including approaches.

2. Consulting firms interested in empanelment can have the application format from the office of the Engineer-in-Chief, Road Construction Department, 4th Floor, Jharkhand Mantralaya, Dhurwa, Ranchi, 834004 on payment of **Rs 10000/-(ten thousand)(non-refundable)** in the form of DD of scheduled bank in favour of Executive Engineer, RCD, Field Survey Division, Advance Planning, Ranchi payable at Ranchi. The application format can also be downloaded from the website **www.jharkhand.gov.in** from **14-12-17 to 8-01-18** and the application fee can be deposited along with the submission of application form. The application form without application fee will not be considered.

3. The applicants can apply for more than one category in that case they have to pay **Rs. 10000/- (ten thousand)** for each category separately. The applicants should submit the requisite information for each category separately on or before **8-01-18** upto 1500hrs at the address given below. The applications will be opened on **09-01-18** at 1530 hrs.

Engineer-in-Chief
Road Construction Department,
4th Floor, Jharkhand Mantralaya (Project Bhavan)
Dhurwa, Ranchi, 834004
Ph: 0651-2400747
Fax: 0651-2400747
0651-2400243

**GOVERNMENT OF JHARKHAND
ROAD CONSTRUCTION DEPARTMENT (RCD)**

Tel: 0651-2400747
Fax: 0651-2400747
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E-mail: rcd.secy@jharkhand.gov.in

Jharkhand Mantralaya(Project Bhavan),
Dhurwa , Ranchi , 834004
Dated.

To

Subject: APPLICATION FOR EMPANELMENT OF CONSULTANTS.

Sir,

Road Construction Department (RCD) intends to invite applications for the empanelment of consultants for three years.

- 2) Empanelment of experienced and competent consultants shall be considered for investigation, project preparation and construction supervision for State Highways & other Road Projects for the following major seven categories.

CATEGORY – I Project preparation for all types of highway projects including Bridges/ flyovers/grade separators etc.

CATEGORY-II Project preparation for all types of bridges/flyovers/ grade separators etc including approaches

CATEGORY-III Bridge Inspection & Rehabilitation

CATEGORY -IV Geo-technical investigation for highway and bridge projects, high embankments.

CATEGORY- V Traffic & Transportation Studies.

CATEGORY- VI Construction supervision of all types of Highway Projects.

CATEGORY -VII Construction supervision of all types bridges/flyovers/grade separators etc.

3. **Technical expertise and experience desired from the consultants for various categories are as under.**

3.1 Category – I

The empanelled consultants shall be expected to possess necessary expertise and experience in carrying out feasibility studies, detailed project preparation for new road projects and highway structures as well as widening & strengthening of existing roads. In addition, the consultants are expected to possess expertise and infrastructure for carrying out studies related to traffic and transportation engineering, highway planning and design.

3.2 Category II

Consultants are expected to possess necessary experience in carrying out feasibility studies, detailed project preparation & design of all types of bridge projects/grade separators/ flyovers etc., experience in conceptualizing schemes and in traffic and transportation studies.

3.3 Category III

Consultants are expected to possess necessary expertise, equipments and experience in carrying out inspection and investigation of distressed bridges including non-destructive and partially destructive testing and preparation of repair and rehabilitation plan/estimate for such bridges, flyover and grade separators. Consultants are also expected to possess necessary experience and expertise in supervision of repair & rehabilitation of these types of structures.

3.4 Category- IV

Consultants are expected to possess necessary expertise, equipments and experience in carrying out all types of surface and sub-surface geo-technical exploration according to the guidelines given in section 2400 of Ministry's Specifications for Road and Bridge Works (Fourth Revision). Consultants are expected to possess expertise, facilities and infrastructure for carrying out drilling through rocks, carrying out preliminary exploration by suitable type of sub-surface sounding method, carrying out in situ Vane Shear Test and laboratory test for physical properties, atterberg limits, shear parameters and consolidation properties etc. In addition to this, the consultants are expected to possess expertise, facilities and infrastructure for carrying out investigation for bridge foundations resting on rock by geo-physical methods such as electrical resistivity method, seismic method etc.

3.5 Category-V

Consultants shall be expected to possess necessary expertise and experience in traffic and transportation studies. The personnel should be trained and experienced in all aspects of traffic engineering. This includes collecting and processing traffic data, developing traffic projections, conducting site planning studies, evaluating the impact of new development on an existing roadway network. In addition, the firm may possess the related equipments and infrastructure.

3.6 Category-VI

Consultants shall be expected to possess necessary expertise and experience in construction supervision, construction management, contract management, quality assurance and detailed project preparation including design for highway projects.

3.7 Category-VII

Consultants shall be expected to possess necessary expertise and experience in construction supervision, construction management, contract management, quality assurance and detailed project preparation including design for bridge projects/flyovers/grade separators etc..

4 Foreign firms & Joint Venture/Association of Firms :

4.1 Foreign firms shall be considered for empanelment only when the firm has a representative office in India.

4.2 In case there is a joint venture of two consultant firms (domestic/ foreign), the required information as per Annexure I, II, III , IV & V shall be furnished by each party separately along with joint venture agreement.

