#### राष्ट्रीय राजमार्ग एवं अवसंरचना विकास निगम लिमिटेड

सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार तीसरी मंजिल, पीटीआई बिल्डिंग, 4—संसद मार्ग, नई दिल्ली—110001

#### National Highways & Infrastructure Development Corporation Limited

Ministry of Road Transport & Highways, Govt. of India 3rd Floor, PTI Building, 4-Parliament Street, New Delhi-110001, +91 11 23461600, www.nhidcl.com





(भारत सरकार का उद्यम)

(A Government of India Enterprise)

NHIDCL/JK/NH1/Zojila/AE/2020 | 999

10.12.2020

To,

M/s ICT in JV with AIAPL Email: business@ictonline.com  M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg. Consultancy Email: info@irconisl.com	M/s RITES Ltd. in association with Space Engineering Consortium Email: info@rites.com
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**Subject:** Consultancy Services as Authority's Engineer for Supervision of Construction of (i) Connecting road from Z-Morh Tunnel to Zojila Tunnel and (ii) 14.150 km long bidirectional tunnel across Zojila Pass on Sonamarg-Kargil section of NH-01 on EPC mode in the Union Territories of Jammu & Kashmir and Ladakh - *Technical Evaluation Result -reg*.

Ref: Your Bid dated 27.11.2020.

Sir,

Please refer to your proposal for the project cited above. In this regard the result after first and second stage evaluation is as under:

Sr. no.	Name of the Firm	Technical Score	Status of Eligibility
(i)	M/s ICT in JV with AIAPL	91.99	Eligible
(ii)	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg. Consultancy	84.64	Eligible
(iii)	M/s RITES Ltd. in association with Space Engineering Consortium	76.74	Eligible

If you have any comments on the enclosed evaluation sheets, you are requested to offer your comments at the earliest and latest by 11.12.2020 upto 1500 hrs. Financial bids will be opened on 14.12.2020 at 1115 hrs.

(B. Shivpfasad)
General Manager (Tech.)

Encl: Detailed Evaluation.

# National Highways & Infrastructure Development Corporation Limited (Ministry of Road Transport & Highways, Government of India)

Date: 04.12.2020 (1100 Hrs)

Venue: PTI Building, 3<sup>rd</sup> Floor, Conference Hall, NHIDCL HQ, New Delhi.

Minutes of Meeting of Technical Bid Evaluation Committee (TEC) for "Consultancy Services as Authority's Engineer for Supervision of Construction of (i) Connecting road from Z-Morh Tunnel to Zojila Tunnel and (ii) 14.150 km long bi-directional tunnel across Zojila Pass on Sonamarg-Kargil section of NH-01 on EPC mode in the Union Territories of Jammu & Kashmir and Ladakh".

The following firms had submitted their bids on the CPP Portal by due date and time.

SI. No.	Name of Firm
1.	M/s ICT in JV with AIAPL
2.	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg Consultancy
3.	M/s RITES Ltd. in association with Space Engineering Consortium

- 2. Having opened the Technical bids on 27.11.2020, the Committee (TEC) met on 04.12.2020 to undertake the Evaluation in accordance with the provisions of RFP and noted the following:
  - (i) As per clause 3 of ITC, all the bidders registered on Infracon shall form a Team on Infracon and which would be assigned unique Infracon Team ID. Bidders while submitting the proposal shall quote the Infracon Team ID.
  - (ii) As per clause 4 of ITC, Bid must be submitted online at e-tender portal of NHIDCL, https://eprocure.gov.in as per the date and time mentioned in Datasheet.
  - (iii) As per clause 10 of ITC, the proposal should be submitted by consultancy firms in two parts. The two parts of the proposal are Part1: Technical Proposal and Part2: Financial Proposal. For a given EPC Project, Part 1 of Stage -2 of the Evaluation shall consider the evaluation of the Technical Proposal. The firms scoring the qualifying marks (minimum 75%) as specified in RFP shall only be considered for further evaluation. Under Part 2 of Stage-2, the financial proposal of such firms as selected above shall be opened and evaluated. Proposals will finally be ranked according to their combined technical and financial scores as specified in clause 5 of section 2. The first ranked Applicant shall be selected for negotiation (the "Selected Applicant") while the second ranked Applicant will be kept in reserve
  - (iv) As per clause 13 of ITC, only Indian firms are allowed to participate in the bid through National Competitive Bidding and no International Bidder/foreign bidder or company having ownership abroad will not be eligible as individually or as a member of a Joint Venture or as an associate. However, expert key personnel (max. 03) having citizenship / origin of the countries other than the countries having common land border with India will be permitted.

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Page 1 of 5

- (v) As per clause 14 of ITC, Consultants may apply either as a sole firm or forming Joint Venture with other consultants. In case of Joint Venture, maximum 3 (three) members will be permitted to form a JV which includes One Lead + Two JV partners OR One Lead + One JV partner + One Associate OR One Lead + Two Associates at the discretion of the prospective bidders. Formulation of more than one JV/association with different partners for the same work is not allowed and all such proposal involving the firms shall be treated as non-responsive. If the consultant submits bids as sole applicant and also in JV/Association with another consultant, both bids shall be summarily rejected. No consultant shall submit more than one bid.
- (vi) It was informed by the technical division that being the consultancy services for Authority's Engineer of Zojila Tunnel proposal submitted through INFRACON needs to be evaluated manually.

#### 3. First Stage Evaluation:

3.1 The Committee noted the requirements of documents in support of proof of eligibility as per clause 4.1 of Letter of Invitation. The TEC carried out further evaluation in terms of proof of eligibility and the detailed evaluation is attached at **Annexure-I**. The evaluation result is tabulated below:

		1	2	3
Sr. No.	Details of documents to be submitted online	M/s ICT in JV with AIAPL	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg Consultancy	M/s RITES Ltd. in association with Space Engineering Consortium
1.	The proposal is accompanied by Document fee	Yes Received	Yes Received	Yes Received
3.	The firms(s) have required experience (Evaluation sheet at Annexure-I)	Yes	Yes	Yes
4.	The firms(s) have required turnover (Evaluation sheet at Annexure-I)	Yes	Yes	Yes
5.	The documents are properly signed by the authorized signatories and whether the proposal contains proper POA	Yes (Scanned copy)	Yes (Scanned Copy)	Yes (Scanned Copy)
6.	The proposals have been received on or before the dead line of submission.	Yes	Yes	Yes
7.	In case a Joint Venture/Association of firms, the proposal shall be accompanied by a certified copy of legally binding Memorandum of Understanding (MOU) on a stamp paper of Rs.100, signed by all firms to the joint venture/Association	Yes	Yes	Yes

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4. The Committee after due deliberation found that the following responsive firms are eligible for the second stage of bid evaluation:

S. No.	o. Name of the Applicants				
1.	M/s ICT in JV with AIAPL	Responsive			
2.	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg Consultancy	Responsive			
3.	M/s RITES Ltd. in association with Space Engineering Consortium	Responsive			

5. The second stage evaluation of the above mentioned qualified firms were carried out. The key points observed during second stage evaluation are summed up as follows:

#### 5.1 Relevant experience for assignments:-

The marks obtained by the firms towards relevant experience for assignments are enclosed as **Annexure-II** and marks obtained are given below:

Sr. No.	Name of the firm	Maximum Marks	Marks obtained
1.	M/s ICT in JV with AIAPL		38
2.	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg. Consultancy	40	32
3.	M/s RITES Ltd. in association with Space Engineering Consortium		35

## 5.2 Experience in use of technology for road inspection:

The marks obtained by the firms towards Experience in use of technology for road inspection are enclosed as **Annexure-III** and marks obtained are given below:

Sr. No.	Name of the firm	Maximum Marks	Marks obtained
1.	M/s ICT in JV with AIAPL		9.5
2.	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg. Consultancy	10	7
3.	M/s RITES Ltd. in association with Space Engineering Consortium		8

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### 5.3 Qualifications and competence of the key staff for the assignment:

The marks obtained by the key personnel of the firms towards Qualifications and competence of the key staff for the assignments are enclosed as **Annexure-IV** and marks obtained are given below:

		1	2	3	
Position	Total marks M/s ICT in JV with AIAPL		M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg. Consultancy	M/s RITES Ltd. in association with Space Engineering Consortium	
		Marks	Marks	Marks	
Team Leader cum Senior Tunnel Expert	10	8.80	9.00	7.50	
Resident Engineer cum Tunnel Excavation Expert	6	5.34	5.70	4.92	
Resident cum Highway Engineer	5	5.00	4.80	0	
Tunnel Design Engineer	5	4.50	4.63	4.075	
Tunnel Safety Expert	5	4.04	4.01	0	
Senior Geotechnical Expert	5	3.95	4.45	4.15	
Senior Geologist	5	4.48	4.45	4.60	
Senior Quantity Cum Material Expert	5	4.55	4.75	4.75	
Senior Contract Specialist	4	3.84	3.80	3.74	
Total	50	44.49	45.64	33.74	

## 6. The final technical scores (Annexure-V) were worked out as under:

	Summary of	f evaluation of Te	echnical Propos	als		
S. No.		Relevant experience for assignments	Experience in use of technology for road inspection	Qualifications & competence of the key personnel	Total marks	Remarks
	Maximum Mark	40	10	50	100	
1	M/s ICT in JV with AIAPL	38	9.5	44.49	91.99	Eligible for opening of financial proposal
2	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg. Consultancy	32	7	45.64	84.64	Eligible for opening of financial proposal
3	M/s RITES Ltd. in association with Space Engineering Consortium	35	8	33.74	76.74	Eligible for opening of financial proposal

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- 7. In view of the above, ETEC recommended that the following firms qualify for the Financial Bid Opening:
  - 1. M/s ICT in JV with AIA
    - M/s Ircon Infrastructure & Services Ltd in JV with Segmental in
  - 2. association with NM Engg Consultancy
  - 3. M/s RITES Ltd. in association with Space Engineering Consortium

Meeting ended with vote of thanks to the Chair.

