



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

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No.NHAI/CMC/IE/2011

Date: 05.07.2011

POLICY MATTER: TECH (82/2011)

Sub: Standard Sub-Criteria for evaluation of RFP proposal for Appointment of Independent Engineer for DBFOT Projects of NHAI.

Competent Authority has approved the enclosed Standard Sub-Criteria for evaluation of RFP proposal for Appointment of Independent Engineer for DBFOT Projects of NHAI for adoption by all Technical Divisions of NHAI with immediate effect.

Check-list for seeking approval from Competent Authority for inviting RFP is also enclosed.

This issues with the approval of Competent Authority.

(R.B.Sinha)

General Manager(CMC)

Encl: As above

To

All CGM(T)s/GM(T)s/DGM(T)s/Manager(T)s in HQ

Copy for information to:

PS to Chairman/PS to Members

Librarian

**Evaluation Sub Criteria for Procurement of Independent Engineer
for DBFOT Projects.**

(Minimum Eligibility criteria for applicant as per RFP document to be
checked before carrying out detailed evaluation)

Evaluation Criteria for Assessment of Experience of the Firm.

(Refer para 5.3(i) of Section 2, Data Sheet of RFP)

S.No.	Description	Maximum Marks
1.	Year of Establishment of the Firm (In case of JV year of establishment of Lead Member shall be considered) Upto 5 years - 1.5 marks More than 5 years - 2 marks	2
2.	Average Annual Turnover (last 5 years or in each of the preceding two years) from consultancy business < 2% of Total Project Cost - 0 marks 2% Total Project Cost - 1.5 marks Add for additional turnover 0.25 (Zero point two five) marks for every 1% of TPC above 2% subject to maximum 0.5 marks.	2
3.	Numbers of key personnel with the firm more than one year with the firm. ≤ 20 personnel - 0 marks 21 to 30 - Linearly varying from 0.3 to 3 > 30 personnel - 3 marks	3
4	Experience as Independent Engineer/Construction Supervision in Number of Highway Projects of length equal to 40% of project length of similar category for which RFP invited of 2/4/6-laning or more in last 7 years. 1 project - 9 marks Add 1(one) mark extra for completed assignment of Independent Engineer and add 0.5 (Zero point five) marks extra for completed assignment of supervision consultancy subject to maximum 3 (three) marks.	12

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5	Experience in DPR preparation for Number of Highway Projects (of length 40% of project length of similar category for which RFP invited of 2/4/6-laning or more) in last 7 years. 1 project - 3 marks Add 0.25 (Zero point two five) marks extra for each additional project subject to maximum 1 marks.	4
6.	Experience in Construction Supervision/DPR /Design Review of Major structures having length of more then 500 metre in last 7 years. 1 project - 1.5 marks Add 0.25 (Zero point two five) marks extra for each additional project subject to maximum 0.5 marks.	2

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Note 1: In case of JV the turnover and experience details of Lead and JV partners to be added.

Note 2: Employer's certificate/ certificate from Statutory Auditor should be submitted substantiating the experience/turnover claimed by the firm.

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**Criteria for Adequacy of The Proposed Work Plan and Methodology
(Refer Para 5.3 (ii) of Section 2; Data Sheet of RFP)**

Description	Maximum Marks
Understanding the objective, scope of assignment and Comments/suggestions on TOR (i) Average 0.50 (ii) Good 0.75 (iii) Very Good 1.00	1
Quality of Approach and Methodology (Review of scope of work and design review, construction supervision methodology, contract management approach, quality control and quality assurance, safety review/audit and O&M stage to be judged).e (i) Average 1.00 (ii) Good 2.00 (iii) Very Good 3.00	3
Work Programme and Manning Schedule (i) Average 0.50 (ii) Good 0.75 (iii) Very Good 1.00	1
Total Marks	5

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Evaluation Criteria for assessment of score of Key Staff for adequacy of the Assignment.
(Refer Para 5.3(iii) of Section 2, Data Sheet of RFP)