4.3 In case of **JV**, the proposal of consultants would be evaluated jointly and the empanelment will be in the joint name. However, in case there is only a proposal of association (domestic/ foreign consultant); **the particulars of the lead firm shall only be evaluated.**

4.4 In case of a joint venture/association, the firm, which has more relevant experience, would be the **lead partner** and the lead partner would be responsible for the project and would provide the team leader.

4.5 In case of a joint venture the minor partner must have done at least one project conforming to the relevant category for which the empanelment is intended else the JV would be disqualified.

5 The applications will be evaluated on the basis of the following broad Criteria

Sl no	Item	Maximum Marks						
		Cat I	Cat II	Cat III	Cat IV	Cat V	Cat VI	Cat VII
1	Structure and organisation of the Firm	100	100	100	100	100	100	100
2	Financial status	100	100	100	100	100	100	100
3	Firm's relevant experience	250	250	250	250	350	250	250
4	Qualification and Experience of Technical Personnel	450	450	350	300	350	450	450
5	Office/ Field /Laboratory equipment facility	100	100	200	250	100	100	100
	Total	1000	1000	1000	1000	1000	1000	1000
	Qualifying marks	600	600	600	600	600	600	600

In addition to this, the firms should also score minimum 50% marks in each of the above mentioned categories, otherwise the firm shall not be considered for empanelment

6. The firm shall furnish its relevant experience strictly as per format given at Annexure III. The firm must supplement the experience claimed by furnishing the copies of certificates from client, clearly indicating the actual service provided by the firm for that project.
7. The firm shall furnish the Curriculum Vitae of the Technical personnel as per format given at Annexure II. The CVs must be signed by Technical personnel and counter-signed by authorized representative in blue ink on each and every page and should not be older than three months from the date of submission of application. Photograph of the Technical personnel shall be affixed on their respective CV. The contact address with telephone / mobile number, e-mail ID of the Technical personnel should also be furnished. The CVs must indicate the actual service provided by the Technical personnel in detail. The retainer Technical personnel if any shall specifically mention the names of other firms also in which he is associated as a retainer. It may be noted that such Technical personnel may be associated as a retainer for a maximum number of 3 firms including the instant firm. A retainer will get only 60 % credit of that of a full time expert.
8. It is suggested that the firm should fill up Annexure –I, vis-à-vis the supporting details vide Annexure II, III , IV & V and any other information with due care so as to avoid any ambiguity
9. In case spaces available in the Annexure- I, II , III , IV & V are limited to accommodate all the information, separate sheets may be used for the purpose so that relevant information submitted are sufficient, neat and legible.
10. The applications not complying with the above mentioned stipulations and found to be deficient in any respect shall be summarily rejected.
11. Consulting firms should note that only authenticated information should be provided in the prescribed format. Information provided by the consulting firms may be verified and if any of the information provided by the consultant is found incorrect / false, then it may lead to rejection of a firm's proposal summarily at any stage even after empanelment.
12. The applicants can apply for more than one category in which case they will have to pay **Rs. 10000/- (ten thousand)** for each category separately. It may be mentioned that the firm shall be empanelled under a specific category/ categories and for each category separate application shall be submitted along with a soft copy of the same. The application should be properly bound, indexed and page numbered and strictly in sequence given in the format at Annexure I. Intending consultants, should submit their application for empanelment to the Engineer-in-Chief ,Road Construction Department, 4th Floor, Jharkhand

Mantralaya, Dhurwa , Ranchi , 834004 on or before 8-01-18 upto 1500hrs. The applications will be opened on 9-01-18 at 1530 hrs .

Each page of the Application Form should be stamped and signed by authorized signatory. The authorized signatory must sign all cuttings and corrections. A Certificate of authorization or power of attorney, in original along with a photocopy thereof, by the applicant firm, company or other corporate body, as the case may be, must be enclosed with the Application Form. No Application Form will be considered unless all the required documents are furnished and properly attested wherever required. RCD may obtain clarification wherever required

The Application Form must be enclosed in a sealed envelope which must be superscribed with “Application for Empanelment of Consultants”

13. RCD reserves the right to reject any or all applications without assigning any reason. After evaluation, a panel of consultants under the seven categories mentioned above will be formed depending on the capacity and experience of the consultants for purpose of obtaining offers for particular projects.
14. Notwithstanding the formation of these panels, RCD may go in for separate empanelment for specific assignments, if it so decides.
15. Arbitration Clause: In the eventuality of any dispute, the matter shall be referred by any of the parties to Principal Secretary/ Secretary to , RCD, Govt. of Jharkhand for arbitration and his / her decision shall be binding on the parties.
16. Jurisdiction: All disputes will be settled within the jurisdiction of High court of Judicature at Ranchi .
17. Empanelment of a party does not ensure award of contract for any work / job by the Road Construction Department, Government of Jharkhand or by any other Department, Authority, Board or Corporation of Government of Jharkhand.
18. Any authority of the Department, who wishes to obtain such services of a consultant would invite financial bids from the empanelled parties. The empanelled party with the lowest financial bid/quote would thereafter be awarded work on the terms and conditions prescribed by the Department.
Other Departments, Authority , Boards & PSUs of the State Government may also adopt panel approved by this Department.