Sh. Bhaskar Malick Manager (Fin.) (Member)

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GM (Tech.) (Member) Sh. B. Shivprasad GM (Tech.) (Member Secretary)

Sh. Sanjeev Malik Executive Director (Convener)

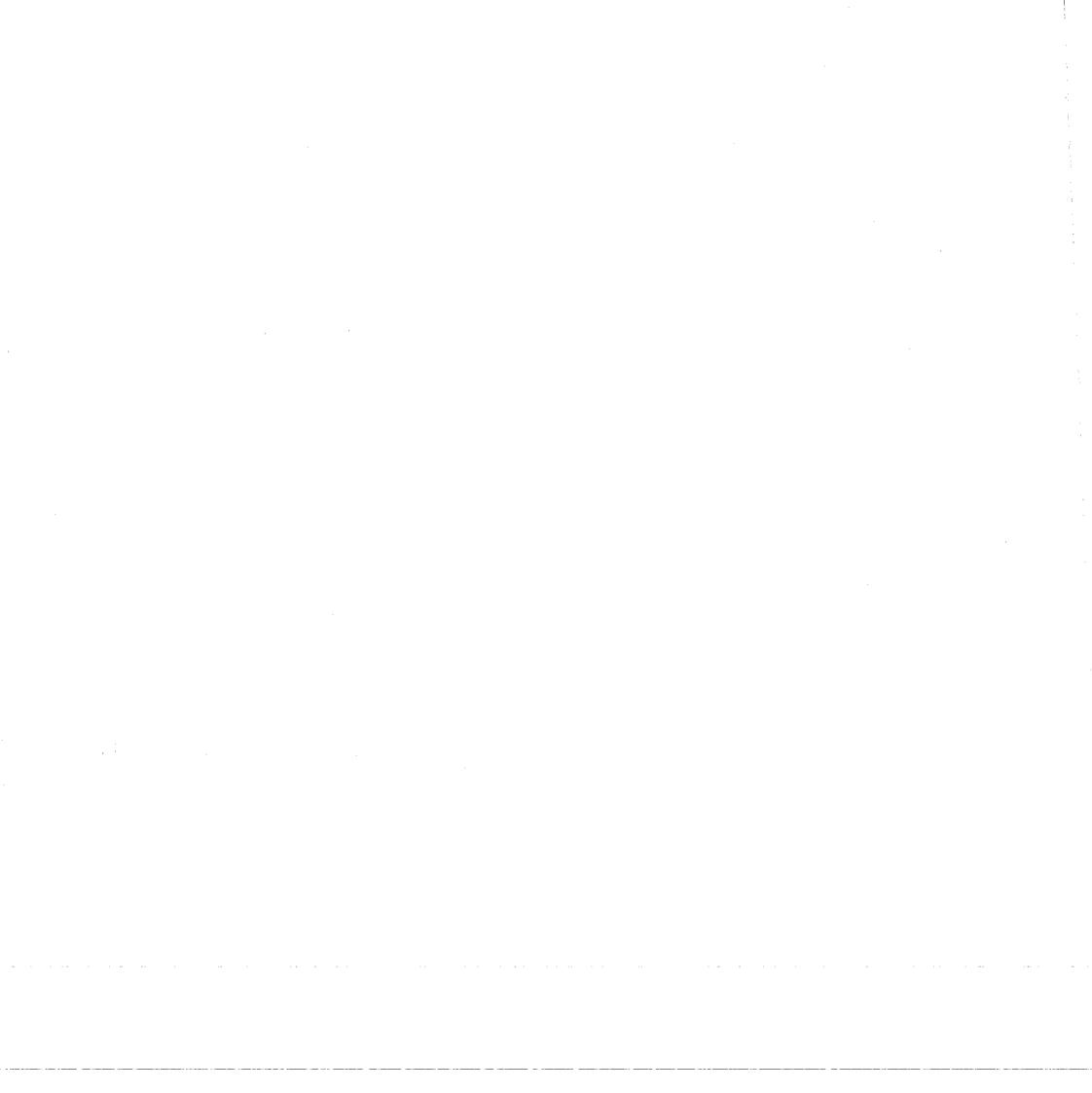
			Summary of evaluation of	Technical Proposals		
S. No.	Description	Maximum Marks	M/s ICT in JV with AIA	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg Consultancy	M/s RITES Ltd. in association with Space Engineering Consortium	
		-	1	2	2	
1 Relevant experience for			Marks Awarded	Marks Awarded	Maril 4	
-	assignments	40	38		Marks Awarded	
2	Labertence			32	35	
r	n use of Technology for oad inspectioon	10	9.5	7	8	
	Qualifications and					
p	ompetence of the key ersonnel	50	44.49	45.64	22.54	
Total marks Remarks		100	01.00		33.74	
			91.99	84.64	76.74	
		1				
					1	

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## Evaluation of Technical Proposal - Summary of Key Personnel

S. No.	Position	Total marks	2	3	
			M/s ICT in JV with AIA	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in	M/s RITES Ltd. in association with Spa- Engineering
1	Team Leador our Sant M		Marks	Marks	Marks
	Team Leader cum Senior Tunnel Expert	10	8.80	9.00	7.5
2	Resident Engineer cum Tunnel Excavation Expert				
	Expert cum Tunnel Excavation Expert	6	5.34	5.70	4.92
3	Resident cum Highway Engineer				
	Inghway Engineer	5	5.00	4.80	0
4	Tunnel Design Engineer	5	1.50		
		3	4.50	4.63	4.075
5	Tunnel Safety Expert	5	4.04		
6	Senior Geotechnical Expert			4.01	0
	- Tapert	5	3.95	4.45	4.15
7	Senior Geologist	5	4.48		
3	Senior Quality cum Material Expert			4.45	4.6
		5	4.55	4.80	4.75
)	Senior Contract Specialist	4	3.84	3.80	3.74
	Total	50			
	2007	50	44.49	45.64	33.735





