



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सडक परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
NATIONAL HIGHWAYS AUTHORITY OF INDIA
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS, GOVT. OF INDIA)



BHARATMALA
ROAD TO PROSPERITY

परियोजना निदेशक कार्यालय, परियोजना कार्यान्वयन इकाई

201ई/ऐ, द्वितीय तल, डी-21, कॉर्पोरेट पार्क, (नजदीक द्वारका सेक्टर-8 मेट्रो स्टेशन) सेक्टर-21, द्वारका, नई दिल्ली-110075

OFFICE OF THE PROJECT DIRECTOR, PROJECT IMPLEMENTATION UNIT

201E/A, Second Floor, D21, Corporate Park (Near Dwarka Sector- 8 Metro Station), Sector-21, Dwarka New Delhi-110075

दूरभाष/Phone No. : +91-9717892100, +91-9717623100 ईमेल/E-mail : piudwarka@nhai.org, piudwarka@gmail.com

On NHAI E-Tender website

Date: 08.10.2020

PIU/DWE/20/03/ 1808

To

All the bidders (as per list below)

Sub: Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi- **Result of Technical Evaluation.**

Ref: NHAI/PIU/DWE/20/03 dated 19.08.2020

Sir,

Please refer your bids in reference to aforesaid RFP. The technical evaluation of your proposal, has been carried out and the technical score summary is as follows.

S. No.	Name of the Consultancy Firm	Technical Score	Remarks
	Max Marks	100	
1	M/s Casta Engineers Pvt Ltd in JV with M/s Hexa Co and association with M/s Nokang Infra Pvt. Ltd.	-	Non-Responsive (CV of Team Leader scores less than 75 marks)
2	AECOM ASIA COMPANY Limited and association with M/s G Eng Advisory Services Private Limited	94.34	Responsive (Tech. score is more than 75)
3	TPF GETINSA EUROESTUDIOS, S.L. and association with Segmental Consulting & Infrastructure Advisory Pvt. Ltd.	61.93	Non-Responsive (Tech. score is less than 75)
4	Altinok Musavirlik Muhendislik A.S. (Altinok Consulting Engineering Inc.) in JV with INTERCONTINENTAL CONSULTANTS AND TECHNOCRATS PVT. LTD.	86.32	Responsive (Tech. score is more than 75)
5	SUBTERRA Engineering India Private Limited in JV with SUBTERRA INGENIERIA S. L. and association with Agnitio Infrastructure Projects Pvt. Ltd.	-	Not-eligible (Does not satisfy min. eligibility criteria)
6	SOWIL Limited in JV with Dair Ingenieros and association with Zoma Engineers	-	Not-eligible (Does not satisfy min. eligibility criteria)

मुख्यालय : जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110075

Head Office : Plot No. : G-5 & 6, Sector-10, Dwarka, New Delhi-110075 Website : <http://www.nhai.org>

7	Monarch Surveyors and Engineering Consultants Pvt Ltd in JV with RODIC CONSULTANTS PVT. LTD.	76.57	Responsive (Tech. score is more than 75.)
8	SMEC International Pty. Ltd. and association with Anandjiwala Technical Consultancy	85.58	Responsive (Tech. score is more than 75)

(Detailed break up is enclosed)

You may respond within 7 days through e-mail on piudwarka@nhai.org/
piudwarka@gmail.com in case of any objection.

Yours sincerely,

Encl: As above

(Nirman K Jambhulkar)
GM (T)/Project Director

Copy to:

1. M/s Casta Engineers Pvt Ltd in JV with M/s Hexa Co and association with M/s Nokang Infra Pvt. Ltd.
2. AECOM ASIA COMPANY Limited and association with M/s G Eng Advisory Services Private Limited
3. TPF GETINSA EUROESTUDIOS, S.L. and association with Segmental Consulting & Infrastructure Advisory Pvt. Ltd.
4. Altinok Musavirlik Muhendislik A.S. (Altinok Consulting Engineering Inc.) in JV with INTERCONTINENTAL CONSULTANTS AND TECHNOCRATS PVT. LTD.
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**Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for
Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi
internal roads in the State of Delhi**