Yours faithfully,

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Engineer-in-Chief
Road Construction Department,

Encl: Annexure I, II, III & IV.

ANNEXURE-1

APPLICATION PROFORMA FOR EMPANELMENT OF CONSULTANTS	
	General Informations
	(i) Name and address of the consultant/consulting firm
	(ii) Whether Pvt. Ltd. Company/JV/Public Co./Others (in case of J.V., indicate name of lead partner and furnish copy of agreement).
	(iii) Name of the authorised contact person /representative duly certified by the head of the consulting firm.
	(iv) Profile of the firm (Please elaborate field of activities)
	(v) In case of Foreign firm, address of representative office in India with documentary proof from the head office abroad)
	(vi) In case of foreign firm, certificate for accepting payment in Indian currency
	(vii) In case of association, indicate the name of lead firm and furnish letter of association.
1	STRUCTURE & ORGANISATION OF FIRM
A	Date, month and year of incorporation of Firm
	NOTE: (i) Furnish a copy of incorporation/registration from appropriate authority. (ii) Firm incorporated/registered after 31.03.2015 shall not be considered
B	No. of full time technical personnel who are in the payroll of the firm for at least one year as on 30.04.2016 with following qualifications and experience:
	(i) Masters degree (structure) with minimum 5 years of experience
	(ii) Masters degree (Traffic & Transportation) with minimum 5 years of experience
	(iii) Masters degree in any discipline of Civil Engineering with minimum 5 years of experience
	(iv) Degree(Civil) with minimum 10 years of experience
	(v) Degree (Civil) with minimum 5 years of experience
	NOTE: The detailed information regarding technical personnel mentioned above may be furnished as per Annexure-IV.
2	FINANCIAL STATUS:
	Average Annual Turnover from consultancy of last three years (Rs. In lakhs .(as per Annexure V) Audited balance sheets must demonstrate the soundness of the consultants/Cosulting Firms financial position, showing positive net worth and profitability in last three financial years.
	<i>Note</i> : Enclose audited accounts for the last three years in support. 2013-14,2014-15, 2016-17(provisional)
3	FIRM'S RELEVANT EXPERIENCE:
	Note: Please mention number of projects done by the firm against each of sub-item with documentary proof from client. For each

	project one sheet of Annexure-III should be filled up properly giving as much as details as possible.	
Category I : Highway Projects		
	A(i) Experience in Feasibility Study for widening to two lane for a length > 20 km. A(ii) Experience in preparation of DPR of widening to two lane for a length >20 km	
	B(i) Experience in FS of two lane/four lane new alignment or widening to 4 lane/Expressway in a length more than 20 kms.	
	B(ii) Experience in preparation of DPR of two lane/four lane new alignment or widening to 4 lane/Expressway in a length more than 20 kms.	
	C. Experience in Survey & Investigation and detailed design of bridge projects.	
	D. Traffic surveys, Origin-Destination (OD) Survey, Design of Road Junctions/Traffic Circulation Studies etc.	
	Note: In Annexure -III, narrative description of project must include No. of lane, length of project, whether widening or new alignment etc. Under the head actual Service provided by the firm, the firm must clearly mention whether the firm has done only topography survey, traffic survey, feasibility study or complete project preparation.	
Category-II : Bridge Projects		
	(i) Experience in feasibility study of	
	(a) bridges with overall length greater than 60m with at least one span length greater than 40m	
	(b) bridges with overall length greater than 60m with any span length (other than bridges mentioned under sub item (a) above).	
	(ii) Experience in preparation of DPR of	
	(a) bridges with overall length greater than 60m and with at least one span greater than 40m	
	(b) bridges with overall length greater than 60m with any span length (other than bridges mentioned under sub item (a) above).	
	(iii) Experience in Design review/Proof checking of	
	(a) bridges with overall length greater than 60m and with at least one span greater than 40m	
	(b) Bridges with overall length greater than 60 m with any span length (other than bridges mentioned under sub item (a) above).	
	Note: In Annexure -III, narrative description of project must include total length of bridge, individual span length, no. of lane (2 lane, 4 lane etc.), whether widening or new alignment etc. Under the head service provided by the firm, the firm must clearly mention whether the firm has done only feasibility study, design review/proof checking or complete project preparation.	
Category-III Bridge Inspection & Rehabilitation		
	(i) Experience in carrying out investigation and testing of major/minor	

