



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport and Highways, Government of India)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली - 110 075 • G-5 & 6, Sector-10, Dwarka, New Delhi-110075
NHA/11012/JH/IE/ Mehgama-Hansdiha NH-133/2022/E-12071925074200

27 March, 2023

To,
All Applicant Firms

Sub: Independent Engineer services for Four Laning of Mehgama Hansdiha section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Jharkhand on Hybrid Annuity mode- **Result of Technical Evaluation-reg.**

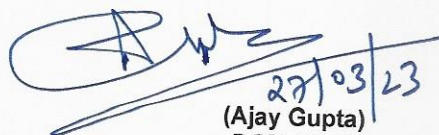
Tender ID: 2022_NHA_103702_1

Sir,

Please refer to your RFP submission on 06.04.2022 for the captioned assignment. In this context the committee found following firms/consultants qualified as responsive/non-responsive after Technical Evaluation:-

S. No.	Description	Relevant experience f or the assign- ment	Experience in use of tech- nology for road in spection	Qualifications and competence o f the key staff for t he assignment	Total
	Firm	40	20	40	100
1.	M/s Chaitanya Projects Consultancy Pvt. L td. In Association with Transtek Engineers & Services Private Limited	Non-Responsive as the bidder is not qualifying in the minimum eligibility criteria as p er Clause 15 (A) of Section I of RFP			
2.	M/s Dhruv Consultancy Services Ltd. Asso ciate with M/s SPECTRUM Techno Consu ltants Pvt. Ltd.	Non-Responsive as the bidder does not full fill the eligibility criteria of technical capa city under Clause 15 (C) Section I of RFP			
3.	M/s Feedback Infra Private Limited In Ass ociation with ARMENGE Engineering and Management Consultants Pvt Ltd.	Non-Responsive as the firm has been debarred from participating in future projects of NHIDCL/MoRT&H either directly or indirectly vide letter no. NHIDCL/Ladakh/K-Z/ DPR/2020-21/1214 dated 13.03.2023.			
4.	M/s FP India Project Management Consult ancy Services Pvt. Ltd. in Association with M/s Indian Engineering Consultants India Pvt. Ltd.	32.00	18.00	35.64	85.64 (Responsive)
5.	M/s Global Infra Solutions in JV with Artefa ct Projects Ltd. in Association with MS Co nsultant	37.50	20.00	36.21	93.71 (Responsive)
6.	M/s ISAN Corporation in JV with Geo Desi gns and Research Pvt. Ltd.	Non-Responsive as the firm has been debarred by Competent Authority for one year f rom engagement in National Highway projects either directly or indirectly vide letter no. NHA/PC/ Sagarmala/2018/PC01/ Pkg1/E-118132/412 dated 26.09.2022			
7.	M/s L N Malviya Infra Projects Pvt. Ltd. in Association with Intratech Civil Solutions & Consultant	39.00	20.00	35.60	94.60 (Responsive)
8.	M/s Marc Technocrats Private Limited in J V with Almondz Global Infra Consultant Lt d.	35.00	20.00	35.21	90.21 (Responsive)
9.	M/s MSV International INC. in Association with MSV International Tech Pvt. Ltd	Non-Responsive as the bidder does not full fill the eligibility criteria of technical capaci ty under Clause 15 (C) Section I of RFP			
10.	M/s TPF ENGINEERING Pvt. Ltd. in Asso ciation with MAV Associates LLP	33.00	20.00	32.04	85.04 (Responsive)
11.	M/s Voyants Solutions Pvt. Ltd. in JV with G-ENG Advisory Services Pvt. Ltd. in Ass ociation with NU-Infra Engineering Pvt. Ltd	40.00	20.00	35.72	95.72 (Responsive)

2. All bidders are requested to respond within 07 days (i.e. by 31.03.2023) in case they have any objections to the above.


 27/03/23
 (Ajay Gupta)
 DGM-(T)-JH

Encl- Detailed Technical Evaluation

Independent Engineer services for four building from km 218.500 (Kilopari) to km 239.640 (Yajalungu) on NH-75 (Section-V) in the state of Jharkhand on BANI