Second Stage Technical Evaluation

Summary of Technical Support

Company Name	Firm's Relevant Experience in the Last 7 Years (Max. Points 40)	Material testing, survey & investigation, equipment, and software proposed to be used (Max. points 20)	Qualification and Relevant experience of the proposed key personnel (Max. points 40)	Total (Max. Points 100)
Casta Engineers Pvt Ltd	26	15.25	T.L. failed	
AECOM ASIA COMPANY Limited	39	18.75	36.59	94.34
TPF GETINSA EUROESTUDIOS, S.L.	25	6	30.93	61.93
Altinok Musavirlik Muhendislik A.S. (Altinok Consulting Engineering Inc.)	40	16	30.32	86.32
SUBTERRA Engineering India Private Limited	Min. eligibility not met therefore, further not evaluated			
SOWil Limited	Min. eligibility not met therefore, further not evaluated			
Monarch Surveyors and Engineering Consultants Pvt Ltd	31.5	18	27.07	76.57
SMEC International Pty. Ltd.	38	12	35.58	85.58

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Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi

Firm's Relevant Experience in the Last 7 Years

Summary of Technical Support

Company Name	Aggregate Length of DPR / Feasibility study of tunnel (Road/ rail/ Metro project) (Max. 8 point)	DPR for projects each having a Road/ Rail/ Metro tunnel equal to or more than of 2.0 km length (Max. 7 point)	DPR of Bridge having length more than 200 m (Max. points 5)	Specific experience of firms in terms of turnover last 5 years (Max. points 5)	DPR for special category projects (Special bridges/ tunnels or expressways, whichever applicable). DPR of number of 2/4/6/8 lane road tunnels of atleast 2 km (Max. points 5)	Highway Professionals * working with the firm (Max. points 10)	TOTAL (Max 40 points)
Casta Engineers Pvt Ltd	8 (more than 12 Km)	0 (0 projects)	5	4 (8.95 Cr.)	0 (0 projects)	9 (25 professionals with the lead member)	26
AECOM ASIA COMPANY Limited	8 (more than 12 Km)	7 (more than 3 projects)	5	5 (2985 Cr.)	4 (4 projects)	10 (38 professionals)	39
TPF GETINSA EUROSTUDIOS, S.L.	8 (more than 12 Km)	7 (3 projects)	5	5 (390.85 Cr.)	0 (zero road projects)	0 (34 professionals shown but infracon id not mentioned) *	25
Altinok Musavirlik Muhendislik A.S. (Altinok Consulting Engineering Inc.)	8 (more than 12 Km)	7 (more than 3 projects)	5	5 (102.46 Cr.)	5 (5 projects)	10 (32 professionals)	40
SUBTERRA Engineering India Private Limited	Min. eligibility not met therefore, further not evaluated						
SOWIL Limited	Min. eligibility not met therefore, further not evaluated						
Monarch Surveyors and Engineering Consultants Pvt Ltd	7 (9.8275 Km)	5 (1 project)	5	4.5 (26.87 Cr.)	0 (zero road projects)	10 (52 key professionals)	31.5
SMEC International Pty. Ltd.	8 (more than 12 Km)	7 (3 projects)	5	5 (1606.45)	3 (3 projects)	10 (31 key professionals)	38

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Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi

Equipment and software

Summary Of Technical Support

Company Name	Availability of Material Testing Facilities with persons/resources having operational skills of the equipment (Max. points 3)	Availability of Field Investigation Facilities with persons/resources having operational skills of the equipment (Max. Points - 2)	Availability of Office Equipment and Software with persons/resources having operational skills of the equipment (Max. points 3)	Experience in LiDAR or better technology for topographic survey (Infrastructure sector) (Max. points 5)	Experience in using GPR and Induction Locator or better technologies for detection of sub-surface utilities (Infrastructure sector) (Max. Points 4)	Experience in digitization of cadastral maps for land surveys (Max. Points 3)	Total (Max. points 20)
Casta Engineers Pvt Ltd	2.25 (outsourced)	0	3 (in-house)	3	4	3	15.25
AECOM ASIA COMPANY Limited	2.25 (in-house with associate partner)	1.5 (in-house with associate partner)	3 (in-house)	5	4	3	18.75
TPF GETINSA	0	0	0	2	1	3	6
EUROSTUDIOS, S.L.							
Altinok Musavirlik Muhendislik A.S. (Altinok Consulting Engineering Inc.)	3 (in-house with other partner)	2 (in-house with other partner)	3 (in-house)	2 (2.25 projects)	3 (3.25 projects)	3	16
SUBTERRA Engineering India Private Limited	Min. eligibility not met therefore, further not evaluated						
SOWIL Limited	Min. eligibility not met therefore, further not evaluated						
Monarch Surveyors and Engineering Consultants Pvt Ltd	3 (in-house)	2 (in-house)	3 (in house)	3	4	3	18
SMEC International Pty. Ltd.	0	0	0	5	4	3	12

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Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi

Qualification and Competence of the Key Staff for the assignment

Name of Firm: M/s Casta Engineers Pvt Ltd in JV with M/s Hexa Co and association with M/s Nokang Infra Pvt. Ltd.