	bridges for rehabilitation	
	(ii) Experience in preparation of rehabilitation plan	
	(iii) Supervision of rehabilitation work	
Category-IV: Geo-technical investigation for highway and bridge projects, high embankment		
	(i) Experience in carrying out subsoil investigation (Exploration, sampling, testing, recording, reporting and preservation of test samples) for (a) Deep foundation of any Civil Engg. Projects (b) Shallow foundations	
	(ii) Experience in carrying out subsoil investigation for high embankment including stability analysis, determination of CBR etc. and sampling and testing of borrow pit material as per IRC Codes	
	(iii) Experience in road pavement (i.e. condition survey of existing pavements, determination of CBR etc.)	
	(iv) Experience in Geophysical methods (a) Electrical resistivity (b) Seismic method	
	(iv) Experience in Laboratory Testing	
Category V: Traffic Survey / T&T Studies		
	(i) Experience of conducting survey for road projects for 2 lane widening or a new alignment of length > 20 kms. or minor bridge projects	
	(ii) Experience in Traffic Engineering/Traffic Studies for projects of widening to 2/4 lane/expressway or a 2/4 lane new alignment of length > 20 kms.	
	(iii) Experience in carrying out traffic & transportation planning studies such as economic studies, cost benefit analysis, road users cost studies, economic feasibility studies etc.	
	(iv) Experience in carrying out traffic census	
	(v) Any additional experience in the field of traffic studies not mentioned above.	
Category VI: Construction supervision of highway projects		
	A(i) Experience in DPR of widening to two lane in length>20 km. Length	
	A(ii) Experience in construction supervision of widening to two lane in a length >20km. Length	
	B(i) Experience in DPR of two lane/four lane new alignment or widening to 4 lane/Expressway in a length more than 20kms.	
	B(ii) Experience in construction supervision of two lane/four lane new alignment or widening to 4 lane/Expressway in a length more than 20kms.	
Category VII: Construction supervision of bridge projects		
	A(i) Experience in DPR of (a) bridges with overall length greater than 60m and with at least one span greater than 40m.	

	(b) bridges with overall length greater than 60m with any span length other than bridges mentioned under sub item (a) above	
	B(ii) Experience in construction supervision of	
	(a) bridges with overall length greater than 60m and with at least one span greater than 40m.	
	(b) bridges with overall length greater than 60m with any span length other than bridges mentioned under sub item (a) above.	
	Note: In Annexure -III, narrative description of project must include No. of lane, length of project, length of the bridges, individual span length, whether widening or new alignment etc. Under the head Service provided by the firm, the firm must clearly mention whether the firm has done only topography survey, traffic survey, feasibility study, design review/proof checking of design of bridges or complete project preparation.	
4	QUALIFICATIONS AND EXPERIENCE OF TECHNICAL PERSONNEL	
	Note: 1. Minimum academic qualifications shall be degree in Civil Engineering and minimum experience in Highway Engineering shall be five years. The CVs of technical personnel not fulfilling these criteria shall not be evaluated. 2. A retainer will get only 60% credit of that of a full time expert.	
4.1	List of technical personnel	
KP1	Highway Engineer	
KP2	Pavement Specialist	
KP3	Bridge/Structural Engineer	
KP4	Sr. Traffic Engineer	
KP5	Sr. Survey Engineer	
KP6	Environmental-cum-Resettlement Specialist	
KP7	Foundation Engineer/Geotechnical Engineer	
KP8	Transport Planner	
KP9	CAD Specialist	
KP10	Geologist	
KP11	Contract Manager	
KP12	Bridge Rehabilitation Specialist	
KP13	Material Engineer-cum-Quality Control Engineer	
4.2	Essential Technical Personnel required for various categories are as follows:	
	(i) Category I: KP1 to KP9 – One No. each	
	(ii) Category II: KP3 – 2 Nos. & KP2, KP5, KP7, KP9 – One No. each.	
	(iii) Category III: KP3, KP7, KP12 & KP13 – One No. each.	
	(iv) Category IV: KP7 – Two Nos. & KP10 – One No.	
	(v) Category V: KP 4, KP 5, KP 8 & KP 9- One No each.	
	(vi) Category VI: KP1, KP2, KP3, KP5, KP6, KP7, KP9, KP11 & KP13- One No. each.	
	(vii) Category VII: KP3, KP5, KP7, KP9, KP10, KP11, KP12, KP13- One No. each.	
4.3	Experience and qualifications required for Technical Personnel.	