	T	of experience of the firms (Relevent ex		M/s Ircon Infrastructure	P. Caustan			
Description .	Maximum marks	M/s ICT in JV with	M/s ICT in JV with AIAP		Ltd in JV with Segmental in association with NM Engg Consultancy		M/s RITES Ltd. in association with Space Engineering Consortium	
		Details	Marks	Details	Marks	Details	Marks	
Year of establishment of the firm (in case of JV, year of establishment of learnember shall be considered).	ad .							
< 5 years: 0 marks	3	1987 (ICT)	3	1976	3	1974 (RITES)	3	
Equal to 5 years: 1.5 marks		1,507 (10.1)	J			(12.23)		
Add 0.25 (Zero point two five) marks for each additional year subject maximum 3 marks (Total)	to							
Average Annual Turover (last three years) from consultancy business				54.10.40010.00				
< Rs 22.00 crore: 0 marks	_	279.43 Cr (ICT)		Ircon: 54.12 (2019-20 Turnover not uploaded on		2167.1 Cr (RITES)		
Equal to Rs 22.00 crore: 1.5 marks	2	2.2 Cr (AIA)	2	INFRACON)	2	3.50 Cr (Space)	2	
Add for additional turnover 0.25 (zero point two five) mark for every Rs 10 croabove Rs 120 crore subject to maximum 0.5 marks.	re			Segmental: 19.34				
Experience as construction supervision/Independent Engineer/Authority Engineer in no. of projects of tunnel length equal to or more than 1.6 km similar category of tunnel for which RFP is invited in last 10 years	of	Project serial nos. as on INFRACON  M/s ICT  Sl no. 74: (8.8*0.40)= 2.64 km (role of an Enginner)		Ircon: Nil Segmental:		Project serial nos. as on INFRACON  M/s RITES Sl No. 59: (55.016*0.40)		
1 project - 8 marks	10		8	Sl. No. 1,5	9	=22 km : Supervision (General Consultancy)	10	
Add 1 (one) mark extra for completed assignment of AE/IE and add 0.5 (zero point five) mark extra for completed assignment for supervision consultancy subject to maximum 10 (ten) marks (Total)								
Experience in DPR preparation/ Feasibility Study cum Preliminary Design Report for no. of projects of tunnel length equal to or more than 1.6 km similar category of tunnel for which RFP is invited in last 10 years		Project serial nos. as on INFRACON  M/s ICT  Sl No. 140 : 34.03 km  Sl No. 144 : (15.16*0.60)= 9.09 km		Ircon:		Project serial nos. as on INFRACON M/s RITES S1 No. 56: 10 km (in		
1 project- 8 marks	10	M/- AVA	10	Sl. No. 1	8	certificate not mentioned about tunnel)	10	
Add 1 (one) mark extra for completed assignment of DPR preparation/ Feasibili Study cum Preliminary Design Report subject to maximum 10 (ten) marks (Total		M/s AIA: SI No. 1 : (7.1*0.25)= 1.78 km		Segmental : Nil		about tuiner)		
In hand DPR/AE/IE/Consultancy Services of highway/bridge/tunnel project	ets	Project serial nos. as on INFRACON		Ircon: Nil		Project serial nos. as on		
for NHIDCL (presently under progress) as Sole/JV partner/ Associa Consultant	te	M/s ICT SI No. 159		Segmental: 01 (J&K) not		INFRACON M/s RITES		
< 2 projects - Zero Marks				updated on Infracon		6 projects (pdf 123) not		
2 to 5 projects - 5 Marks		M/s AIA:		NIM Factor day 01		given in INFRACON	12	
> 5 projects - 10 Marks	10	Sl. No. 1 Approach to Zojila Sl No. 2 (AEM) Sl No. 3 (Jammu-Akhnoor - IIIA) Sl. No. 5 (Mizoram - JICA Project) Sl No. 6 (AAE) Sl No. 7 (Aizawl Bypass)	10 .	NM Engineering: 01 (Meghalaya) Not updated on Infracon	5		5	
Experience in construction supervision/DPR/design review of maj structures (bridges/tunnels) having length of more than 500m in last 10 year 1 project- 3 marks		Project serial nos. as on INFRACON  M/s ICT  Sl No. 47 :2.96 km Sl No. 64 :0.810 km	5	Ircon: 4, 5, 6 & 7 Segmental: 5	5	Project serial nos. as on INFRACON M/s RITES SI No. 56: 10 km (in	5	
	-	SI No. 131 : 3.8 km (pdf Pg 398)	2007			certificate not mentioned about		
Add 0.5 (zero point five) mark extra for each additional project subject to maximum 5 (five) marks (Total)		Sl No. 95 : (1.47*0.60)= 0.88 km Sl No. 148 : 0.60 km (pdf Pg 425)			2	tunnel)		

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.

Note 3: \*\* For this, project experience of twin tunnel for road/rail/metro will be considered with a multiplication factor of 2.0.

<sup>\*\*</sup> Tunnel Works as applicable for the project for which RFP is invited. Road/Rail/Metro tunnel will be considered as part of transportation tunnel of similar category of projects. For standalone tunnel projects, experience in Tunnel work (either standalone project or as a part of road project) only be considered.

S. No.	Description								
		Maximum points	Sub- points	M/s ICT in JV with An Infra Advisor	•	M/s Ircon Infrastru Services Ltd in J Segmental in associa NM Engg Consul	V with tion with	M/s RITES Ltd. in associ Space Engineering Con	
				Details	Marks	Details	Marks	Details	Marks
1	Experience in Network Survey Vehicle (NSV) or better technology for pavement inspection	3.5		Pdf page no. 481	3.5		1.5		2.5
1.1	Equipment	2		(Technical Bid-1)		-		Pdf page no. 265	
	(a) Equipment on MOU with Associate or on hiring basis		1		2		0		1
	(b) Own Equipment		2						
1.2	Experience	1.5		T C		Infracon:			
	(a) 1-2 projects		0.5	Infracon Sr No. 124 (pdf 490),125		Sr No. 10 (pdf 192), 1		Infracon:	
	(b) 3-5 projects		1	(pdf 492), 128 (pdf	1.5	(pdf 196), 7(pdf 196), 5	1.5	Sr No. (pdf 301),	1.5
	(c) >5projects		1.5	484),140 (pdf 497),151 (pdf 502),152 (pdf 505)	1.3	(pdf 196),8 (pdf 206),(pdf 209)	1.5	(pdf 303),(pdf 305),(pdf 307),(pdf 309),(pdf 311),	1.3
	Experience in Falling Weight Deflectometer (FWD) or better technology for pavement strength	2			2		2		1.5
2.1	Equipment	1		Pdf page no.513		D.IC		D10 264	
	(a) Equipment on MOU with Associate or on hiring		0.5	(Technical Bid-1)	1	Pdf page no. 189	1	Pdf page no. 264	0.5
	(b) Own Equipment		1					7	
2.2	Experience	1		Infracon Sr No. 105 (pdf		Infracon:		Infracon:	
	(a) 1-3 projects		0.5	523),119 (pdf 535), 151 (pdf 530),152 (pdf 534)	1	Sr No. 10 (pdf 192), 1 (pdf 196), 7 (pdf 196), 5	1	Sr No. 10 (pdf 281), 13 (pdf 277), 14(pdf 274), 15 (pdf	1
	(b) > 3 projects		1		**	(pdf 196),8 (pdf 206)		279)	
3	Experience in Mobile Bridge Inspection Unit or better technology for bridge inspection	2.5		D16	2		1.5		2.5
3.1	Equipment	1		Pdf page no.513 (Technical Bid-1)		-		Pdf page no. 262	
	a) Equipment on MOU with Associate or on hiring		0.5		1		0		1
	b) Own Equipment		1						
3.2	Experience	1.5		Infracon Sr No. 126 (pdf		Infracon:		Infracon:	
	(a) 1-2 projects		0.5	553),134 (pdf 556), 117 (pdf 559),151 (pdf		Sr No. 10 (pdf 193), 1		Sr No. 10 (pdf 281), 13 (pdf 277), 14(pdf 274), 15	
	(b) 3-5 projects		1	561),152 (pdf 564)	-	(pdf 196), 7(pdf 196), 5 (pdf 196),8 (pdf 206)	1.5	(pdf 277), 14(pdf 274), 13 (pdf 279), (pdf 286), (pdf	1.5
	(c) 5 projects	•	1.5	301),132 (pdf 301)		(par 190),0 (par 200)		287),	
4	Experience in Retro reflectometer technology	2		Pdf page no.593	2		2		1.5
4.1	Equipment	1		(Technical Bid-1)	<i>L</i>	210	4		1.5
	(a) Equipment on MOU with Associate or on hiring		0.5	1 1	1	Pdf page no. 188	1	Pdf page no.269	0.5
	(b)Own Equipment		1	1					414,000
4.2	Experience	1		Infracon Sr No. 72 (pdf		Infracon:		Infracon:	
	(a)1-3 projects		0.5	597),117 (pdf 601),120		Sr No. 1 (pdf 196),		Sr No. 7 (pdf 322), 1&2	
	(b)> 3 projects		1	(pdf 605),134 (pdf 614)	The state of the s	7(pdf 196), 5 (pdf 196),8 (pdf 206)	1	(pdf 324), 5&9 (pdf 327),	1
	Total	10		-	9.5		7		8