Minimum Eligibility Criteria for the Firm

Applicant	Name of Firm	Solid JV/ Association	Population of DP/PS (NH&M/Urban)				Project Supervision/FC (NH&M/Urban)				Annual Turnover				Technical Capacity	Eligibility
			If the bidder is also applicant	If the bidder is in JV for road	If the firm is under partner in the	If the firm is in JV for new firm as a whole	If the bidder is also applicant	If the bidder is in JV for	If the firm is under partner in the	If the firm is in JV for new firm as a whole	If the bidder is also applicant	If the bidder is in JV for	If the firm is under partner in the	If the bidder is also applicant		
			Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km	Maximum experience of preparation of DP/PS & submission of tender for project of length equal to or more than 10.00 km
1/11	Global Infra Solution in JV with Venture Architect Projects Ltd. in Association with NIS Consultant	JV	N/A	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Eligible
3/11	BAARC Technologies Private Limited in JV with Anand Chahal Infra Consultants Ltd	JV	N/A	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Eligible
4/11	Vysani Solution Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association with NIS Consultant	JV	N/A	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Eligible
5/11	Chandray Project Chandray Private Limited in Association with Transact Engineers & Services Pvt. Ltd.	Association	No	N/A	N/A	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Not Eligible
6/11	M/S. Dany Conduity Services Ltd. in Association with M/S. SPECTRUM Techno Conduity Pvt. Ltd.	Association	Yes	N/A	N/A	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Not Eligible
8/11	PP Infra Project Management Conduity Services Pvt. Ltd. in Association with NIS Consultant	Association	Yes	N/A	N/A	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Eligible
9/11	L.S. Mishra Infra Project Pvt. Ltd. in Association with Transact Conduity & Conduity	Association	Yes	N/A	N/A	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Eligible
10/11	M/S. International Inc. in Association with M/S. International Tech Pvt. Ltd.	Association	Yes	N/A	N/A	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Not Eligible
11/11	TTF Engineering Pvt. Ltd. in Association with M/S. Associates LLP	Association	Yes	N/A	N/A	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Eligible

Average Annual Turnover

Independent Engineer services for Four Lining of Mehgama Hansdha section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Jharkhand on Hybrid Annuity mode

Average annual turnover from consultancy services after following enhancement factor

One Year Prior to RFP		2019-20											1.5	1.75	2	
Two Year Prior to RFP		2018-19											EPC*2%		2%+EPC*1 %	2%+EPC*1 %+1% of EPC
Three Year Prior to RFP		2017-18											EPC	18.56	27.83	37.11
S.No.	Name of Consultancy Firm/Entity (Sole Bidder/Bidder in JV)	Sole/JV/ Association													Last 5 Years Average	Eligible or Not-Eligible
1/11	Global Infra Solutions in JV with Venture Artefact Projects Ltd. in Association with MS Consultant	JV	JV	29.02	32.87	35.85	45.32	48.28	38.27	Eligible						
			LM	6.01	11.31	13.29	13.42	16.19	12.04							
			OM	23.01	21.56	22.56	31.90	32.09	26.22							
3/11	MARC Technocrats Private Limited in JV with Almondz Global Infra Consultants Ltd.	JV	JV	28.65	43.78	54.92	50.98	43.81	44.43	Eligible						
			LM	13.45	18.39	19.03	16.70	18.44	17.20							
			OM	15.21	25.38	35.89	34.28	25.37	27.22							
4/11	Voyants Solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association with NU-Infra Engineering Pvt. Ltd.	JV	JV	91.08	100.56	111.11	118.48	121.61	108.57	Eligible						
			LM	84.17	91.00	97.01	102.36	101.03	95.11							
			OM	6.91	9.56	14.10	16.12	20.59	13.45							
5/11	Chaityanya Projects Consultancy Private Limited in Association with Transtek Engineers & Services Pvt. Ltd.	Association	Association	16.62	26.39	50.87	51.31	50.64	39.17	Eligible						
6/11	M/s. Dhruv Consultancy Services Ltd. In Associate with M/s. SPECTRUM Techno Consultants Pvt. Ltd.	Association	Association	30.44	43.39	56.11	48.74	59.76	47.69	Eligible						
8/11	FP India Project Management Consultancy Services Pvt. Ltd. in Association with M/s IECI Pvt. Ltd.	Association	Association	43.55	51.30	52.18	57.96	59.92	52.98	Eligible						
9/11	LN Malviya Infra Projects Pvt. Ltd. in Association with Intratech Civil Solutions & Consultant	Association	Association	62.96	71.41	97.38	129.80	194.14	111.14	Eligible						
10/11	MSV International INC. in Association with MSV International Tech Pvt. Ltd.	Association	Association	67.81	82.02	91.27	114.39	123.23	95.74	Eligible						
11/11	TPF Engineering Pvt. Ltd. in Association with MAV Associates LLP	Association	Association	30.88	45.55	59.12	89.72	68.06	58.67	Eligible						

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Name of the Project

Independent Engineer services for Four Laning of Mehgama Hansidha section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Karnataka on Hybrid Annuity mode