S.No.	Staff Position	Max. Marks	Marks obtained
1	Team Leader cum Senior Tunnel Expert	12	7.2 (marks less than 75 percent, hence CV of T.L. failed)
2	Tunnel Design Expert	10	not evaluated
3	Senior Geotechnical Engineer	10	not evaluated
4	Senior Geologist	8	not evaluated
	Total	40	

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M/s Casta Engineers Pvt Ltd in JV with M/s Hexa Co and association with M/s Nokang Infra Pvt. Ltd.

Team Leader cum Senior Tunnel Engineer (Abolghasem Parpinchi)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil Engineering/Tunnel Engineering / Mining Engineering		20	
ii)	Post Graduation in Civil Engineering /Tunnel Engineering/Mining Engineering		5	
II	Relevant Experience & Adequacy for the Project		65	25
a)	Total Professional Experience		10	9
	<20 years	0		
	20-25 years	8		
	>25-28 years	9		
	>28 years	10		
(b)	Experience in Tunnel Projects		32	16
	(i) Professional experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<12 years	0		
	>=12 – 14 years	6		
	>14 – 15 years	7		
	>15years	8		
	(ii) Experience in major tunnel construction/construction supervision projects ((Road/Rail/Metro)		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iii)Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	0
	<10 year	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iv) Experience in DPR preparation of minimum 5 km Tunnel length		8	0
	< 3 projects	0		
	3 or more projects	8		
c)	Experience in construction/construction supervision/ preparation of DPR/Feasibility report of major tunnel project (road/rail/metro)Using NATM		8	0
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
d)	Experience in Similar Capacity		15	0
	(i) Experience as Team Leader or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		7	0

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	=2 projects	5		
	= 3 to 5 projects	6		
	> 5 or more	7		
	(ii) Experience as Team Leader or similar capacity in preparation of DPR or Feasibility report of major tunnel project (road/rail/metro)		8	0
	=2 projects	6		
	= 3 to 5 projects	7		
	> 5 or more	8		
III	Employment with Firm		10	10
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	60

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Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi

Qualification and Competence of the Key Staff for the assignment

**Name of Firm: AECOM ASIA COMPANY
Limited and association with M/s G Eng Advisory Services Private Limited**

S.No.	Staff Position	Max. Marks	Marks obtained
1	Team Leader cum Senior Tunnel Expert	12	11.58
2	Tunnel Design Expert	10	8.35
3	Senior Geotechnical Engineer	10	9.3
4	Senior Geologist	8	7.36
	Total	40	36.59

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AECOM ASIA COMPANY Limited and association with M/s G Eng Advisory Services Private Limited

2.4.1 Team Leader cum Senior Tunnel Engineer (Ken Wing Kai Wong)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil Engineering/Tunnel Engineering / Mining Engineering		20	
ii)	Post Graduation in Civil Engineering /Tunnel Engineering/Mining Engineering		5	
II	Relevant Experience & Adequacy for the Project		65	63
a)	Total Professional Experience		10	10
	<20 years	0		
	20-25 years	8		
	>25-28 years	9		
	>28 years	10		
(b)	Experience in Tunnel Projects		32	31
	(i) Professional experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<12 years	0		
	>=12 – 14 years	6		
	>14 – 15 years	7		
	>15years	8		
	(ii) Experience in major tunnel construction/construction supervision projects ((Road/Rail/Metro)		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iii)Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	7
	<10 year	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iv) Experience in DPR preparation of minimum 5 km Tunnel length		8	8
	< 3 projects	0		
	3 or more projects	8		
c)	Experience in construction/construction supervision/ preparation of DPR/Feasibility report of major tunnel project (road/rail/metro)Using NATM		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
d)	Experience in Similar Capacity		15	14
	(i) Experience as Team Leader or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		7	7
	=2 projects	5		