Myl

Total:	3 Employm <1 year - 1 year - Add 0.5 n	apart from 1 project - 2 or more			S 5											
	Employment with the Firm < 1 year - 0 marks 1 year - 3 marks Add 0.5 marks for each subsequent year subject to maximum 2 marks	Experience in project preparation/design of major tunnel papart from those under 2 (b) (ii) 1 project - 4 marks 2 or more projects - 5 marks		of length to maxin	of length to maxin to maxin flength to maxin to maxin to maxin	city of Metro) of Metro) of ct to maxin to maxin to maxin to maxin to maxin	construct letro) of lence sulfience	construction of length to maxin	or tunnel construction/construction sup il/Metro)  a for each additional year of experience s ilar Capacity  In Leader or similar capacity in construction an 4 km  In Capacity  Ilar capacity of earn Leader or similar capacity of earn Leader or similar capacity of earn Leader or similar capacity in construction in Leader or similar capacity of leader or similar capacity of leader or similar capacity of leader or similar capac	for each additional year of experience narks  for tunnel construction/construction s  for each additional year of experience a for each additional year of experience are for each additional projects (Road/Rail/Metro) are each additional projects subject to material tunnels (Road/Rail/Metro) of length of the projects (Road/Rail/Metro) of length of the projects (Road/Rail/Metro) of length of the projects subject to material tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the projects subject to material are tunnels (Road/Rail/Metro) of length of the proj	ks k	ks ks for each additional year of experience arks.  Il experience in handling major s or tunnel construction/construction s Il/Metro) s or tunnel construction/construction s Il/Metro) s for each additional year of experience arks or tunnel projects (Road/Rail/Metro) s Ilar Capacity m Leader or similar capacity in construction s in of tunnel projects (Road/Rail/Metro) or each additional projects subject to man 4 km  I Leader or similar capacity in construction or each additional projects subject to man Leader or similar capacity in construction or each additional projects subject to man Leader or similar capacity in construction or each additional projects subject to man Leader or similar capacity in construction or each additional projects subject to man capacity in construction of leng dia ks s reach additional projects subject to man capacity in construction of leng dia ks	reach additional projects subject to marks  International Experience in handler capacity in constructional projects (Road/Rail/Metro)  a for each additional projects subject to marks  for each additional projects subject to marks  a for each additional projects subject to marks  a for each additional projects subject to marks  for tunnel projects (Road/Rail/Metro) of leng reach additional projects subject to marks  a for each additional projects subject to marks  for tunnels (Road/Rail/Metro) of leng reach additional projects subject to marks  for each additional projects subject to marks  a for each additional projects subject to marks	Chartered engineering or equivalent chartered engineer in Mining Engineer eering / Structural Engineering / Rock N Project  International Experience in handle ks ks for each additional year of experience narks.  I experience in handling major s or tunnel construction/construction s il/Metro) s or tunnel projects (Road/Rail/Metro) nan 4 km  Leader or similar capacity in constr llar Capacity m Leader or similar capacity in constr llar tunnels (Road/Rail/Metro) of leng ks r each additional projects subject to ma r teader or similar capacity in constr llar tunnels (Road/Rail/Metro) of leng ks reach additional projects subject to ma:	ion  Mining Engineering or equivalent  chartered engineer in Mining Engineer eering / Structural Engineering / Rock N  Project  Project  International Experience in handl Rks  ks  for each additional year of experience narks.  I experience in handling major  s  or tunnel construction/construction s  for each additional year of experience narks  or tunnel projects (Road/Rail/Metro)  a for each additional projects subject to n  the adder or similar capacity in construction  for each additional projects subject to n  Leader or similar capacity in construction  n Leader or similar capacity in construction  for each additional projects subject to n  Leader or similar capacity in construction  Reader or similar capacity in construction  for each additional projects subject to man  reach additional projects subject to man	Name of Key Personnel    International Experience in handle
ect to maximum 2 marks		f major tunnel projects	Metro) of length 4 km subject to maximum 2	acity in construction	subject to maximum 2	ad/Rail/Metro) of length ad/Rail/Metro) of length ts subject to maximum 2 acity in construction Metro) of length 4 km subject to maximum 2 subject to maximum 2	acity in construction d/Rail/Metro) of length of experience subject to r capacity of project ad/Rail/Metro) of length ts subject to maximum 2 acity in construction Metro) of length 4 km subject to maximum 2	acity in construction d/Rail/Metro) of length of experience subject to or capacity of project ad/Rail/Metro) of length ts subject to maximum 2 acity in construction Metro) of length 4 km subject to maximum 2	city in construction  subject to maximum 2  subject to maximum 2  subject to maximum 2  subject to maximum 2	of experience subject to construction supervision rof experience subject to acity in construction d/Rail/Metro) of length of experience subject to acity in construction ts subject to maximum 2 acity in construction Metro) of length 4 km subject to maximum 2 subject to maximum 2	of experience subject to  lling major tunnelling  of experience subject to  construction supervision  r of experience subject to  construction supervision  l/Rail/Metro) of length  da/Rail/Metro) of length  ts subject to maximum 2  acity in construction  Metro) of length 4 km  subject to maximum 2  subject to maximum 2	of experience subject to  of experience subject to  construction supervision  construction supervision  construction supervision  construction supervision  for experience subject to  construction  der capacity of length  dad/Rail/Metro) of length  ts subject to maximum 2  subject to maximum 2  subject to maximum 2  subject to maximum 2	ning Engineering/ pering/Rock Mechanics  nce in handling major  of experience subject to  lling major tunnelling  of experience subject to  construction supervision  construction supervision  l/Rail/Metro) of length  acity in construction  acity in construction  for experience subject to  acity in construction  detro) of length 4 km  acity in construction  Metro) of length 4 km  acity in construction	quivalent ning Engineering / pering / Rock Mechanics nce in handling major of experience subject to lling major tunnelling of experience subject to construction supervision sonstruction supervision l/Rail/Metro) of length acity in construction for capacity of project ad/Rail/Metro) of length acity in construction fur capacity of project ad/Rail/Metro) of length acity in construction fur construction acity in construction detro) of length 4 km acity in construction	quivalent ning Engineering / pering / Rock Mechanics nce in handling major nce in handling major of experience subject to lling major tunnelling of experience subject to construction supervision construction supervision l/Rail/Metro) of length fts subject to maximum 2 subject to maximum 2 subject to maximum 2 acity in construction Metro) of length 4 km acity in construction	nel  quivalent  quivalent  ning Engineering /  pering / Rock Mechanics  nce in handling major  nce in handling major  of experience subject to  construction supervision  acity in construction  J/Rail/Metro) of length  ts subject to maximum 2  ts subject to maximum 2  subject to maximum 2  subject to maximum 2
arks 5		sets 5	2 10	<u> </u>	<b>1</b> 0	ngth m m 2	gth  jject  m  m  2	gth to to to gth gth 2	gth gth am 2	ct to ct to gth gth ngth	ajor  ajor  ct to  ct to  sision  gth  gth  gth  2	ajor ct to c	ajor ct to c	ajor ajor ct to llling lling lision m 2	m and a since sinc	m 2 m mgth ct to ging May
			(Sr. no. 1,6,9,10)		(Sr. no. 1,6,9,10)	Sr. no. 1 (Sr. no. 1 1,6,9,10	12 yrs, 6 month (Sr. no. 1,6,9,10,11)  Sr. no. 12  (Sr. no. 12	12 yrs, 1 month (Sr. no. 1,6,9,10,1	18 yrs, 2 months (Sr. no. 1,3,6,9,10,11)  12 yrs, 6 month (Sr. no. 1,6,9,10,11)  Sr. no. 12  (Sr. no. 12	18 yrs, 8 months (Sr. no. 1,3,6,9,10,11 ,12)  18 yrs, 2 months (Sr. no. 1,3,6,9,10,11 )  12 yrs, 6 month (Sr. no. 1,6,9,10,11)  Sr. no. 12  (Sr. no. 12	18 yrs, 8 months (Sr. no. 1,3,6,9,10, )  18 yrs, 2 months (Sr. no. 1,3,6,9,10, )  12 yrs, 6 month (Sr. no. 1,6,9,10,10, 1,6,9,10, 1,6,9,10, 1,6,9,10, 1,6,9,10, 1,6,9,10, 1,6,9,10,10,10,10,10,10,10,10,10,10,10,10,10,	18 yrs, 18 yrs, 2 months (Sr. no. 1,3,6,9,10 )  18 yrs, 2 months (Sr. no. 1,3,6,9,10 )  12 yrs, 2 month (Sr. no. 1,6,9,10,1 )  Sr. no. 1  (Sr. no. 1	18 yrs, 18 yrs, 18 yrs, 18 yrs, 18 yrs, 19 months (Sr. no. 1,3,6,9,10,12)  18 yrs, 19 months (Sr. no. 1,3,6,9,10,12)  12 yrs, 10 month (Sr. no. 1,6,9,10,12)  Sr. no. 1	18 yrs, months (Sr. no. 1,3,6,9,10, )  12 yrs, month (Sr. no. 1,6,9,10, )  Sr. no. 1  (Sr. no. 1	Details	
	0	0	0) 10		0)										Aw	
		1 project Sl. No. 3	4 projects \$1 No. 2,8,9,12		4 projects SI No. 2,8,9,12	3 projects SI no. 5, 7 & 11  4 projects SI No. 2,8,9,12	<12 yrs  3 projects SI no. 5, 7 & 11  4 projects SI No. 2,8,9,12	<12 yr. <12 yr. 3 projec Sl no. 5, & 11 4 projec Sl No. 2,8,9,17	>23 yrs <12 yrs <12 yrs <12 yrs 4 project SI no. 5, & 11 2,8,9,12	> 24 yrs >23 yrs >23 yrs <12 yrs <12 yrs 4 projects \$1 no. 5, 2 & 11 4 projects \$1 No. 2,8,9,12	>15 yrs SI No. 1,2,7,8,9,1 0,11 & 12  >24 yrs  >23 yrs  >23 yrs  >23 yrs  4 projects SI no. 5,7 & 11  4 projects SI No. 2,8,9,12	>15 yrs SI No. 1,2,7,8,9 0,11 & 1 >24 yrs >23 yrs >23 yrs SI no. 5, & 11 4 projec SI no. 5, & 11 2,8,9,1	>15 yrs SI No. 1,2,7,8,9 0,11 & 1 >24 yrs >23 yrs >23 yrs SI no. 5, & 11 4 projec SI no. 5, & 11 2,8,9,1	>15 yrs SI No. 1,2,7,8,9 0,11 & 1 >24 yrs >23 yrs >23 yrs SI no. 5, & 11 4 projec SI no. 5, & 11 2,8,9,1		
	0	3 4	its 10		2 10										Aw	tion Con
			2 projects Sl. No. 3, 8 & 10		(Sr. no. 14, 15, 16,17)	(Sr. no. 14, 15, 16,17)	10 yrs (Sr. no.3, 8, 9, 14,15,17) (Sr. no. 14, 15, 16,17)	10 yrs (Sr. no.3, 8, 9, 14,15,17) (Sr. no. 14, 15, 16,17)	12 yrs, 5 month (Sr. no. 4,5,6,8,13,15,17)  10 yrs (Sr. no.3, 8, 9, 14,15,17)  (Sr. no. 14, 15, 17)	>17 yrs (Sr. no. 2,3,4,7,8,11,13,1 4,15,16,17)  12 yrs, 5 month (Sr. no. 4,5,6,8,13,15,17)  10 yrs (Sr. no.3, 8, 9, 14,15,17)  (Sr. no. 14, 15, 17)	>7 yrs >17 yrs (Sr. no. 2,3,4,7,8,11,13, 4,15,16,17)  12 yrs, 5 month (Sr. no. 4,5,6,8,13,15,17)  10 yrs (Sr. no.3, 8, 9, 14,15,17)  (Sr. no. 14, 15, 16,17)	>7 yrs >17 yrs (Sr. no. 2,3,4,7,8,11,13, 4,15,16,17)  12 yrs, 5 month (Sr. no. 4,5,6,8,13,15,17)  10 yrs (Sr. no.3, 8, 9, 14,15,17)  (Sr. no. 14, 15, 16,17)	>7 yrs >17 yrs (Sr. no. 2,3,4,7,8,11,13, 4,15,16,17)  12 yrs, 5 month (Sr. no. 4,5,6,8,13,15,17)  10 yrs (Sr. no.3, 8, 9, 14,15,17)  (Sr. no. 14, 15, 16,17)	>7 yrs >17 yrs >17 yrs (Sr. no. 2,3,4,7,8,11,13, 4,15,16,17) 12 yrs, 5 month (Sr. no. 4,5,6,8,13,15,17) 10 yrs (Sr. no.3, 8, 9, 14,15,17) (Sr. no. 14, 15, 16,17)	>7 yrs >7 yrs >17 yrs 2,3,4,7,8,11,13,4,15,16,17) 12 yrs, 5 month (St. no. 4,5,6,8,13,15,17) 10 yrs (Sr. no.3, 8, 9, 14,15,17) (Sr. no. 14, 15, 17)	
	0	0	9		10										Marks	