1. Team Leader cum Senior Highway Engineer

Sl. No.	Description	Max. Points
1	General Qualification	25
	I) Graduate in Civil Engineering	21
	II) Post Graduation in Highway Engineering	03
	III) Degree / Diploma / Certificate in Project Management	01
2	Adequacy for the Project	70
a)	Professional Experience in Highway Projects:	
i)	Total Professional Experience < 15 years -0 15 years -8 Add 0.5 marks extra for each additional year of experience subject to maximum 2 (two) marks.	10
ii)	Experience in Highway Development Projects < 5 years -0 5 years -13 Add 0.5 marks extra for each additional year of experience subject to maximum 2 (two) marks.	15
iii)	Experience in Highway Development projects on PPP 1 projects -3 marks add 1 mark extra for additional projects subject to maximum 2 (two) marks	5
b)	Experience as Team Leader or similar capacity of project Preparation of major highway Project of two/ four / six- laning/ expressway costing more than Rs. 2000 million or of at least 50 km length. < 2 projects -0 2 Projects -13 Add 1 mark for each additional project subject to maximum 2 marks.	15
c)	Experience in position of Team Leader/ Project Manager or similar capacity in Construction Supervision / IC involving 2/4 /6 laning/ Expressway of minimum 50km length <u>OR</u> 2/ 4/ 6 laning of Highway/ Expressway Projects costing more than Rs.2000 million < 2 projects - 0 2 Projects - 17 Add 1 mark extra for each additional project subject to maximum 3 (three) marks	20
d)	Experience in Operation and Maintenance of Major Highway links. 1 project - 3 marks Add 1 mark extra for each additional project subject to maximum 2 (two) marks	5

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3	Employment with the Firm		5
	< 1 year	-0	
	1 year	-3	
	Add 0.5 marks for each subsequent year subject to maximum 2 marks		
	Total :		100

Note: (1) Similar Capacity includes the following positions

- i) On behalf of Consultant : Team Leader / Resident Engineer (Construction Supervision/IE).
- ii) On behalf of Contractor : Project Manager (Construction/Construction Supervision)
- iii) In Government Organizations : Superintending Engineer (or equivalent) and above

(2) Only those projects will be considered for evaluation at Sl. No. 2(b), 2(c) and 2(d) above, where the input of the personnel is not < 6 months, one year and 6 months respectively.

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2. Senior Bridge Design Engineer

S. No.	Description	Max. Points
1	General Qualification	25
	I) Graduate in Civil Engineering	21
	II) Post Graduation in Structural Engineering	04
2	Adequacy for the Project	70
a)	Professional Experience in Bridge Projects:	
i)	Experience in Bridge Design < 15 years - 0 15 yrs - 22 Add 1 mark extra for each additional year subject to maximum 3 (three) marks.	25
ii)	Experience in Design of major highway Bridges in similar capacity. < 10 years - 0 10 years - 17 Add 1 mark extra for each additional year of experience subject to maximum 3(three) marks.	20
iii)	Design experience of major highway bridges < 4 bridges - 0 4 bridges - 15 Add 1 mark extra for each additional bridge design subject to maximum 4 (four) marks.	19
b)	Design experience of major highway bridges of length 200 m or more. (Excluding approaches). 1 mark for each bridge design subject to maximum 2 (two) marks.	2
c)	Experience in innovative (Pre-cast Segmental , Cantilever Construction, Cable Stayed Bridge, Suspension bridges etc.) bridge design with use of computer aided software 1 mark for each bridge design subject to maximum 2 (two) marks.	2
d)	Experience of Bridge work in other countries 1 mark for each complete year of experience subject to maximum 2 (two) marks.	2
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	
	Total :	100

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3. Traffic and Transportation Expert

Sl. No.	Description	Max. Points
1	General Qualification	25
	D) Graduate in Civil Engineering	21
	II) Post Graduation in Traffic Engineering	04
2	Adequacy for the Project	70
a)	Professional Experience	
i)	Total Professional Experience < 15 years -0 15 years -16 Add one mark extra for each additional year of experience subject to maximum 4 (four) marks.	20
ii)	Similar Experience in Traffic and Transportation in projects of similar nature of at least 1 project of 4/6 laning/Expressway or similar project. < 5 years -0 5 years -30 Add one mark extra for each additional year of experience subject to maximum 10 (ten) marks.	40
iii)	Experience in Road Safety aspects during various phases of Highway Project Preconstruction Design & Development Stage -2 Construction stage -4 One Safety Audit -1 (each additional gets 0.5 marks subject to maximum 1) -1 Safety Study of sub-urban/Highway Project -1 (each additional gets 0.5 marks subject to maximum 1) -1	10
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	5
	Total :	100

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4. Resident cum Highway Engineer

Sl. No.	Description	Max. Points
1	General Qualification	25
	I) Graduate in Civil Engineering	21
	II) Post Graduation in Civil Engineering	04
2	Adequacy for the Project	70
	Professional Experience	
i)	Experience in supervision of Highway projects < 15 years -0 15 years -32 Add two marks extra for each additional completed year of experience subject to maximum 8 (eight) marks.	40
ii)	No. of major 4/6 laning projects handled < 2 nos -0 2 nos -22 Add one mark extra for each additional project subject to maximum 3 (three) marks.	25
iii)	Experience of Highway Project of Construction /Construction Supervision/IC on PPP Mode 2.5 marks for each project subject to maximum 5 (five) marks	5
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks marks	5
	Total :	100

Note: Only those projects will be considered where at least 6 months input has been claimed.