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	= 3 to 5 projects	6		
	> 5 or more	7		
	(ii) Experience as Team Leader or similar capacity in preparation of DPR or Feasibility report of major tunnel project (road/rail/metro)		8	7
	=2 projects	6		
	= 3 to 5 projects	7		
	> 5 or more	8		
III	Employment with Firm		10	8.5
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	96.5

2.4.2 Tunnel Design Expert (Pughazendhi Ganesan)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil/ Mining Engineering		20	
ii)	Post Graduation in Design/Structural Engineering or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	50
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	24
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	16
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8

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	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Tunnel Design Engineer (Structural) of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Tunnel Design Engineer (Structural) of major tunnel for preparation of DPR projects (Road/Rail/Metro)		8	0
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience as Tunnel Design Engineer (Structural) in preparation of DPR/ Feasibility report of major tunnel projects (Road/Rail/Metro) using NATM		7	0
	< 3 projects	0		
	>=3-5 projects	6		
	5 or more projects	7		
III	Employment with Firm		10	8.5
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	83.5

2.4.3 Senior Geotechnical Engineer (Muralidharan Karuppiah)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil Engineering/Mining Engineering / Engineering Geology		20	
ii)	Post Graduation in Geotechnical Engineering /Foundation Engineering/Rock/Mechanics/Geo Science or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	58
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	24
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8

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	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	24
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Senior Geotechnical Engineer or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Senior Geotechnical Engineer or similar capacity in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience in construction/construction supervision/ preparation of DPR/feasibility report of major tunnel projects (Road/Rail/metro) using NATM		7	0
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	<8 years			
III	Employment with Firm		10	10
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			

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	Total		100	93
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1.4.4 Senior Geologist (Chander Shekhar Khokhar)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Post Graduate in Geology/ Related field		20	
ii)	Phd in Geology/ Related field		5	
II	Relevant Experience & Adequacy for the Project		65	62
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	23
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	7
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	29
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Senior Geologist or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		

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	>12 years	8		
	(iii) Experience as Senior Geologist or similar capacity in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	6
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience in construction/construction supervision/ preparation of DPR/feasibility report of major tunnel projects (Road/Rail/metro) using NATM		7	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	<8 years			
III	Employment with Firm		10	10
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	92

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Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi

Qualification and Competence of the Key Staff for the assignment

Name of Firm: TPF GETINSA

EUROESTUDIOS, S.L. and association with Segmental Consulting & Infrastructure Advisory Pvt. Ltd.

S.No.	Staff Position	Max. Marks	Marks obtained
1	Team Leader cum Senior Tunnel Expert	12	10.08
2	Tunnel Design Expert	10	7.4
3	Senior Geotechnical Engineer	10	7.45
4	Senior Geologist	8	6
	Total	40	30.93

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TPF GETINSA EUROESTUDIOS, S.L. and association with Segmental Consulting & Infrastructure Advisory Pvt. Ltd.

4.1 Team Leader cum Senior Tunnel Engineer (Satish Chander Sharma)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Degree in Civil Engineering/Tunnel Engineering / Mining Engineering		20	
ii)	Post Graduation in Civil Engineering /Tunnel Engineering/Mining Engineering		5	
II	Relevant Experience & Adequacy for the Project		65	63
a)	Total Professional Experience		10	10
	<20 years	0		
	20-25 years	8		
	>25-28 years	9		
	>28 years	10		
(b)	Experience in Tunnel Projects		32	32
	(i) Professional experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<12 years	0		
	>=12 – 14 years	6		
	>14 – 15 years	7		
	>15years	8		
	(ii) Experience in major tunnel construction/construction supervision projects ((Road/Rail/Metro)		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iii)Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iv) Experience in DPR preparation of minimum 5 km Tunnel length		8	8
	< 3 projects	0		
	3 or more projects	8		
c)	Experience in construction/construction supervision/ preparation of DPR/Feasibility report of major tunnel project (road/rail/metro)Using NATM		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
d)	Experience in Similar Capacity		15	14
	(i) Experience as Team Leader or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		7	6
	=2 projects	5		

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	= 3 to 5 projects	6		
	> 5 or more	7		
	(ii) Experience as Team Leader or similar capacity in preparation of DPR or Feasibility report of major tunnel project (road/rail/metro)		8	8
	=2 projects	6		
	= 3 to 5 projects	7		
	> 5 or more	8		
III	Employment with Firm		10	0
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	84