				s		b iv)	b iii)	b ii)	b i)	a iii)	a ii)	a i)	3		1		Sl. No.	6.50
Similar Capacity:  (i) On the behalf of Consultant: Resident Engineer/Tunnel Design Engineer/Tunnel Engineer/Tunnel Excavation Eng (ii) On behalf of Contractor: Resident Engineer/Tunnel Engineer/Tunnel Excavation Engineer/Project Manager. (iii) In Government Organizations: Superintendent Engineer (or equivalent) and above.	Only those projects (in numbers) will be considered for evaluation above, where the input of the personnel is not < 12 *** tunnel projects, unless specifically mentioned, has to be major tunnels of length equal to or more than 1.5 Km to b	Max Age = 65 Years Note:-	Add 0.5 marks for each subsequent year subject to maximum 2 marks  Total:	Employment with the Firm < 1 year - 0 marks 1 year - 3 marks	apart from those under 2(b) (ii)  1 project - 3 marks  Add 1 mark extra for each additional projects subject to maximum 2 (two) marks.	International Experience as Tunnel Excavation Expert or similar capacity in construction supervision of tunnel projects (Road/Rail/Metro) of minimum length of 4 km (minimum one year supervision in a project) < 2 projects - 0 2 projects - 8 marks Add 1 marks extra for each additional projects subject to 2 (Two) marks.	Experience in tunnel design/ DPR preparation / feasibility study/design review involving major tunnel projects (Road/Rail/Metro) of minimum of 4 km (minimum 1 year experience in a project) 1 project - 7 marks Add 1 mark extra for each additional projects subject to maximum 3 (three) marks.	Experience as Tunnel Excavation Expert or similar capacity in construction supervision of tunnel projects (Road/Rail/Metro) of minimum length of 4 km (minimum one year supervision in a project) < 2 projects - 0 < 2 projects - 8 marks  Add 1 marks extra for each additional projects subject to 2 (Two) marks.	Experience in Similar Capacity  Experience as Tunnel Excavation Expert or similar capacity in construction supervision of major tunnelling projects (Road/Rail/Metro)  < 7 years - 0  7 years - 7 marks  Add 1.5 marks extra for each additional year of experience subject to maximum 3 (three) marks.		Total Professional experience in handling major tunnelling projects < 10 years - 0 10 years - 7 marks Add 1.5 marks extra for each additional year of experience subject to maximum 3 (three) marks.	Auequacy for the Froject  Total Experience  <15 years - 0 marks  15 years - 4 marks  Add 0.5 mark extra for each additional year of experience subject to maximum 1 (one) marks	Adamsov for the Project	ii) Post graduate or chartered engineer in Civil/Mining Engineering or equivalent	General Qualification		Description	Resident Engineer cum Tunnel Excavation Expert
el Engineer /Tu on Engineer /I above.	ne input of the		100	υ	v,	10	10	10	10	10	10	5	70	4	25		Maximum marks	
nnel Excavati Project Manag	personnel is 1				(Sr.No.15,	(Sr.No. 6,11,12)	(Sr.No. 5,8,10,13)	(Sr.No. 6,9,10,12)	>10 yrs	>10 yrs	>12 yrs	30 yrs, 10 months		M.Tech (Building Science & Tech)		Details	M/s ICT in JV AIA	
ion Engineer. ger.	not < 12 months (t		89	0	4	9	10	10	10	10	10	5	68	0	21	Marks awarded	Γ in JV with AIA	1
	2 months (unless specified). be considered for evaluation.			since 2008	3 projects 3, 4, 5	3 projects 6, 7, 9	2 Projects 8,12, 13 &16	4 projects 6,8,9 & 13	<7 yrs 3,4,5,6 & 8	<5 yrs 6,&7	<10 yrs 3,4,5,6 &7	<30 yrs				Details	M/s I Infrastri Services with Segi	
	n P		95	5	5	9	10	10	10	10	10	5	69	0	21	Marks awarded	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in	2
						(Sr.No. 6,8,9)	(Sr.No. 6,8,9)	(Sr.No. 6,9)	9 yrs	9 yrs	>12 yrs	34 yrs				Details	M/s RITES Ltd. in association with Space Engineering Consortium	S.
			82	0	0	9	9	∞	10	10	10	5	61	0	21	Marks awarded	ES Ltd. in ion with gineering rtium	