KP1	Highway Engineer	
A.	Academic Qualification	
	Degree in Civil Engineering	
	Masters degree in Highway/Transportation Engineering	
B.	Profession Related Experience	
B1	No. of years of Professional Experience in Highway Engineering	___ Years
B2	Experience in FS and project preparation of widening to 4- lane/ expressway or 4-lane new alignment of length >20 kms	___ Projects
B3	Experience in FS and DPR of widening to 2- lane new alignment of length > 20 kms.	___ Projects
B4	Experience in proof checking / Peer review of DPR	___ Projects
B5	Experience in construction supervision of widening to 4 lane/expressways or new alignment of length > 20 kms.	___ Projects
B6	Experience in construction supervision of widening to 2 lane or 2 lane new alignment of length >20 kms.	___ Projects
B7	Experience as Independent Engineer for BOT/ PPP Projects	___ Projects
KP-2	Pavement Specialist	
A	Academic Qualifications	
	Degree in Civil Engineering	
	Masters degree in other Civil Engg. Disciplines	
	Masters degree in Highway/Geo-technical/Foundation Engineering	
B	Profession Related Experience	
B1	No. of years of Professional Experience in Highway Engineering	___ Years
B2	Experience in pavement design or construction supervision of widening to 4 lane/expressways or 4 lane new alignment of length. 20 Kms.	___ Projects
B3	Experience in proof checking for widening to 4 lane/expressways or 4 lane new alignment of length. 20 Kms. As well as in widening to 2 lane or 2 lane new alignment of length > 20 kms.	___ Projects
B4	Experience in pavement design or construction supervision of widening to 2 lanes or 2 lane new alignment of length > 20 kms.	___ Projects
B5	Experience in sub-soil investigation (sampling, testing, analysis) & quality control for road & bridge projects.	___ Projects
B6	Experience as Independent Engineer for BOT Projects	___ Projects
KP-3	Bridge Engineer/Structural Engineer	
A	Academic Qualification	
	Degree in Civil Engg.	
	Masters degree in Structural/Bridge Engineering	
B.	Profession Related Experience	
B1	No. of years of Professional Experience in Highway & Bridge Engineering	___ Years
B2	Experience in design of major bridges	___ Projects
B3	Experience in design of minor bridges	___ Projects
B4	Experience in construction supervision of bridges with individual span	___ Projects

	length >40m	
B5	Experience in construction supervision of bridges with individual span length <40m	___ Projects
B6	Experience in Proof Checking for major bridges	___ Projects
B7	Experience in Proof checking for minor bridges	___ Projects
B8	Experience as Independent Engineer for BOT Projects/PPP	___ Projects
KP-4	Sr. Traffic Engineer	
A	Academic Qualification	
	Degree in Civil Engineering	
	Masters degree in other Civil Engg. Disciplines	
	Masters degree in Traffic & Transportation Engg.	
B.	Profession Related Experience	
B1	No. of years of Professional Experience in Highway/Traffic & Transportation Engineering.	___ Years
B2	Experience in similar capacity in Traffic Engineering/Traffic Studies for projects of widening to 2/4 lane/expressway or a 2/ 4 lane new alignment of length > 20 kms.	___ Projects
B3	Experience in carrying out traffic & transportation planning studies such as economic studies, cost benefit analysis, road users cost studies, economic feasibility studies etc.	___ Projects
B4	Any other study on Traffic & Transportation Engineering not cover above (pl. elaborate).	___ Projects
KP-5	Senior Survey Engineer	
A	Academic Qualifications	
	Degree in Civil Engineering	
	Masters degree in Civil Engg./Advanced Surveying	
B	Profession Related Experience	
B1	No. of years of Professional Experience in Highway Engineering	___ Years
B2	Experience of conducting survey for road projects for widening to 4-lane/expressways or a 4- lane new alignment of length > 20 kms. Or bridge projects with individual span > 40 m	___ Projects
B3	Experience of conducting survey for road projects for 2 lane widening or a new alignment of length > 20 kms. Or minor bridge projects	___ Projects
KP-6	Environmental-cum-Resettlement Specialist	
A	Academic Qualification	
	Post Graduation in Social Sciences/related Sciences	
	Degree in Civil/Environmental Engg.	
	Masters degree in Environmental Engg.	
B.	Profession Related Experience	
B1	No. of years of Professional Experience in Environmental appraisal of Civil Engg. Projects	___ Years
B2	Experience in any environmental appraisal of Highway/Bridge Projects	___ Projects
B3	Experience in conducting Environmental Impact Studies for projects of road/bridge projects for widening to 2/4- lane/expressways or a 2/4- lane new alignment of length >20 kms.	___ Projects

KP-7	Foundation Engineer/Geo-technical Engineer	
A	Academic Qualification	
	Degree in Civil Engg.	
	Masters degree in Foundation/Soil Engineering/Geo-technical Engineering	
B.	Profession Related Experience	
B1	No. of years of Professional Experience in Highway Engineering	___ Years
B2	Experience in geo-technical investigation of high embankments/design of deep foundation for major bridges	___ Projects
B3	Experience in geo-technical survey/sub-soil investigation (sampling, field testing, lab testing etc.) for deep foundation for any Civil Engg. Projects.	___ Projects
B4	Experience in construction/construction supervision of deep foundation for major bridges	___ Projects
B5	Experience in construction/construction supervision of foundations for bridges with innovative design.	___ Projects
KP-8	Transport Planner	
A	Academic Qualification	
	Post Graduation in Operation Research/Transportation/Management without specialization in Transport Planning/Transport Economics	
	Degree in Civil Engg/Architecture	
	Masters degree in Traffic/Transportation Engg. Or Master in Transport Planning or Degree in Civil Engg. With PG in Traffic & Transport Planning/Transport Economics , Post Graduation in Operation Research/Transportation/Management with specialization in Transport Planning/Transport Economics.	
B	Profession Related experience	
B1	No. of years of professional related experience in Transport Engineering/Planning	___ Years
B2	Comprehensive Traffic & Transportation Studies & Transport/Highway Planning including Route Location & Evaluation of various alternatives in Metropolitan/Urban areas, Multi-Model Transport Planning Studies/Corridor Analysis & Rout4 Selection Impact Analysis Study/Parking Analysis & Policy Formation Study etc.	___ Projects
B3	Any other Study on Traffic & Transportation Engineering & Highways Planning/Engineering (Pl. elaborate)	___ Projects
KP-9	CAD Specialist	
A	Academic Qualification	
	Any relevant qualification in Science	
	Degree in Civil Engineering	
	MCA/Degree in Civil Engg. With post graduation in Computer Aided Design/Degree in Computer Engg.	
	Masters in Computer Engg	
B	Profession related experience	
B1	No. of years of Professional Experience in Engineering	___ Years
B2	Experience in Highway/Transport related software development, its design & drafting.	___ Projects