2.4.2 Tunnel Design Expert (Dr. Manoj Verman)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil/ Mining Engineering		20	
ii)	Post Graduation in Design/Structural Engineering or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	49
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	16
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	23
	(i) Professional Experience as Tunnel Design Engineer		8	8

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	(Structural)			
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Tunnel Design Engineer (Structural) of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Tunnel Design Engineer (Structural) of major tunnel for preparation of DPR projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience as Tunnel Design Engineer (Structural) in preparation of DPR/ Feasibility report of major tunnel projects (Road/Rail/Metro) using NATM		7	7
	< 3 projects	0		
	>=3-5 projects	6		
	5 or more projects	7		
III	Employment with Firm		10	0
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	74

2.4.3 Senior Geotechnical Engineer (Kinnar Kapoor))

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Degree in Civil Engineering/Mining Engineering / Engineering Geology		20	
ii)	Post Graduation in Geotechnical Engineering /Foundation Engineering/Rock/Mechanics/Geo Science or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	47
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	24

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	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	13
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	6
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Senior Geotechnical Engineer or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Senior Geotechnical Engineer or similar capacity in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	0
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience in construction/construction supervision/ preparation of DPR/feasibility report of major tunnel projects (Road/Rail/metro) using NATM		7	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	<8 years			
III	Employment with Firm		10	7.5
	Less than 1 Year	0		

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	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	74.5

1.4.4 Senior Geologist (Sanjip Das)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Post Graduate in Geology/ Related field		20	
ii)	Phd in Geology/ Related field		5	
II	Relevant Experience & Adequacy for the Project		65	47
a)	Total Professional Experience		10	9
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	15
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	7
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	23
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Senior Geologist or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0

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Sanjip

	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Senior Geologist or similar capacity in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience in construction/construction supervision/ preparation of DPR/feasibility report of major tunnel projects (Road/Rail/metro) using NATM		7	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	<8 years			
III	Employment with Firm		10	8
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	75

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Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi

Qualification and Competence of the Key Staff for the assignment

Name of Firm: Altinok Musavirlik Muhendislik A.S. (Altinok Consulting Engineering Inc.) in JV with INTERCONTINENTAL CONSULTANTS AND TECHNOCRATS PVT. LTD.

S.No.	Staff Position	Max. Marks	Marks obtained
1	Team Leader cum Senior Tunnel Expert	12	10.08
2	Tunnel Design Expert	10	7.8
3	Senior Geotechnical Engineer	10	5.8
4	Senior Geologist	8	5.92
	Total	40	29.60








Altinok Musavirlik Muhendislik A.S. (Altinok Consulting Engineering Inc.) in JV with INTERCONTINENTAL CONSULTANTS AND TECHNOCRATS PVT. LTD.

4.1 Team Leader cum Senior Tunnel Engineer (Keramettin Umit Akyuz)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Degree in Civil Engineering/Tunnel Engineering / Mining Engineering		20	
ii)	Post Graduation in Civil Engineering /Tunnel Engineering/Mining Engineering		5	
II	Relevant Experience & Adequacy for the Project		65	54
a)	Total Professional Experience		10	9
	<20 years	0		
	20-25 years	8		
	>25-28 years	9		
	>28 years	10		
(b)	Experience in Tunnel Projects		32	31
	(i) Professional experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<12 years	0		
	>=12 – 14 years	6		
	>14 – 15 years	7		
	>15years	8		
	(ii) Experience in major tunnel construction/construction supervision projects ((Road/Rail/Metro)		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iii)Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	7
	<10 year	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iv) Experience in DPR preparation of minimum 5 km Tunnel length		8	8
	< 3 projects	0		
	3 or more projects	8		
c)	Experience in construction/construction supervision/ preparation of DPR/Feasibility report of major tunnel project (road/rail/metro)Using NATM		8	0
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
d)	Experience in Similar Capacity		15	14
	(i) Experience as Team Leader or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		7	7
	=2 projects	5		

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	= 3 to 5 projects	6		
	> 5 or more	7		
	(ii) Experience as Team Leader or similar capacity in preparation of DPR or Feasibility report of major tunnel project (road/rail/metro)		8	7
	=2 projects	6		
	= 3 to 5 projects	7		
	> 5 or more	8		
III	Employment with Firm		10	10
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	84