	Total:		< 1 year - 0 marks 3 1 year - 3 marks Add 0.5 marks for								· ·
			< 1 year - 0 marks 1 year - 3 marks Add 0.5 marks for each subsequent year subject to maximum 2 marks	(of length 40% of project length or more of similar configuration (2/4/o laning**) and above)  < 2 nos0 2 nos19 marks Add three marks extra for each additional project subject to maximum 6 (Six) marks. Experience in similar capacity of Highway Project of Construction/Construction Supervision/IC on EPC Mode (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above) I Project-4 marks Add 1 (one) mark extra for each additional project subject to maximum 1 (one) mark Employment with the Firm < 1 year - 0 marks 1 year - 3 marks Add 0.5 marks for each subsequent year subject to maximum 2 marks	Experience as Resident Engineer/Project Director/Project Manager/Superintending Engineer equivalent/Executive Engineer or equivalent on construction works/Authority Engineer /Independent Engineer Projects (similar configuration (2/4/6 laning*) and above).  5 years -0 5 years -15 marks Add 1 marks extra for each additional year of experience subject to maximum 5 (five) marks.  Experience in similar capacity in handling major 2/4/6-laning** projects (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above)  2 nos19 marks Add three marks extra for each additional project subject to maximum 6 (Six) marks.  Experience in similar capacity of Highway Project Construction/Construction Supervision/IC on EPC Mode (of length 40% of project-4 marks  Add 1 (one) mark extra for each additional project subject to maximum 1 (one mark  Employment with the Firm    Employment with the Firm   Capacity   Capacity	Total Professional Experience in handling Highway projects <12 years -0 12 years -16 marks Add   mark extra for each additional year of experience subject to maximum 4 (four) marks. Experience as Resident Engineer/Project Director/Project Manager/Superintending Engineer equivalent/Executive Engineer or equivalent on construction works/Authority Engineer /Independent Engineer Projects (similar configuration (2/4/6 laning*) and above). <5 years -15 marks Add   marks extra for each additional year of experience subject to maximum : ffixe) marks. Experience in similar capacity in handling major 2/4/6-laning** projects (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above) <2 nos19 marks Add three marks extra for each additional project subject to maximum 6 (Six) marks. Experience in similar capacity of Highway Project Construction/Construction Supervision/IC on EPC Mode (of length 40% project length or more of similar configuration (2/4/6 laning**) and above   Project-4 marks Add   (one) mark extra for each additional project subject to maximum   (or mark Employment with the Firm Employment with the Firm Engloyment subject to maximum 2 marks Add 0.5 marks for each subsequent year subject to maximum 2 marks	Experience  ional Experience in handling Highway projects  marks  xtra for each additional year of experience subject to maximu  xtra for each additional year of experience subject to maximu  s Resident Engineer/Project Director/Project  perintending Engineer equivalent/Executive Engineer or  construction works/Authority Engineer /Independent  jects (similar configuration (2/4/6 laning*) and above).  arks  extra for each additional year of experience subject to maximu  n similar capacity in handling major 2/4/6-laning** project % of project length or more of similar configuration (2/4/ d above)  rks  rks extra for each additional project subject to maximum 6 (S  in similar capacity of Highway Project //Construction Supervision/IC on EPC Mode (of length 40 h or more of similar configuration (2/4/6 laning**) and al  narks  nark extra for each additional project subject to maximum 1  with the Firm  arks  s for each subsequent year subject to maximum 2 marks  s for each subsequent year subject to maximum 2 marks	ii) Oraduate in Civil Engineering iii) Post Graduation in Transportation/Highway Engineering/Structural Engineering/Geotechnical Engineering or equivalent  Adequacy for the Project Professional Experience Total Professional Experience in handling Highway projects <12 years -0 12 years -16 marks Add 1 mark extra for each additional year of experience subject to maximu (four) marks.  Experience as Resident Engineer/Project Director/Project Manager/Superintending Engineer equivalent/Executive Engineer or equivalent on construction works/Authority Engineer /Independent Engineer Projects (similar configuration (2/4/6 laning*) and above). <5 years -0 5 years -15 marks Syears -15 marks extra for each additional year of experience subject to maximu (five) marks.  Experience in similar capacity in handling major 2/4/6-laning** project (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above) < nos0 2 nos19 marks Add three marks extra for each additional project subject to maximum 6 (S marks).  Experience in similar capacity of Highway Project Construction/Construction Supervision/IC on EPC Mode (of length 40 project length or more of similar configuration (2/4/6 laning**) and at 1 Project -4 marks Add 1 (one) mark extra for each additional project subject to maximum 1 laning* 1 year -0 marks 1 year -0 marks 1 year -0 marks 2 nos. or each subsequent year subject to maximum 2 marks 3 narks for each subsequent year subject to maximum 2 marks 4 dod 0.5 marks for each subsequent year subject to maximum 2 marks 5 narks 6 narks 7 year -0 marks 8 narks 8 narks for each subsequent year subject to maximum 2 marks 8 narks 8 narks for each subsequent year subject to maximum 1 marks 8 narks for each subsequent year subject to maximum 2 marks 8 narks 8 narks for each subsequent year subject to maximum 2 marks 9 narks 9 nar	Civil Engineering Civil Engineering Ation in Transportation/Highway Engineering/Structural ation in Transportation/Highway Engineering/Structural isotechnical Engineering or equivalent  r the Project Experience  Experience  ional Experience in handling Highway projects  marks  rarks  Resident Engineer/Project Director/Project  s Resident Engineer equivalent/Executive Engineer or construction works/Authority Engineer /Independent  jects (similar configuration (2/4/6 laning*) and above).  arks  extra for each additional year of experience subject to maximus similar capacity in handling major 2/4/6-laning** project  % of project length or more of similar configuration (2/4/6 dabove)  in similar capacity of Highway Project //Construction Supervision/IC on EPC Mode (of length 4/6 hor more of similar configuration (2/4/6 laning**) and all arks  mark extra for each additional project subject to maximum 1 arks  mark extra for each additional project subject to maximum 1 arks  so for each subsequent year subject to maximum 2 marks  so for each subsequent year subject to maximum 2 marks	Civil Engineering ation in Transportation/Highway Engineering/Structural beotechnical Engineering or equivalent rethe Project Experience ional Experience in handling Highway projects marks xtra for each additional year of experience subject to maximu s Resident Engineer/Project Director/Project perintending Engineer equivalent/Executive Engineer or t construction works/Authority Engineer/Independent jects (similar configuration (2/4/6 laning*) and above).  arks extra for each additional year of experience subject to maximu n similar capacity in handling major 2/4/6-laning** proje % of project length or more of similar configuration (2/4/ d above)  rks rks extra for each additional project subject to maximum 6 (S rks extra for each additional project subject to maximum 6 (S rks extra for each additional project subject to maximum 6 (S rks extra for each additional project subject to maximum 1 arks mark extra for each additional project subject to maximum 1 arks safes extra for each additional project subject to maximum 1 arks safes extra for each additional project subject to maximum 1 arks safes extra for each additional project subject to maximum 1	Description  Civil Engineering ation in Transportation/Highway Engineering/Structural rethe Project Experience ional Experience in handling Highway projects marks stra for each additional year of experience subject to maximu xtra for each additional year of experience subject to maximu xtra for each additional year of experience subject to maximu stra for each additional year of experience subject to maximu stra for each additional year of experience subject to maximu n construction works/Authority Engineer /Independent pjects (similar capacity in handling major 2/4/6-laning*) and above).  arks extra for each additional year of similar configuration (2/4/6 d above)  in similar capacity in handling major 2/4/6-laning** project //Construction Supervision/IC on EPC Mode (of length 4/6) h or more of similar configuration (2/4/6 laning**) and at arks mark extra for each additional project subject to maximum 1  with the Firm  with the Firm  signer capacity of maximum 2 marks for each subsequent year subject to maximum 1
		rks	on (2/4/6  um 6 (Six)  Project of ngth 40% of and above)  imum 1 (one)	maximum 5 * projects	eer or	naximum 4 eer or	naximum 4	ral naximum 4 eer or	ral naximum 4 eer or	or kinum 4	or ximum 4
100		On .		25	20 1					Tr.	
			4,6,7,8 (TL) Sr.no. 4,,8 (TL)	Sr.no.	10 yrs, 2 months	33 yrs, 4 months months 10 yrs, 2 months	months months months	33 yrs, 4 months 10 yrs, 2 months	33 yrs, 4 months 10 yrs, 2 months		Q
100		Si	5	25	20	20	20	70 20 20	25 21 4 70 20 20	Marks Awarded  25 21 4 70 20	F in JV with AIA  Marks Awarded  25 21 4 70 20
		since 1999	Sr. no. 3, 4, 5, 7, 8  2 projects Sl. No. 2 & 5  since 1999	2,3,4,5 &6  2,3,4,5 &6  <4 projects <5 pro 3 4 5	<10 yrs	< 12 yrs <10 yrs	< 12 yrs	< 12 yrs	< 12 yrs	Details < 12 yrs < 10 yrs	M/s Ircon Infrastructure & Services Ltd in JV with Details Marks Awarded  70  <12 yrs 20
	96	S	ν, ν,	25	OC.	20	20		70 20 20		con cture & in JV with Marks Awarded  21 0 20 20
STATES OF THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND			Sr.no. 3,8	10 yrs, 9m Sr.no. 5,6,7,9	CONT.	29 yrs	29 yrs	Only Diploma holder 29 yrs	Only Diploma holder 29 yrs	Details  Only Diploma holder  29 yrs	M/s RITES Ltd. in association with Space Engineering Details Marks Awardee  Only Diploma 0 holder 0 70 29 yrs 20
-	0	0	0 5	20	200	20	20	70 20	0 0 70 20	Marks Awarded  0 0 0 20	S Ltd. in on with ineering Marks Awarded 0 0 0 20

# Note:- Max Age = 65 Years

- (1) Similar Capacity includes the following positions
  i) On behalf of Consultant: Resident / Highway Engineer
  ii) On behalf of Contractor: Resident Engineer/ Highway Engineer / Project Manager (Construction/Construction Supervision)
  iii) In Government Organizations: Executive Engineer (or equivalent) and above
- (2) Only those projects (in numbers) will be considered for evaluation above, where the input of the personnel is not < 12 months.
- (3) In case of experience on behalf of Authority's Engineer or Contractor, the experience shall be duly endorsed by the respective Government agency. In case of non-availability of endorsement from Govt. Agency, the experience uploaded on INFRACON Portal will be taken into consideration. However, the key personnel/ bidder will be solely responsible for any fake information/ CV, which may result in debarment.