S.No.	Name of the Applicants	Consultancy Turnover for Fee Share 2018-19 to 2020-21 Last 3 Years (%) for the JV Partners	Average Annual Turnover for 2018-19 to 2020-21 Last 3 Years (from Consultancy work)	Weighted average of turnover of JV in last 3 FY (from Consultancy work)	No. of Key professionals on full time rolls (Minimum from last one year)	Weighted average no. of Key Professionals on full time rolls (Min from last one year with JV)	Max. no. of projects to be allotted to one particular consultant including ongoing projects at a time in NHAI				Maximum no. of projects in one financial year				Total Ongoing/awarded Projects Nos.				Weighted Average of Ongoing Projects (Nos)	Projects awarded in Current Financial Year (nos) out of Col. (5)				Weighted Average of Projects awarded in Current FY (Nos)	Remaining capacity for projects (Nos) in Current Financial Year	Whether Eligible		
							3 A	3 B	3 C	4 A	4 B	4 C	Total	DPR	IE/AV/SC (Cap of 25% of 3B)	Total	DPR	IE/AV/SC (Cap of 25% of 3B)		Total	DPR	IE/AV/SC (Cap of 25% of 3B)	Total				DPR	IE/AV/SC (Cap of 25% of 3B)
			1		2																							
1/11	Global Infra Solutions in JV with Venture Artefact Projects Ltd. in Association with MS Consultant	51	14.30	21.43	40	34.12	12	12	9	3	3	2	1.76	2.11	1.35	1.08	0.69	0.00	0	0	0.00	0.00	0.00	0.00	0.00	3.00	2.00	Yes
	Global Infra Solutions	49	28.85	NA	28	NA	12	12	9	3	3	2	3.46	2.11	1.35	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	3.0	2.0	Yes
	Artefact Projects Ltd. in Association with Almondz Global Infra Consultants Ltd.	51	18	24.81	28	NA	12	12	9	3	3	2	0	0	-	NA	NA	0.00	0	-	NA	NA	0.00	0.00	NA	3	2.00	Yes
3/11	MARC Technocrats Private Limited	49	32	NA	14	21.14	6	6	4	2	2	1	2.14	0.00	0.51	1.40	0.74	0.00	0	0	0.00	0.00	0.00	0.00	0.00	2	1	Yes
	Almondz Global Infra Consultants Ltd.	NA	18	NA	28	NA	12	12	9	3	3	2	0.51	2.85	0.98	NA	NA	0.00	0	0	0	0	0	0	NA	3	2	Yes
	Voyants Solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association	52	100	60.20	43	53	25	25	18	6	6	4	3.83	2.85	0.98	NA	NA	0.00	0	0	0	0	0	0	NA	2	1	Yes
4/11	Voyants Solutions Pvt. Ltd.	48	17	NA	63	NA	25	25	18	6	6	4	5.69	1.30	6.41	1.37	4.32	0.00	0	0	0.00	0.00	0.00	0.00	0.00	6	4.0	Yes
	G-Eng Advisory Services Pvt. Ltd.	NA	16.93	NA	43	NA	25	25	18	6	6	4	7.71	1.45	2.06	NA	NA	0.00	0	0	0.00	0.00	0.00	0.00	NA	6	4.0	Yes
	Chattanya Projects Consultancy Private Limited in Association with Transak Engineers & Services Pvt. Ltd.	NA	50.94	NA	65	NA	25	25	18	6	6	4	10.60	0.00	10.60	NA	NA	1.00	1.00	0.00	0.00	0.00	0.00	0.00	NA	5	4.00	Yes
5/11	M/s. Divur Consultancy Services Ltd. In Association with M/s SPECTRUM Techno Consultants Pvt. Ltd.	NA	54.87	NA	24	NA	6	6	4	2	2	1	16.4	2.60	13.80	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	-10	-10	No
8/11	HP India Project Management Consultancy Services Pvt. Ltd. in Association with M/s IECI Pvt. Ltd.	NA	56.68	NA	42	NA	25	25	18	6	6	4	12.91	6.40	6.51	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	6	4	Yes
9/11	LN Malviya Infra Projects Pvt. Ltd. in Association with Intarech Civil Solutions & Consultant	NA	140.44	NA	64	NA	40	40	30	10	10	8	24.21	3.35	20.86	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	10	8	Yes
10/11	MSV International INC. in Association with M/V Engineering Tech Pvt. Ltd.	NA	109.63	NA	21	NA	6	6	4	2	2	1	23.5	6.00	17.50	NA	NA	2.00	0.00	2.00	2.00	2.00	2.00	2.00	NA	-18	-14	No
11/11	ITF Engineering Pvt. Ltd. in Association with M/V Associates LLP	NA	72.30	NA	46	NA	25	25	18	6	6	4	4.5	0.95	3.55	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	6	4	Yes

Independent Engineer services for Power Lineing of Mithamun Hamudha section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Jharkhand on Hybrid Annuity mode