B3	Experience in Highway projects (2/4 lane) of length more than 20 kms or bridge projects having individual span length > 25m	___ Projects
KP-10	Geologist	
A	Academic Qualifications	
	Degree in Geology	
	Masters degree in Geology	
B	Profession Related Experience	
B1	No. of years of Professional Experience as a Geologist in any Civil Engg. Projects.	___ Years
B2	Experience in Geological mapping of sub surface for any Civil Engineering project	___ Projects
B3	Experience in other geological work (Pl. furnish details)	___ Projects
KP-11	Contract Manager	
A	Academic Qualifications	
	Degree in Civil Engineering	
	Degree in Civil Engg. With Diploma in Management (Finance)	
	Masters degree. in Civil Engg. Or Construction Management Or Degree in Civil Engg. With MBA	
B	Profession related Experience	
B1	No. of years of Professional Experience in Highway Engineering	___ Years
B2	Experience of contract management of road projects for widening to 4-lane/expressways or a 4-lane new alignment of length > 20 kms. Or bridge projects with individual span > 40 m	___ Projects
B3	Experience in contract management of road projects for widening to 2 lane or a 2 lane new alignment of length > 20 kms. / minor bridge works	___ Projects
KP-12	Bridge rehabilitation Specialist	
A	Academic Qualifications	
	Degree in Civil Engineering	
	Masters degree in Bridge Engineering/Structural Engineering	
B	Profession related Experience	
B1	No. of years of Professional Experience in Bridge Engineering	___ Years
B2	Experience in inspection, preparation of plan for rehabilitation of prestressed bridges/composite bridges/RCC bridges.	___ Projects
B3	Experience in construction/construction supervision of rehabilitation/strengthening work of prestressed bridges/composite bridges/RCC bridges.	___ Projects
KP-13	Material Engineer / Quality Control Engineer	
A	Academic Qualification	
	Degree in Civil Engg.	
	Masters degree in Soil mechanics/Geo-technical Engineering	
B	Profession Related Experience	
B1	No. of years of Professional Experience in Highway Engineering.	___ Years
B2	Experience in material testing/ quality control of road projects for widening to 4 lane/expressways or a 4 lane new alignment of length > 20	___ Projects

	kms or bridge projects with individual span > 40m	
B3	Experience in material testing/ quality control of road projects for widening to 2 lane or new 2 lane alignment of length > 20 kms or minor bridge projects.	___ Projects
B4	Experience in sub-soil investigation (sampling, testing, analysis) & quality control for road & bridge projects.	___ Projects
5	FIELD / LABORATORY EQUIPMENT (Please state availability of the equipment mentioned below).	
(a)	In-house Computer Hardware/Software facility (applicable for all categories).	
	i) Having at least one Pentium and printer/plotter facility	
	ii) CAD/ Mx, INROADS, STAAD III or equivalent software for Highways & Bridge Designs (mention name & application of the software available with the firm).	
(b)	Survey Equipments (applicable for all categories)	
	i) Total Station or Distomat, Theodilite and Auto Level	
	ii) Plain Table Assembly	
	iii) Other Survey Equipments	
(c)	Soil/Material Testing Equipments : (applicable for categories, I, II, IV, VI,VII)	
	Expertise/facilities/infrastructure for carrying out :	
	(i) Auger/shell/percussion/wash/rotary boring	
	(ii) Drilling through rocks for a depth upto 3 meters for establishing the continuity of rock strata	
	(iii) Field/Lab. C.B.R. Test assembly	
	(iv) Static cone penetration, dynamic cone penetration	
	(v) Vane shear test, standard penetration test	
	(vi) Classification test and density test of soil sample	
	(vii) Triaxial (UU, CU) test, box shear test	
	(viii) Consolidation test	
	(ix) Standard and modified proctor test as per IS: 2720	
	(x) Permeability Test	
	(xi) Geo-textile testing facilities	
(d)	Additional facilities required for category –III	
	(i) Core cutter	
	(ii) Rebound hammer	
	(iii) Ultrasonic pulse velocity measurement device	
	(iv) Corrosion meter	
	(v) Cover meter	
(e)	Additional facilities required for category-IV	
	(i) Electrical resistivity method and seismic method for bridge foundation resting on rock	
	(ii) Visual identification of rock course fore texture, structural composition, colour and grain size, specific gravity, porosity, moisture contest and consolidation test for cohesive soil.	
	(iii) Drilling through rock to take out rock core of sufficient length for testing.	
	(iv) In-site tests on rocks as per IS 7292, IS 7317, IS 7746	