	3	с. П	o	b. iii)	ь ::	b. i)	a iii)	a. II)	a. i)	2 /	<u></u>	_		Sl. No.	
Total:	Employment with the Firm < 1 year - 0 marks 1 year - 3 marks 1 year - 3 marks Add 0.5 marks for each subsequent year subject to maximum 2 marks	Experience in design tunnel projects(Road/Rail/Metro) apart from those under 2 (b) (ii)  1 project - 4 marks  2 or more projects - 5 marks	Experience in innovation tunnel design (Road/Rail/Metro) like immersed tunnel / sub-sea bored tunnel / high altitude tunnels (more than 2500 M above msl.  1 projects - 4 marks 2 or more projects - 5 marks	Experience in similar capacity in construction/construction supervision projects involving design/design review of tunnels of tunnels of more than 4 km length (Min. 1 year experience in project)  <2 projects - 0 2 projects - 7 marks Add 1.5 mark extra for each additional projects subject to maximum 3(three) marks.	Experience in similar capacity in Project Preparation/DPR involving design of tunnels (Road/Rail/Metro) of more than 4 km length (Min. 1 year experience in a project)  < 3 projects - 0 3 projects - 11 marks Add 1 mark extra for each additional projects subject to maximum 4 (four) marks.	Experience in Similar Capacity Experience in tunnel design (Road/Rail/Metro) works in similar capacity <12 years - 0 12 years - 7 marks Add 1 mark extra for each additional year of experience subject to maximum 3 (three) marks.	Total Professional International Experience in handling major tunnel projects <5 years - 0 marks 5 years - 8 marks Add 1 mark extra for each additional year of experience subject to maximum 2 (two) marks.	Total Professional Experience in handling major tunnel projects <12 years - 0 12 years - 7 marks Add 1 mark extra for each additional year of experience subject to maximum 3 (three) marks.	Total Professional Experience  20 years - 0 marks 20 years - 4 marks 20 years - 4 marks Add 0.5 mark extra for each additional year of experience subject to maximum 1 (one) marks	Adequacy for the Project	ii) Post Graduation in Design/Structural Engineering or equivalent	General Qualification	Name of the Key personnel	Description	Tunnel Design Engineer
100	O.	S	2	10	15	10	10		5	70	4	25		Max. Makrs	
		Sr.no. 6,45	Sr.no. 24,40	Sr.no. 21,36,43,4 9	Sr.no. 23,24(FS), 46,47 (FS), 48,50,51,5	>17 yrs	>7yıs	>16 yrs	35 yrs, 10months				Details	M/s ICT	
90	0	S	5	10		10	10	10	S	69	0	21	Marks Awarded	M/s ICT in JV with AIA	-
	since 1999	Project 4 & 17	Sl no. 8, 13	3 projects 6, 9& 12	<7 projects 5,8,10,11,13,14,15 & 16	<15 yrs 4,5,8, 10, 11, 12, 13 & 14	5.2 yrs Project 2	<15 yrs 2,4,5,8 &10	< 20 yrs				Details	& Services Ltd in JV with Segmental in	
92.5	O.	5	5	8.5s	. 15	10	, œ	10	5	66.5	0	:	Marks Awarded	astructure .td in JV ental in	
		Sr no. 17	Sr no. 7,19	Sr.no. 13(TL),16(TE),18 (TL)	Sr.no. 5,7(TE),13,19,24 (TL)	>17yrs (Exp of TL cum Sr tunnel expert also considered)		18угѕ	35 yrs, 2 months				Details	association with Space Engineering Consortium	
81.5	5	4	ن.	8.5	13	10	C		5	55.5	0	21	Marks Awarded	S Ltd. in with Space Consortium	

Max Age =65 Years

Only those projects (in numbers) will be considered for evaluation above, where the input of the personnel is not < 6 months (unless specified)

- Similar Capacity:

  (i) On the behalf of Consultant/Contractor: Tunnel Design Engineer/Tunnel Designer

  (ii) In Government Organizations: Superintendent Engineer (or equivalent) and above



<sup>\*\*</sup> tunnel projects, unless specifically mentioned, has to be major tunnels of length equal to or more than 1.5 Km to be considered for evaluation

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	3	b. ii)	b. i)	b.	a. iii)	a. ii)	a.i)	2		-		SI. No.		
Total:	Employment with the Firm < 1 year - 0 marks 1 year - 3 marks Add 0.5 marks for each subsequent year subject to maximum 2 marks	Experience in similar capacity of Tunnel Safety Audits in design stage on tunnel projects (Road/Rail/Metro)  1 project - 8 marks  2 or more - 10 marks	Experience in similar capacity of Tunnel Safety Audits during construction stage of tunnel projects (Road/Rail/Metro) of minimum length of 4 km < 2 projects - 0 2 projects - 15 marks Add 1.25 mark extra for each additional projects subject to maximum 5 (five) marks	Experience in Similar Capacity	International exposure in tunnel safety works <7 years - 0 7 years - 7 marks Add 1 mark extra for each additional projects subject to maximum 3 (three) marks	Experience Tunnel (Road/Rail/Metro) Safety Works <10 years - 0 10 years - 11 marks Add 1 mark extra for each additional year of experience subject to maximum 4 (four) marks.	Total Professional Experience  <20 years - 0  20 years - 11 marks  Add 1 mark extra for each additional year of experience subject to maximum 4 (four) marks.	Adequacy for the Project	ii) Any professional Certification from a recognized/statutory body on safety/health/shot firer	General Qualification		Description	Tunnel Safety Expert	
100	5	10	20		10	15	15	70	4 2	25		Yes/No		
		Sr.no. 10,18	Sr.no. 7,13,25			17yrs, 8months Sr. no. 7,10,13,18,22,28 (has worked as safety expert and tunnel engineer)	37yrs, 6months				Details	M/s ICT in JV with AIA	1	
80.75	3.5	10	16.25		0	15	15	56.25	0	21	Marks Awarded	with AIA		
	Since 2019	<3 projects 5,6 & 7	3 projects 3, 9 & 11		Z	< 14 yrs 3,4,5,6,7 7 9	25 yrs				Details	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM	2	
80.25	3	10	16.25		0	15	15	56.25	0 !	21	Marks Awarded	ture & n JV with al in with NM		
		Sr.no. 4	Sr.no. 4,5,8			>15 yrs	25yrs				Details	M/s RI association Eng		
0		∞	16.25		0	15	5	54.25	0 !	21	Marks Awarded	M/s RITES Ltd. in association with Space Engineering Consortium	သ	

Only those projects (in numbers) will be considered for evaluation above, where the input of the personnel is not < 12 months (unless specified)

\*\* tunnel projects, unless specifically mentioned, has to be major tunnels of length equal to or more than 1.5 Km to be considered for evaluation

- Similar capacity:

  (i) On the behalf of Consultant/Contractor: Tunnel Safety Engineer/Tunnel Safety Expert

  (ii) In Government Organizations: Superintendent Engineer (or equivalent) and above