S. No.	Description	Max. Marks	Name of firms															
			Global Infra Solutions in JV with Venture Assisted Projects Ltd. in Association with MS Consultant	MARC Technocrats Private Limited in JV with Almond Global Infra Consultants Ltd.	Vorant Solutions Pvt. Ltd. in JV with G-Tag Advisory Services Pvt. Ltd. in Association with VCLMRA Engineering Pvt. Ltd.	M/s. Divya Consultancy Services Ltd. in Association with MS Consultant Pvt. Ltd.	FP India Project Management Consultancy Services Pvt. Ltd. in Association with M/s ECI	EN Mahy's Infra Projects Pvt. Ltd. in Association with Intratech Civil Solutions & Consultant	MSV International INC. in Association with MSV International Tech Pvt. Ltd.	TFP Engineering Pvt. Ltd. in Association with MNAV Associates LLP								
1	Average Annual Turnover (last 5 years) from consultancy business (Min 5 Crores)		Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed
	< 2% of TPC - 0 marks																	
	2% of TPC - 1.5 marks	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Add for additional turnover 0.25 (Zero point two five) marks for every 1% of TPC above 2% of TPC subject to maximum 0.5 marks.																	
2	Number of key personnel*																	
	*The professionals who possess degree in Civil Engineering/Transport Planning/Transport Economics/Trade Management/Geology/Environmental Science/Information Technology and 8 years experience in highway/bridge/tunnel with employment in the firm for more than one year. The current Employment Certificate shall be updated by Key Personnel on IVERACON.	10	10	10	10	10	10	10	9	10	10	10	10	10	9	10	10	10
	<10.0 marks																	
	10.01 - 8 marks																	
	>8 but <10.0 marks																	
3	Experience as Independent Engineer/ Authority 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 - 3 marks	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11.0
	Add 1 (one) mark extra for completed assignment of similar project and add 0.5 (zero point five) mark extra for completed assignment of supervision consultancy subject to maximum 3 (three) marks.																	
4	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 - 4 marks	6	6	6	6	6	6	6	5.5	6	5.5	6	6	6	4	6	6	6
	Add 0.5 (Zero point five) marks extra for each additional project subject to maximum 1 marks																	
5	In hand DPRs of Highway/Bridge/Tunnel Projects (<2.0 marks	6	6	4	6	4	6	6	0	6	0	6	6	6	0	6	6	0
	2.5 - 4 marks																	
	>5-6 marks																	
6	Experience in Construction Supervision/DPR/Design Review of major structures having length of more than 500 meters in last 7 years.																	
	1 project - 2.0 marks	4	4	3.5	4	3	4	4	4	4	2.5	4	2.5	4	3	4	2	4
	Add 0.5 (Zero point five) marks extra for each additional project subject to maximum 2.0 marks.																	
	Total	40	40	37.5	40	35	40	40	40	31	40	32.00	40	39	40	29	40	33

Independent Engineer services for Four Laning of Mahaganga Hansdisha section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Jharkhand on Hybrid Annuity mode

Evaluation sheet for assessment of experience in use of technology for road inspection

S.No.	Description	Maximum Point	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed
1	Experience in Network Survey Vehicle (NSV) or better technology for pavement inspection	5																
	(a) Equipment on MOU with Associate or on hiring basis- 4 (b) Own Equipment - 4																	
1.1	(a) Experience of 1 - 2 projects - 1 (b) Experience of 3-5 projects - 2 (c) Experience of > 5 projects - 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.2	(a) Experience of 1 - 2 projects - 1 (b) Experience of 3-5 projects - 2 (c) Experience of > 5 projects - 3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	Experience in Falling Weight Deflectometer (FWD) or better technology for pavement strength measurement	4																
	(a) Equipment on MOU with Associate or on hiring basis- 2 (b) Own Equipment - 2																	
2.1	(a) Experience of 1 - 3 projects - 1 (b) Experience > 3 projects - 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2.2	(a) Experience of 1 - 3 projects - 1 (b) Experience > 3 projects - 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	Experience in Mobile Bridge Inspection Unit or better technology for Bridges inspection	4																
	(a) Equipment on MOU with Associate or on hiring basis- 2 (b) Own Equipment - 2																	
3.1	(a) Experience of 1 - 2 projects - 1 (b) Experience of 3-5 projects - 2 (c) Experience of > 5 projects - 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4	Experience in Retro reflectometer technology	4																
	(a) Equipment on MOU with Associate or on hiring basis- 2 (b) Own Equipment - 2																	
4.1	(a) Experience of 1 - 3 projects - 1 (b) Experience > 3 projects - 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4.2	(a) Experience of 1 - 3 projects - 1 (b) Experience > 3 projects - 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	Experience in Automatic Traffic Counter cum Classifier (ATCC)	3																
5.1	(a) Equipment on MOU with Associate or on hiring basis- 2 (b) Own Equipment - 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5.2	(a) Experience of 1 - 3 projects - 0.5 (b) Experience > 3 projects - 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Total	20	20	20	20	20	20	20	20	20	20	20	20	18	20	20	20	20