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5. Bridge/Structural Engineer

Sl. No.	Description	Max. Points
1	General Qualification	25
	I) Graduate in Civil Engineering	21
	II) Post Graduation in Structural Engineering	04
2	Adequacy for the Project	70
i)	Total Professional Experience < 15 years -0 15 years -12 Add one mark extra for each additional 2 year subject to maximum 3(three) marks.	15
ii)	Experience in Construction/Construction Supervision of Bridges/Interchanges/ any other such structures < 10 years -0 10 years -17 Add 1 (one) mark extra for each additional completed year of experience subject to maximum 3 (three) marks.	20
iii)	Experience in similar capacity in supervision of Major Highway bridges < 2 Bridges -0 02 Bridge -17 Add1 (one) mark extra for each additional bridge subject to maximum 3 (three) mark	20
iv)	Experience in supervision of Rehabilitation and repair of major bridges < 2 - 0 2 nos -08 3 or more -10	10
iv)	Experience in International best practices of modern bridge construction technology viz., Precast Segmental, Balanced Cantilever Construction, Extradosed Bridge, Full Span Launching, Incremental Launching. Experience in 1 project - 4 More than one project - 5 marks	5
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	5
	Total :	100

Note: Only those projects will be considered where at least 6 months input has been claimed.

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6. Senior Pavement Specialist

Sl. No.	Description	Max. Points
1	General Qualification	25
	I) Graduate in Civil Engineering	21
	II) Post Graduation in Highway Engineering/ Pavement Design	04
2	Adequacy for the Project	70
	Professional Experience	
i)	Professional Experience of Pavement Design/ Construction and Maintenance of Highways/Roads/Air Field Runway < 15 years -0 15 years -16 Add one mark extra for each additional year of experience subject to maximum 4 (four) marks.	20
ii)	Experience in Pavement Design (similar capacity) for 4-laning of major Highway Projects < 5 years -0 5 years -17 Add one mark extra for each additional year of experience subject to maximum 3 (three) marks.	20
iii)	Experience as Pavement / Geo-technical Engineer in construction/ construction supervision of Major Highway projects < 2 nos -0 2 nos -21 Add 2.0 (two) marks extra for each additional project subject to maximum 4 (four) marks.	25
iv)	International Experience in design/construction and maintenance of flexible/rigid pavement including latest codal provision/specifications. Experience in 1 project - 1 More than one project - 2 marks	2
v)	Experience in similar capacity on PPP Projects 1.5 marks for each project subject to maximum 3 (three) marks	3
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	5
	Total :	100

Note: Only those projects will be considered where at least 6 months input has been claimed.

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7. Senior Quality/Material Expert

Sl. No.	Description	Max. Points
1	General Qualification	25
	I) Graduate in Civil Engineering	21
	II) Post Graduation in Geotechnical Engineering/ Foundation Engineering/Soil Mechanics/Rock Mechanics	04
2	Adequacy for the Project	70
	Professional Experience	
i)	Total Professional Experience < 15 years -0 15 years -13 Add one mark extra for each additional year of experience subject to maximum 2 (two) marks.	15
ii)	Experience in similar capacity in Construction/Construction Supervision of major Highway Projects < 5 years -0 5 years -21 Add 2.0 (two) marks extra for each additional year of experience subject to maximum 4 (four) marks.	25
iii)	Similar Highway projects handled in similar capacity < 2 nos -0 2 nos -20 Add 2.5 marks extra for each additional project subject to maximum 5 (five) marks.	25
iv)	Experience in latest Quality management techniques in Highway Projects using modern technology. 1 project -3 Add 0.5 (zero point five) marks extra for each additional project subject to maximum 2 (two) marks.	5
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	5
	Total :	100

Note: Only those projects will be considered where at least 6 months input has been claimed.

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8. Highway Design Engineer

Sl. No.	Description	Max. Points
1	General Qualification	25
	I) Graduate in Civil Engineering	21
	II) Post Graduation Highway Engineering	04
2	Adequacy for the Project	70
	Professional Experience	
i)	Total Experience in Highway Works < 15 years -0 15 years -16 Add one mark extra for each additional year of experience subject to maximum 4 (four) marks.	20
ii)	Experience in Highway Designing works < 5 years -0 5 years -17 Add one mark extra for each additional year of experience subject to maximum 3 (three) marks.	20
iii)	Experience as Highway Design Engineer in DPR/Supervision of major 4/6 lane improvement projects < 2 nos -0 2 nos -17 Add one mark extra for each additional one project subject to maximum 3 (three) marks.	20
iv)	Experience on computer aided design methods for civil/Highway Engineering with particular reference to CAD application to geometric design for Highway rehabilitation and/or upgrading projects 1 Project -4 2 or more -5	5
v)	Experience on major Highway projects on PPP mode 1 Project -4 2 or more -5	5
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	5
	Total :	100