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	Senior Geotechnical Expert				2			G
			M/s ICT in	I in JV with AIA	M/s Ircon Infrastructure & Services Ltd in JV with	astructure & in JV with	M/s RIT	M/s RITES Ltd. in association with Space
SI. No.	Description	Yes/No			Segmental in association with NM Engg Consultancy	sociation with onsultancy	Engi Con	Engineering Consortium
	Name of Key Personnel		Details	Marks Awarded	Details	Marks Awarded	Details	Marks Awarded
1		25		25		21	_	21
	<ul> <li>i) Graduate in Civil Engineering/ Masters in engineering Geology or equivalent from a recognized university</li> </ul>	21		21		21		21
	ii) Post Graduate in Rock Mechanics /Foundation Engineering/ Tunnel Engineering	4		4		0		0
2	Adequacy for the Project	70		54		63		57
a. i)		15	26 yrs	15			31yrs	15
	20 years - 11 marks  Add 1 mark extra for each additional year of experience subject to maximum 4  (four) marks.				< 25 yrs	15		Politika phonocologica and and
a. ii)		10	10yrs	7	<13 yrs 2,4,5,6,8,9,10,11,12 & 13	10	13yrs, 5 months	10
b.	Experience in similar capacity							
b. i)		25	Sr.no.2,3,5,7 ,13	19	6 projects 2,6,9,11, 12, 14 & 15	23	Sr.no.7,8,1 0,12,13	19
	4 projects -17 marks Add 2 mark extra for each additional project subject to maximum 8 (eight) marks.						-	
b. ii)	Experience as Geotechnical engineer or similar capacity in Construction/ Construction Supervision of major tunnel projects involving vertical shaft sinking of at least 200m vertical depth  1 project - 4 marks 2 or more projects - 5 marks	5		0	1	0		0
b. iii)	Experience as Geotechnical engineer or similar capacity in design/project preparation of tunnel projects(Road/Rail/Metro) of atleast 4 km length < 2 projects - 0 2 projects - 11 marks Add 2 marks extra for each additional projects subject to maximum 4 (four) marks.	15	Sr.no.1,4,6	13	3 projects 5, 8, 10 & 13	15	Sr.no2,6,1	13
w	Employment with the Firm < 1 year - 0 marks 1 year - 3 marks Add 0.5 marks for each subsequent year subject to maximum 2 marks	5		0	since 1992	Us.		5
	Total:	100		79		89		83
	x Age =65 Years							
			•					

Only those projects (in numbers) will be considered for evaluation above, where the input of the personnel is not < 12 months (unless specified)

\*\* tunnel projects, unless specifically mentioned, has to be major tunnels of length equal to or more than 1.5 Km to be considered for evaluation

Similar Capacity:

(i) On the behalf of Consultant/Contractor: Senior Geotechnical Engineer

(ii) In Government Organizations: Superintendent Engineer (or equivalent) and above



	အ	b. iii)	b. ii)	b. i)	ф	a. ii)	a. i)	2		_	T	No.	Jall
Total:	Employment with the Firm < 1 year - 0 >1 year to 2 years - 2 marks >2 years to 3 years - 3 marks > 3 years - 5 marks	Experience in similar capacity in tunnel construction/construction supervision (Road/Rail/Metro) in Himalayan Geology with minimum length of 4 km < 2 projects - 0 2 project - 7 marks Add 1.5 marks extra for each additional projects subject to maximum 3 (three) marks.	Experience in similar capacity in project preparation/DPR/Geophysical investigations involving of major tunnel projects (Road/Rail/Metro). (Min 1 year experience in a project)  2 projects - 0  2 projects - 7 marks  Add 1.5 marks extra for each additional projects subject to maximum 3 (three) marks.		Experience in Similar Capacity	Experience in major Tunnel construction/construction supervision Projects (Road/Rail/Metro/Hydro) using NATM technology < 5 years - 0 5 years - 12 marks Add 1.5 marks extra for each additional year subject to maximum 3 (three) marks.	Total Professional Experience   <20 years - 0   20 years - 15 marks   Add   mark extra for each additional year of experience subject   to maximum 5 (five) marks.	Adequacy for the Project	i) Masters in Geology /Applied Geology/Engineering Geology from recognized university or equivalent y	General Qualification		Description	Senior Geologist
100	Si	10	10	15		15	20	70	25	25		Yes/No	
		Sr.no.9,11	Sr.no.4,7,1 0	Hyrs, 3months		11yrs, 3months	24yrs				Details	M/s ICT	
89.5	0	7	8.5	15		15	19	64.5	25	25	Marks Awarded	M/s ICT in JV with AIA	1
	since 2016	3 projects SI No. 4,5 & 8	3 projects Sl. No. 3,8, 10	<13 yrs Sl. No. 2,4,5,6		<8 yrs Sl. No. 2,4,5,6	22 yrs				Details	M/s Ircon Infrastructure & Services Ltd in JV with Segmental in association with NM Engg Consultancy	2
89	0	8.5	8.5	15		15	17	64	25	25	Marks Awarded	rcon Infrastructure vices Ltd in JV with iental in association with NM Engg Consultancy	,,
		Sr.no.4,14	Sr.no.7 (FS),16,18	10yrs,2mths		10yrs,2mths	23yrs				Details	M/s RITES Ltd. in association with Space Engineering Consortium	3
92	5	7	7	15		15	18	62	25	25	Details	S Ltd. in with Space sering rtium	

Max Age =65 Years

Only those projects (in numbers) will be considered for evaluation above, where the input of the personnel is not < 12 months (unless specified)

- Similar Capacity:

  (i) On the behalf of Consultant/Contractor: Senior Geologist

  (ii) In Government Organizations: Superintendent Engineer (or equivalent) and above

<sup>\*\*</sup> tunnel projects, unless specifically mentioned, has to be major tunnels of length equal to or more than 1.5 Km to be considered for evaluation

Senior (	Senior Quality cum Material Expert			1		2	ω	
SI. No.	Description		M/s ICT	M/s ICT in JV with	M/s Ircon	rcon Infrastructure	M/s RITES Ltd. in	L Ltc
		Max.		AIA	& Service with Se	& Services Ltd in JV with Segmental in	association with Space Engineering	ring
	Name of Key Personnel	Marks	Details	Marks Awarded	Details	Marks Awarded	Details	Marks Awarded
-	General Qualification	25		21		21		
	I) Graduate in Civil Engineering	21		21		21		
	II) Post Graduation in Geotechnical Engineering/ Foundation Engineering/ Soil Mechanics/ Rock Mechanics	4	Master of Engg. (CIVIL) specilaisati on not mentioned	0		0		
2	Adequacy for the Project	70		70		70		
.i)	Total Professional Experience in handling Highway/Bridge/Tunnel projects < 10 years -0 10 years -11 Add one mark extra for each additional year of experience subject to maximum 4 (four) marks.	15	26угs	15	21 угs	15	23yrs,8mths	
E	Experience in similar capacity in Construction / Construction Supervision of major Highway/Tunnel Projects ((similar configuration (2/4/6 laning**) and above)) < 5 years -0; 5 years -19 Add 2 (two) marks extra for each additional year of experience subject to maximum 6 (Six) marks.	25	>9угs	25	<10 yrs SI. No. 1,3, 4, 5 &6	25	>9yrs	25
	Experience in similar capacity in handling Similar Highway/Tunnel projects (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above) < 2 nos0 2 nos25 Add 2.5 marks extra for each additional project subject to maximum 5 (five) marks.	30	r.no.1,2,3,4,	30	Sr. no. 1,2,3,4 & 5	30	Sr.no.5,6,8,9	30
ယ	Employment with the Firm < 1 year - 0 marks 1 year - 3 marks	υ		0	since 2004	5		
	Add 0.5 marks for each subsequent year subject to maximum 2 marks  Total:	100		91		96		95
	Max Age =65 Years							



SI. No. 3 E) Ξ: 2 I project - 4 marks
2 or more projects - 5 marks.
Employment with the Firm
< 1 year - 0 marks
1 year - 3 marks
Add 0.5 marks for each subse Contract Management of a large highway/tunnel contract say over 150 crore including experience of handling variation orders, claims the contractor and there appropriate disposal < 2 nos. - 0 Total Professional Experience in Contract Management
<15 years - 0
15 years - 15 marks
Add 1 mark extra for each additional year of experience subject to maxim 5 (five) marks. Max Age = 65 Years

Only those projects (in numbers) will be considered for evaluation above, where the input of the personnel is not < 12 months (unless specified) Experience as Contract Highway/Tunnel projects < 4 years - 0 Experience of Handling Arbitration project 4 years - 15 marks Add 1 mark extra for each additional year of experience subject 2 nos. - 20
Add 2.5 mark extra for each additional project 5 (five) marks. Adequacy for the Project Graduate in Civil Engineering course in contract manage ii) Post Graduate Degree in Law/ PG in management/ certificate course management/ certificate course in construction management / certificate General Qualification Senior Contract Specialist

Description Name of Key Personnel Specialist cases in respect of any highway on any to Rs Max. Marks 100 25 20 70 2 25 Sr.no.10,14 .no.5,6,7,1 M/s ICT in JV with AIA >10yrs 35yrs Marks Awarded 96 25 20 20 70 Infrastructure &
Services Ltd in JV with
Segmental in
association with NM
Details
Marks
Awarded 2 projects Sr. No. 3, 4 5 projects 3,4,5,6 & 7 more than 10 yrs 19 yrs M/s Ircon 95 25 20 69 19 0 M/s RITES Ltd. in association with Space Engineering Consortium Sr.no.10,14,19 Sr.no.15,19 >10yrs Marks Awarded 22.5 93.5 67.5 20 21 0