Independent Engineer services for Feat Lining of Marigamam Handla section of NH 131 from existing Km 41.300 to existing Km 93.000 in the State of Karnataka on Hybrid Annuity model

S. No.	Description	Summary of Qualification and experience of the key staff for the assignment										MARC Technocrats Private Limited in JV with Almonds Global Infra Consultants Ltd.										Vopants Solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association with										FP India Project Management Consultancy Services Pvt. Ltd. in Association with MIA IECI										LTA Maratha Infra Projects Pvt. Ltd. in Association with Interact Civil Solutions & Consultant										TPT Engineering Pvt. Ltd. in Association with NAY Associates LLP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		Max. Marks		Project Ltd. in Association with MS Consultant		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC		MARC			

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Independent Engineer services for Four Lining of Mehgama Hansdha section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Jharkhand on Hybrid Annuity mode

Evaluation Criteria for assessment of score of Key Staff for adequacy of the Assignment.

Name of Firms

3.1 Team Leader cum Senior Highway Engineer			Name of firms																
Sl. No.	Description	Max. Marks	Global Infra Solutions in JV with Venture Architect Projects Ltd. in Association with MS Consultant		MAARC Technocrats Private Limited in JV with Almondz Global Infra Consultants Ltd.		Voyants Solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association with NU-Infra Engineering Pvt. Ltd.		Chattraya Projects Consultancy Private Limited in Association with Transtek Engineers & Services Pvt. Ltd.		M/s. Dhruv Consultancy Services Ltd. in Associate with M/s. SPECTRUM Techno Consultants Pvt. Ltd.		FP India Project Management Consultancy Services Pvt. Ltd. in Association with M/s. SNNV/ASAN KRISHNA		MSV International INC. in Association with MSV International Tech Pvt. Ltd.		TFE Engineering Pvt. Ltd. in Association with MAV Associates LLP		
			Bali Mukund Singh Marks		Shalendra Kumar Singh Marks		Pranod Kumar Verma Marks		Mallard Sri Rao Marks		A B Reddy Marks		Ravi Nath Singh Marks		Ashish Sharma Marks		Shiv Shankar Singh Marks		
Team Leader Cum Senior Highway Engineer																			
General Qualification			Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	
1	I) Graduate in Civil Engineering	25	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
II)	Post Graduation in Management /Construction/ Transportation/Highway Engineering/Structural Engineering or	3			3	0	4	4	3	0			3	0	4	0			
III)	Degree/Diploma/Certificate in Project Management	1			1	0			1	1			1	1					
2	Adequacy for the Project	70																	
I)	Total Professional Experience in handling Highway projects																		
	< 12 years	- 8																	
	12 years	- 0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	Add 1 mark extra for each additional year of experience subject to maximum 2 (two) marks.																		
II)	Experience as Team Leader or similar capacity in Highway Development Projects (similar configuration (2/4/6 laning***) and above)																		
	< 5 years	- 0	15	15	15	11	15	15	15	15	15	15	15	15	15	15	15	15	
	5 years	- 11																	
	Add 1 mark extra for each additional year of experience subject to maximum 4 (four) marks.																		
III)	Experience as Team Leader or similar capacity in Highway Development Projects (of Length 40 % of Project Length or of similar configuration (4/6 laning***) and above) on PPP																		
	< 1 Project - 0 marks	5	5	5	5	5	5	4	5	5	5	5	4	4	5	5	5	0	
	1 Project - 4 marks																		
	add 1 mark extra for additional projects subject to maximum 1 (one) marks																		
b)	Experience as Team Leader or similar capacity of Project Preparation including Design of Major Highway Projects (of Length 40 % of Project Length or of similar configuration (2/4/6 laning***) and above)	15	15	13	15	11	15	13	11	11	13	11	11	15	13	15	11	15	
	< 2 Projects - 0																		
	2 Projects - 11																		
	Add 2 marks extra for each additional project subject to maximum 4 marks.																		
c)	Experience in position of Team Leader/Project Manager or similar capacity in construction supervision/IC involving length 40 % of Project Length or of similar configuration (2/4/6 laning***) and	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
	< 2 Projects-0																		
	2 Projects-16																		
	Add 2 marks extra for each additional project subject to maximum 4 marks.																		
d)	Experience as Team Leader or similar capacity in Operation and Maintenance of Major Highway projects (of length 40% of project length or more of similar configuration (2/4/6 laning***)	5	5	5	4	5	4	5	5	5	4	0	4	4	5	4	4	5	
	1 project - 4 marks																		
	Add 1 mark extra for each additional project subject to maximum 1 (one) marks																		
3 Employment with the Firm																			
	< 1 Year	- 0																	
	1 Year	- 3	5	0											5	5			
	Add 0.5 marks for each subsequent year subject to maximum 2 marks																		
Total:		100	91.00	89.00	95.00	82.00	95.00	91.00	91.00	88.00	88.00	78.00	91.00	91.00	94.00	88.00	99.00	91.00	86.00

Evaluation Criteria for assessment of score of Key Staff for adequacy of the Assignment.