(f)	Additional facilities required for category-V	
	(i) Automatic traffic count & classifiers (ATCC)	
	(ii) Bridge weigh in Motion (WIM)	
	(iii) Road Information System(RIS), Geographical Information System(GIS) software.	
	(iv) Intelligent Transport System (ITS) equipment	
(g)	Additional facilities required for category-VI	
	(i) Benkelman beam	
	(ii) Rough meter or any other suitable equipment	
(h)	Additional facilities required for category-VII	
	(i) Benkelman beam	
	(ii) Rough meter or any other suitable equipment	

ANNEXURE-II

BIODATA FORMAT TO BE SUBMITTED WITH PROPOSAL

Photograph

1. Proposed position :
2. Name :
3. Contact address with
Tel. No. & e-mail ID :
4. Date of birth :
5. Nationality :
6. Educational qualification:
7. Other training :
8. Language & degree or proficiency
9. Membership of professional societies:
10. Countries of work experience
11. Name of the firm where working
(indicate whether full time/ part time employee or retainer)
12. Years with the firm :
13. Employment record : from to
Name of the employer :
Position held :
Description of duties :
- 14 Overall Professional Experience in Highway /Traffic & Transportation/ Bridge
Engineering or in related field. :
15. Related Work Experience (in years) :
16. Details of the Related Work Experience (During last 5 years only)

Item	Sr. No	Brief Description of the Project/ Study	Name of the Client	Cost of Consultancy Work (Rs. in lakhs)	Period of completion		Description of the actual services provided by the key person
					Date of Start	Date of completion	
I PROJECTS/ STUDIES COMPLETED	1 2 -						
II PROJECTS/ STUDIES IN HAND	1 2 --						

NOTE: The CVs must be signed by key personnel and counter-signed by authorised representative in ink on each and every page and should not be older than three months from the date of submission of application. Photograph of the key personnel shall be affixed on their respective CV. The contact address with telephone & mobile number, e-

mail ID of the key personnel must be furnished. Unsigned CVs or CVs with incomplete information shall not be evaluated.

ANNEXURE-III

RELEVANT SERVICES CARRIED OUT BY THE FIRM
WHICH ILLUSTRATES THEIR BEST QUALIFICATIONS DURING LAST 5 YEARS**

Project Name		Country
Project location within country		Professional staff provided: (a) No. of staff (b) No. of man-months
Name and address of client:		
Start date (month/year)	Completion date (month/year)	Approx. value of CONSULTANCY services:(in Rs lakhs)
Whether project was done alone or as a JV or in association with other firm/ firms.		
Name of Lead partner in case of JV/association:		No. of man-months of professional staff provided by associated firm (s)
Name of Senior staff involved and functions performed : (Functions performed by the associated firm (s) to be given separately)		
Narrative Description of Project:		
Detail description of Actual Services Provided by the firm under different categories: (Please select from the following)		

<p>(i) For category I</p> <p>Feasibility Study</p> <ul style="list-style-type: none"> • Road/Bridge Inventory • Surveys: Traffic Surveys, road condition surveys, topographic surveys, soil surveys, hydrological surveys etc. • Pavement Evaluation • Condition assessment of existing bridges • Preliminary Design Road • Preliminary Design of Bridges & Bridge components ('x' no. of major/minor bridges) • Rough Cost Estimate • Economic Evaluation • Feasibility Report • Add any other relevant item, if any 	<p>Project Preparation</p> <ul style="list-style-type: none"> • Ground Surveys & Investigation • Material Surveys • Geo-tech Investigation for Bridges & High Embankments • Environmental Analysis, Impact assessment formulates policies, mitigation measure, R & R. • Preparation of Designs for Roads (pavement/geometric design) • Preparation of Designs for Bridges for (old & new, 'x' no. of Major/Minor Bridges) and bridge components. • Final Project Report & Final Drawings • Tender Documents(<u>inclusive of those on PPP basis</u>): Pre-qualification documents & Tender Evaluation <p>Add any other relevant item, if any</p>
<p>(ii) For category II</p> <p>Feasibility study:</p> <ul style="list-style-type: none"> • Bridge Inventory • Surveys: Traffic survey, topographic survey, soil survey, hydrological survey etc. • Condition assessment of existing bridges, flyover and grade separator • Preliminary design of bridges, flyovers and grade separators. • Preparation of rough cost estimate • Economic evaluation • Feasibility report. <p>Add any other relevant item, if any</p>	<p>Project preparation:</p> <ul style="list-style-type: none"> • Material survey • Environmental impact studies • Geo-technical investigation for bridge and high embankment • Detailed structural design of bridges (old and new) • Preparation of project report and drawing • Preparation of tender documents(<u>inclusive of those on PPP basis</u>), construction specification etc. <p>Add any other relevant item, if any</p> <ul style="list-style-type: none"> • <u>Design review / proof checking of bridges</u>