2.4.2 Tunnel Design Expert (Serdar Yusuf Yilankiran)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Degree in Civil/ Mining Engineering		20	
ii)	Post Graduation in Design/Structural Engineering or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	48
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	16
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	22
	(i) Professional Experience as Tunnel Design Engineer		8	8

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Amir

	(Structural)			
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Tunnel Design Engineer (Structural) of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Tunnel Design Engineer (Structural) of major tunnel for preparation of DPR projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience as Tunnel Design Engineer (Structural) in preparation of DPR/ Feasibility report of major tunnel projects (Road/Rail/Metro) using NATM		7	6
	< 3 projects	0		
	>=3-5 projects	6		
	5 or more projects	7		
III	Employment with Firm		10	10
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	78

2.4.3 Senior Geotechnical Engineer (Pratul Kumar Choudhary)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil Engineering/Mining Engineering / Engineering Geology		20	
ii)	Post Graduation in Geotechnical Engineering /Foundation Engineering/Rock/Mechanics/Geo Science or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	33
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	8

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Pratul

	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	0
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	15
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Senior Geotechnical Engineer or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	0
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years8	8		
	(iii) Experience as Senior Geotechnical Engineer or similar capacity in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	0
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience in construction/construction supervision/ preparation of DPR/feasibility report of major tunnel projects (Road/Rail/metro) using NATM		7	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	<8 years			
III	Employment with Firm		10	0
	Less than 1 Year	0		

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	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	58

1.4.4 Senior Geologist (Satt Prakash)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Post Graduate in Geology/ Related field		20	
ii)	Phd in Geology/ Related field		5	
II	Relevant Experience & Adequacy for the Project		65	63
a)	Total Professional Experience		10	9
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	23
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	7
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	31
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Senior Geologist or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8

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	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Senior Geologist or similar capacity in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience in construction/construction supervision/ preparation of DPR/feasibility report of major tunnel projects (Road/Rail/metro) using NATM		7	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	<8 years			
III	Employment with Firm		10	0
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	83

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Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi

Qualification and Competence of the Key Staff for the assignment

Name of Firm: Monarch Surveyors and Engineering Consultants Pvt Ltd in JV with RODIC CONSULTANTS PVT. LTD.

S.No.	Staff Position	Max. Marks	Marks obtained
1	Team Leader cum Senior Tunnel Expert	12	10.2
2	Tunnel Design Expert	10	9.75
3	Senior Geotechnical Engineer	10	0 (same key personnel proposed in 2 firms)
4	Senior Geologist	8	7.12
	Total	40	27.07

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Monarch Surveyors and Engineering Consultants Pvt Ltd In JV with RODIC CONSULTANTS PVT. LTD.

2.4.1 Team Leader cum Senior Tunnel Engineer (Hussein Ahmed Faizi)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Degree in Civil Engineering/Tunnel Engineering / Mining Engineering		20	
ii)	Post Graduation in Civil Engineering /Tunnel Engineering/Mining Engineering		5	
II	Relevant Experience & Adequacy for the Project		65	65
a)	Total Professional Experience		10	10
	<20 years	0		
	20-25 years	8		
	>25-28 years	9		
	>28 years	10		
(b)	Experience in Tunnel Projects		32	32
	(i) Professional experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<12 years	0		
	>=12 – 14 years	6		
	>14 – 15 years	7		
	>15years	8		
	(ii) Experience in major tunnel construction/construction supervision projects ((Road/Rail/Metro)		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iii)Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0	20	
	>=10 – 12 years	7		
	>12 years	8		
	(iv) Experience in DPR preparation of minlmm 5 km Tunnel length		8	8
	< 3 projects	0		
	3 or more projects	8		
c)	Experience in construction/construction supervision/ preparation of DPR/Feasibility report of major tunnel project (road/rail/metro)Using NATM		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
d)	Experience in Similar Capacity		15	15
	(i) Experience as Team Leader or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		7	7
	=2 projects	5		
	= 3 to 5 projects	6		
	> 5 or more	7		

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	(ii) Experience as Team Leader or similar capacity in preparation of DPR or Feasibility report of major tunnel project (road/rail/metro)		8	8
	=2 projects	6		
	= 3 to 5 projects	7		
	> 5 or more	8		
III	Employment with Firm		10	0
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	85