3.2	Resident Cum Highway Engineer	Max. Marks	Name of firms																	
S. No.	Description		Global Infra Solutions in JV with Venture Artefact Projects Ltd. in Association with MS Consultant			MARCTechnocrats Private Limited in JV with Almondz Global Infra Consultants Ltd.			Voyants Solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association with NU-Infra Engineering Pvt. Ltd.			FP India Project Management Consultancy Services Pvt. Ltd. in Association with M/s IECI Pvt. Ltd.			LN Matviya Infra Projects Pvt. Ltd. in Association with Intratech Civil Solutions & Consultant			TPF Engineering Pvt. Ltd. in Association with MAV Associates LLP		
			Bijendra Kumar Singh			Rajeev Kumar			Vikash Kumar Pathak			Bijay Kumar Mishra			B. P. Singh			Manoranjan Kumar Pandey		
			Marks			Marks			Marks			Marks			Marks			Marks		
	Resident cum Highway Engineer 1		Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed		
1	General Qualification	25																		
	I) Graduate in Civil Engineering	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
	II) Post Graduation in Transportation/Highway Engineering/Structural Engineering/Geotechnical Engineering	4																		
2	Adequacy for the Project	70																		
a)	Professional Experience in Bridge Projects:																			
i)	Total Professional Experience in handling Highway projects																			
	< 10 years	- 0	20	20	20	20	20	20	20	20	20	18	20	20	20	20	20	20		
	10 years	-16																		
	Add 1 mark extra for each additional completed year of experience subject to maximum 4 (four) marks.																			
ii)	Experience as Resident Engineer/Project Director/Project Manager/Superintending Engineer or equivalent/Executive Engineer or equivalent on construction works/Independent Engineer Projects (similar configuration (2/4/6 laning*) and above).	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	18		
	< 5 years	-0																		
	5 years	-16																		
	Add 1 marks extra for each additional year of experience subject to maximum 4 (four) marks.																			
iii)	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)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
	< 2 nos -0																			
	2 nos -19																			
	Add 3 marks extra for each additional project subject to maximum 6 (Six) marks.																			
iv)	Experience in similar capacity of Highway Project of Construction/Construction Supervision/IC on PPP Mode (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above)	5	5	5	5	5	5	5	5	5	4	2.5	5	0	5	5	5	5		
	1 Project- 2.5 marks																			
	Add 2.5 (two point five) mark extra for each additional project subject to maximum 5 (five) mark																			
3	Employment with the Firm	5	4	4																
	< 1 year -0																			
	1 year or more -3																			
	Add 0.5 marks for each subsequent year subject to maximum 2 marks																			
	Total:	100	95	95	91	91	91	91	90	86.5	91	86	91	89						

Independent Engineer services for Four Lining of Mehgama Hansdha section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Jharkhand on Hybrid Annuity mode

3.3 Bridge/Structural Engineer
Evaluation Criteria for assessment of score of Key Staff for adequacy of the Assignment.

S. No.	Description	Max. Marks	Name of Firms											
			Global Infra Solutions in JV with Venture Artefact Projects Ltd. in Association with MIS		MAIRC Technocrats Private Limited in JV with Almondz Global Infra Consultants Ltd.		Voyants Solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association		JP India Project Management Consultancy Services Pvt. Ltd. in Association with M/s IECI Pvt. Ltd.		LN Matiya Infra Projects Pvt. Ltd. in Association with Intratech Civil		TPF Engineering Pvt. Ltd. in Association with MAV Associates LLP	
			Shaifulla A. M		Brind Lal Yadav		Mekaroti Suresh Babu		Ramesh Kumar		Jagadeesh Goru		Dhananjai Kumar Rai	
			Marks		Marks		Marks		Marks		Marks		Marks	
			Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed
1	General Qualification	25												
	I) Graduate in Civil Engineering	21	21	21	21	21	21	21	21	21	21	21	21	21
	II) Post Graduation in Structural Engineering	4					4	0						
2	Adequacy for the Project	70												
i)	Total Professional Experience in handling Highway/ Bridge projects													
	< 10 years -0	15	15	15	15	15	15	15	15	15	15	15	15	15
	10 years -11													
	Add one marks extra for each additional completed 2 year subject to maximum 4 (four) marks.													
ii)	Experience in similar capacity in Design/Construction/Construction supervision of Bridges/ROB/Flyover/Interchanges / any other such structures (similar configuration (2/4/6 Lanning**) and above)	20	19	19	20	20	20	20	20	20	20	20	20	20
	< 5 years -0													
	5 years -16													
	Add 1 mark extra for each additional year of experience subject to maximum 4 (four) marks.													
iii)	Experience in similar capacity in supervision of Major Highway Bridges/ROB/Flyover/ Interchanges/ any other structures	20	20	20	20	20	20	20	20	20	20	20	20	20
	< 2 bridges -0													
	2 bridges -16													
	Add 2 (two) marks extra for each additional project subject to maximum 4 marks.													
iv)	Experience in similar capacity in supervision of Rehabilitation and repair of major Bridge/ROB/Flyover / Interchanges / any other structures	10	10	10	10	10	10	10	10	10	10	10	10	10
	< 2 - 0													
	2 nos - 07													
	3 or more - 10													
v)	Experience in similar capacity of modern bridge construction technology viz. precast segmental, balanced cantilever construction, Extradosed Bridge, Full span Launching, Incremental Launching.	5	5	5	5	5	5	5	5	5	5	5	5	5
	Experience in 1 project - 4													
	More than one project -5 marks													
3	Employment with the Firm													
	< 1 year -0													
	1 year or more -3	5	0						5	4.5				
	Add 0.5 marks for each subsequent year subject to maximum 2 marks													
	Total:	100	90	90	91	91	95	91	96	95.5	91	91	91	91