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9. Road Safety Expert

Sl. No.	Description	Max. Points
1	General Qualification	25
	I) Graduate in Civil Engineering	21
	II) Post Graduation in Traffic/Transportation/Safety Engineering	04
2	Adequacy for the Project	70
	Professional Experience	
i)	Total Highway Works Experience < 15 years -0 15 years -12 Add one mark extra for each additional year of experience subject to maximum 3 (three) marks.	15
ii)	Experience in Road Safety works on Major Highway (4/6 laning) Project. < 10 years -0 10 years -13 Add one mark extra for each additional year of experience subject to maximum 2 (two) marks.	15
iii)	Experience in Road Safety Audits of 4/6 laning Highway projects at different stages including at least one at design stage < 2 nos -0 2 nos -25 Add 1 (one) mark extra for each additional project subject to maximum 5 (five) marks.	30
iv)	Involvement in Preparation of Road Safety Policy of Nation / State / City. One mark for each project subject to maximum 2 (two) marks.	2
v)	Experience of preparing Road Safety Management Plans for Inter Urban Highway on PPP Mode 1 project -2 marks 2 or more -3 marks	3
vi)	International Exposure in field of Road Safety Management Plan 1 project -4 marks 2 or more -5 marks	5
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	5
	Total :	100

10. Financial Expert

Sl. No.	Description	Max. Points
1	General Qualification	25
	MBA(Finance)/Chartered Accountant	25
2	Adequacy for the Project	70
	Professional Experience	
i)	Total Experience as a Financial Advisor particularly in the field of project financing < 8 years - 0 8 years - 50 Add 1 (one) mark extra for each additional year of experience subject to maximum 10 (ten) marks.	60
ii)	Advisory experience in the field of transportation project. < 1 year -0 Add 1 (one) mark extra for each year of experience subject to maximum 10 (ten) marks.	10
3	Employment with the Firm < 1 year -0 1 year -3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	5
	Total :	100

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11. Legal Expert

Sl. No.	Description	Max. Points
1	General Qualification	25
	Law Graduate with Registered Lawyer in Bar Council	25
2	Adequacy for the Project	70
	Professional Experience	
i)	Total Experience in contracts and financial documentation related to project financing. < 8 years - 0 8 years - 33 Add 1 (one) mark extra for each additional year of experience subject to maximum 7 (seven) marks.	40
ii)	Experience in financial documentation related to project financing. < 4 years - 0 4 years - 17 Add 1 (one) mark extra for each additional year of experience subject to maximum 3 (three) marks.	20
iii)	Advisory experience in Highway/transportation sector. < 1 year - 0 Add 1 (one) mark extra for each year of experience subject to maximum 10 (ten) marks.	10
3	Employment with the Firm < 1 year - 0 1 year - 3 Add 0.5 marks for each subsequent year subject to maximum 2 marks	5
	Total :	100

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Sub: Check-list while seeking approval for inviting RFP for Independent Engineer as per the approved RFP Document

1.	Subject: Permission to invite RFP for Independent Engineer services for _____ (Name of project) on DBFOT Basis under NHDP-Phase-							
2. DETAILS OF PROJECT								
S No	Consultancy Package	NH No.	State	Project Stretch	Project Length (Km) / Total Project Cost (Cr.)	Assignment period (months)		
1								
3	Narrative para with broad justification for inviting RFP with project linked details.							
4.	Any curtailment in time of invitation of bid			No. of days for RFP submission from the date of Invitation.		Justification for curtailment, if any.		
5.	Total Time period for the assignment			36 months as per Standard RFP		No change		
						In case of deviation: Reasons / justification for proposed change for which approval sought.		
6.	Part-II: Technical proposal							
	Clause No.							
	Section 2, Clause 3.3(i)		Man-months for the assignment as per standard RFP*			No change		
						In case of deviation: Reasons / justification for proposed change for which approval sought.		
						Any other change in the justification for approval.		
7.	No. and position of key personnel/sub-professional as per Standard RFP (Enclosure-A of TOR)				No change			
					In case of deviation: Reasons / justification for proposed change for which approval sought.			

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8.	Any other changes for which approval is to be sought		
	Clause _____ in the standard RFP	Change proposed	Justification with specific approval being sought
	Clause _____ in the standard RFP	Change proposed	Justification with specific approval being sought
	Any other change		
9.	Remarks (if any) requiring approval of the Competent Authority		

*The man-months in the standard RFP are as per the current norms in use. (Any deviation for achieving optimum requirement as per the project details may be specifically mentioned by Technical Division).

2. It is confirmed that no any other change in deviance to standard RFP, other than above, is proposed to be effected in the RFP being invited.
3. May kindly approve as per above.

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DGM/Manager(Technical)
initiating the note

DGM(T)

GM(T)

CGM(T)

Member(T)

Chairman

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