<p>(iii) For category III</p> <p>Feasibility study:</p> <ul style="list-style-type: none"> • Condition survey and assessment of rehabilitation/repair required for existing bridges and bridge components through detailed inspection, investigation and testing. • Formation of preliminary rehabilitation plan • Preparation of rough cost estimate • Economic evaluation • Feasibility report. <p>Add any other relevant item, if any</p>	<p>Project preparation:</p> <ul style="list-style-type: none"> • Preparation of project and drawing for rehabilitation of bridges • Preparation of tender document, specification and quality assurance plan and maintenance manual • Load testing • Instrumentation <p>Add any other relevant item, if any</p>
<p>Note :- Consultants entrusted with the job of repair and rehabilitation of bridges will also be responsible for supervision of the work of repair and rehabilitation and he will also suggest a suitable team of experts for the purpose.</p>	
<p>(iv) For category IV</p> <ul style="list-style-type: none"> • Ground Surveys & Investigation • Material Surveys • Geo-tech Investigation for Bridges • Geo-tech investigation for high embankments • Preparation of designs for road pavement • Preliminary investigation for bridge foundations resting on rock using geophysical methods • Investigations for bridge foundations resting on rock by drilling through rocks <p>Add any other relevant item, if any</p>	<p>(v) For category V</p> <p>Project Preparation</p> <ul style="list-style-type: none"> • Traffic Survey, Analysis and Projection. • Various methods employed for traffic survey. • Condition survey. • Use of ATCC/WIM. <p>Add any other relevant item, if any</p>

<p>(vi) For category VI Project Preparation</p> <ul style="list-style-type: none"> · Ground Surveys & Investigation · Material Surveys · Geo-tech Investigation for Bridges & High Embankments · Environmental Analysis, Impact assessment formulates policies, mitigation measure, R & R · Preparation of Designs for Roads (pavement/geometric design) · Final Project Report & Final Drawings · Tender Documents(<u>inclusive of those on PPP basis</u>): Pre-qualification documents & Tender Evaluation <p>Add any other relevant item, if any</p>	<p>Construction Supervision</p> <ul style="list-style-type: none"> • Design review • Contract Management • Quality Control <p>Add any other relevant item, if any</p>
<p>(vii) For category VII Project Preparation</p> <ul style="list-style-type: none"> · Ground Surveys & Investigation · Material Surveys · Geo-tech Investigation for Bridges & High Embankments · Environmental Analysis, Impact assessment formulates policies, mitigation measure, R & R · Preparation of Designs for Bridges for (old & new, 'x' no. of Major/Minor Bridges) and bridge components. · Final Project Report & Final Drawings · Tender Documents(<u>inclusive of those on PPP basis</u>): Pre-qualification documents & Tender Evaluation <p>Add any other relevant item, if any</p>	<p>Construction Supervision</p> <ul style="list-style-type: none"> • Design review • Contract Management • Quality Control <p>Add any other relevant item, if any</p>

** For each project done by the firm, separate sheet of Annexure – III shall be filled up and accompanied by documentary proof from client.

Annexure – IV

**DETAILED INFORMATION IN RESPECT OF TECHNICAL PERSONNEL
AVAILABLE WITH THE FIRM**

Sl.No.	Name	Academic Qualification Degree(Civil) / Masters*	Year of passing	No of years of experience in the field of Highway/Bridge Engineering	Signature of respective technical personnel

Signature of the Authorised signatory of the firm

- In case of Masters, please mention the discipline like Masters (Structure), Masters (Traffic & Transport) etc.

Annexure- V

Summary of Financial Performance

(A)

Year	Annual Turnover in Indian Rupees or equivalent to Indian Rupees (In Rs. Lakhs)	Revenue from Consultancy Assignments(in Rs. Lakhs)	% share of Revenue from Consultancy Assignments
1	2	3	4
2014-15			
2015-16			
2016-17			
Average annual turnover of the last 3 years			

Note:-Figures given in column (2) & (3) above must match with those given in the Audited Accounts.

(B)

Financial Information in Rupees Equivalent	For year 2014-15	For year 2015-16	For year 2016-17
1	2	3	4
1 Total Assets			
2 Current Assets			
3 Total Liabilities			
4. Current Liabilities			
5. Profit before Tax			
6. Profit after Tax			

OTHER EVALUATION INFORMATION

- i) Registration/Licence :The Consultant/Consulting Firm must have registration with service tax or/and sales tax from the appropriate authorities, whichever applicable (Photocopies of registration certificates to be submitted.)
- ii) The consultant should not have abandoned any work of Government of India/Other stateGovernment Departments during the last 5 years.
- iii) Information regarding litigation, expulsions and blacklisting , if any, should be submitted with details.