Independent Engineer services for Four Lining of Metgama Hansadlla section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Jharkhand on Hybrid Annuity mode

Evaluation Criteria for assessment of score of Key Staff for adequacy of the Assignment.

S. No.	Description	Max. Marks	Name of firms											
			Global Infra Solutions in JV with Venture Artefact Projects Ltd. in MS Association with MS Sanjay Thakur		MARC Technocrats Private Limited in JV with Almond Global Infra Consultants Ltd. Sanjay Nayan		Voyants Solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association with Ranjit Kumar Mishra		FP India Project Management Consultancy Services Pvt. Ltd. in Association with M/s IECI Vinod Gautam		LN Malviya Infra Projects Pvt. Ltd. in Association with Intratech Civil Solutions Shiv Kishore Sharma		TPF Engineering Pvt. Ltd. in Association with MAV Associates LLP Pranjali Hatimora	
			Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed
3.4	Senior Pavement Specialist													
1	General Qualification	25												
	i) Graduate in Civil Engineering	21	21	21	21	21	21	21	21	21	21	21	21	21
	ii) Post Graduation in Transportation/ Highway Engineering/ Pavement engineering or equivalent	4	0										4	0
2	Adequacy for the Project	70												
	i) Professional Experience													
	Total Professional Experience of Pavement Design / Construction and Maintenance of Highways/ Roads/ Air Field Runway													
	< 10 years	20	20	20	20	20	20	20	18	16	20	20	20	20
	10 years	-16												
	Add one mark extra for each additional year of experience subject to maximum 4 (four) marks.													
	ii) Experience in Similar Capacity in Construction/ Construction Supervision of 2/4/6-laning** of major Highway Projects (similar configuration (2/4/6 laning*) and above)													
	< 5 years	20	20	20	20	20	20	20	20	20	20	20	20	20
	5 years	-16												
	Add one mark extra for each additional year of experience subject to maximum 4 (four) marks.													
	iii) Experience in similar capacity as Pavement/Geo-technical Engineer in construction/ construction supervision of Major Highway projects (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above)	20	20	20	20	20	20	20	20	20	20	20	20	20
	> 2 nos-0													
	2 nos-16													
	Add 2 (two) mark extra for each additional project subject to maximum 4 marks.													
	iv) Experience in similar capacity on major Highway projects (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above) in innovative/traditional technology and design	5	5	5	5	5	5	5	4	4	5	0	5	5
	1 Project- 4 marks													
	Add 1 (one) mark extra for each additional project subject to maximum 1 (one) mark													
	v) Experience in similar capacity on PPP Projects (of length 40% of project length or more of similar configuration (2/4/6 laning**) and above)													
	1 Project- 2.5 marks	5	2.5	2.5	5	2.5	5	5	5	0	5	5	5	5
	Add 2.5 mark extra for each additional project subject to maximum 5 (five) mark													
3	Employment with the Firm	5	0											
	< 1 year													
	1 year -3													
	Add 0.5 marks for each subsequent year subject to maximum 2 marks													
Total		100	88.5	88.5	91	88.5	91	91	88	81	91	86	95	91

Evaluation Criteria for assessment of score of Key Staff for adequacy of the Assignment.

3.5 Senior Quality/Material Expert		Max. Marks											
S. No.	Description	Name of firms						Name of firms					
1	Senior Quality/Material Expert	Global Infra solutions in JV with Venture Artefact Projects Ltd. in Association with MS Consultant		MARC Technocrats Private limited in JV with Almondz Global Infra Consultants Ltd.		Voyants solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association with NU-Infra Engineering Pvt. Ltd.		FP India Project Management Consultancy Services Pvt. Ltd. in Association with M/s IECI Pvt. Ltd.		LN Mahiya Infra Projects Pvt. Ltd. in Association with Intratech Civil Solutions & Consultant		TPF Engineering Pvt. Ltd. in Association with MAV Associates LLP	
		Abhay Kumar Singh	Marks	Om Prakash Gupta	Marks	Jagati Kishore Palai	Marks	Manoj Kumar	Marks	Arvind Kumar Mishra	Marks	Nirajan Kumar	Marks
1	General Qualification	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed
		21	21	21	21	21	21	21	21	21	21	21	21
1	Graduate in Civil Engineering	0											
2	Adequacy for the Project												
a)	Professional Experience												
i)	Total Professional Experience in handling highway/Bridge Projects												
ii)	Experience in similar capacity in Construction/Construction Supervision of Highway Projects (of similar configuration (2/4/6 lane***) and above)												
iii)	Experience in similar capacity in handling Similar Highway projects (of length 40% of project length or more of similar configuration (2/4/6 lane***) and above)												
iv)	Experience in similar capacity on major Highway projects (of length 40% of project length or more of similar configuration (2/4/6 lane***) and above) in innovative/traditional technology												
3	Employment with the Firm												
Total:	100	92.5	92	91	91	91	91	91	91	91	91	91	91

Independent Engineer services for Four Laning of Melkenna Hanuadha section of NH 133 from existing Km 41.900 to existing Km 93.000 in the State of Jharkhand on Hybrid Annuity mode

Evaluation Criteria for assessment of score of Key Staff for adequacy of the Assignment

3.6 Road Safety Expert		Name of firms													
S. No.	Description	Max. Marks	Global Infra Solutions in JV with Venture Artefact Projects Ltd. in Association with MRC Arvind Kumar		MARC Technocrats Private Limited in JV with Almondz Global Infra Pvt. Ltd. in Association with Vinod Sharma		Voyants solutions Pvt. Ltd. in JV with G-Eng Advisory Services Pvt. Ltd. in Association with Randhise		FP India Project Management Consultancy Services Pvt. Ltd. in Association with M.L. IECI Lakshmi Janardanan		LN Malviya Infra Projects Pvt. Ltd. in Association with Intratech Civil Solutions & Consultants Sourindra Rout		TFF Engineering Pvt. Ltd. in Association with MAW Associates LLP Raman Ranjan Dash		
	Road safety Expert		Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	Claimed by Bidder	Assessed	
1	General Qualification	25													
	i) Graduate in Civil Engineering	21	21	21	21	21	21	21	21	21	21	21	21	0	
	ii) Post Graduation in Traffic/ Transportation/Safety Engineering or equivalent	4	4	0	4	4	4	0	4	4					
2	Adequacy for the Project	70													
	a) Professional Experience														
	i) Total Professional Experience in handling Highway/Bridge projects														
	< 10 years -0	15	12.5	12	15	15	15	0	15	15	15	15	15	0	
	10 years -11														
	Add one mark extra for each additional year of experience subject to maximum 4 (four) marks.														
	ii) Experience in similar capacity in Road Safety works on major Highway Project (similar configuration (2/4/6 laning*) and above.	15	15	14	15	12	15	13	15	13	15	15	15	0	
	< 5 years -0														
	5 years -11														
	Add one mark extra for each additional year of experience subject to maximum 4 (four) marks.														
	iii) Experience in similar capacity in Road Safety Audits of 2/4/6-laning** Highway projects at different stages including at least one at design stage	20	20	20	20	20	20	20	20	20	20	20	20	0	
	> 2 nos - 0														
	2 nos -16														
	Add 2(two) marks extra for each additional project subject to maximum 4 marks.														
	iv) Experience in similar capacity in identification and improvement of black spots on major Highway Project (similar configuration (2/4/6 laning*) and above)	10	10	10	10	10	10	10	10	0	10	9	10	0	
	< 2 nos - 0														
	2 nos - 7														
	Add 1 (one) marks extra for each additional project subject to maximum 3 (three) marks														
	v) Experience in similar capacity of preparing Road Safety Management Plans for Inner Urban Highway	5	5	5	5	5	5	5	5	4	5	5	5	0	
	1 project -4 marks														
	2 or more -5 marks														
	vi) Experience in similar capacity in field of Road Safety Management Plan	5	5	5	5	5	5	5	5	5	5	5	5	0	
	1 project -4 marks														
	2 or more -5 marks														
	3 Employment with the Firm														
	< 1 year -0	5	3	3					5	5	5	5			
	1 year -3														
	Add 0.5 marks for each subsequent year subject to maximum 2 marks														
	Total:	100	95.5	90	95	92	95	74	100	87	96	95	91	0	

42