2.4.2 Tunnel Design Expert (Dimitrios Gazelas)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil/ Mining Engineering		20	
ii)	Post Graduation in Design/Structural Engineering or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	65
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	24
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	31
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		

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	>12 years	8		
	(ii) Experience as Tunnel Design Engineer (Structural) of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Tunnel Design Engineer (Structural) of major tunnel for preparation of DPR projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience as Tunnel Design Engineer (Structural) in preparation of DPR/ Feasibility report of major tunnel projects (Road/Rail/Metro) using NATM		7	7
	< 3 projects	0		
	>=3-5 projects	6		
	5 or more projects	7		
III	Employment with Firm		10	7.5
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	97.5

2.4.3 Senior Geotechnical Engineer (Joan Santamaria Cusanovas) – same key personnel proposed by two firms, therefore, zero marks has been awarded

2.4.4 Senior Geologist (Alok Kumar Pathak)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	20
i)	Post Graduate in Geology/ Related field		20	
ii)	Phd in Geology/ Related field		5	
II	Relevant Experience & Adequacy for the Project		65	59
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	22
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		

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	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	6
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	27
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	7
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Senior Geologist or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	6
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Senior Geologist or similar capacity in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience in construction/construction supervision/ preparation of DPR/feasibility report of major tunnel projects (Road/Rail/metro) using NATM		7	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	<8 years			
III	Employment with Firm		10	10
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	89

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Consultancy Services for preparation of Detailed Project Report including Pre-Construction activities for Construction of a Road Tunnel for NH-148AE with its approach and connection to NH-248BB and existing Delhi internal roads in the State of Delhi

Qualification and Competence of the Key Staff for the assignment

Name of Firm: SMEC International Pty. Ltd. and association with Anandjiwala Technical Consultancy

S.No.	Staff Position	Max. Marks	Marks obtained
1	Team Leader cum Senior Tunnel Expert	12	9.84
2	Tunnel Design Expert	10	9
3	Senior Geotechnical Engineer	10	9.7
4	Senior Geologist	8	7.04
	Total	40	35.58

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4.1 Team Leader cum Senior Tunnel Engineer (Ulrich Peter Rehm)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil Engineering/Tunnel Engineering / Mining Engineering		20	
ii)	Post Graduation in Civil Engineering /Tunnel Engineering/Mining Engineering		5	
II	Relevant Experience & Adequacy for the Project		65	65
a)	Total Professional Experience		10	10
	<20 years	0		
	20-25 years	8		
	>25-28 years	9		
	>28 years	10		
(b)	Experience in Tunnel Projects		32	32
	(i) Professional experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<12 years	0		
	>=12 – 14 years	6		
	>14 – 15 years	7		
	>15years	8		
	(ii) Experience in major tunnel construction/construction supervision projects ((Road/Rail/Metro)		8	8
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
	(iii)Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0	20	
	>=10 – 12 years	7		
	>12 years	8		
	(iv) Experience in DPR preparation of minimum 5 km Tunnel length		8	8
	< 3 projects	0		
	3 or more projects	8		
c)	Experience in construction/construction supervision/ preparation of DPR/Feasibility report of major tunnel project (road/rail/metro)Using NATM		8	0
	<10 years	0		
	>=10 – 12 years	7		
	>12 years	8		
d)	Experience in Similar Capacity		15	15
	(i) Experience as Team Leader or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		7	7
	=2 projects	5		
	= 3 to 5 projects	6		

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	> 5 or more	7		
	(ii) Experience as Team Leader or similar capacity in preparation of DPR or Feasibility report of major tunnel project (road/rail/metro)		8	8
	=2 projects	6		
	= 3 to 5 projects	7		
	> 5 or more	8		
III	Employment with Firm		10	0
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total		100	82

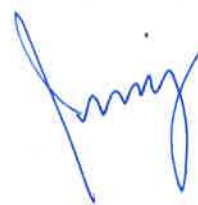
2.4.2 Tunnel Design Expert (B R Sharma)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil/ Mining Engineering		20	
ii)	Post Graduation in Design/Structural Engineering or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	65
a)	Total Professional Experience		10	10
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	24
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	8
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	31
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8

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	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Tunnel Design Engineer (Structural) of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iii) Experience as Tunnel Design Engineer (Structural) of major tunnel for preparation of DPR projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience as Tunnel Design Engineer (Structural) in preparation of DPR/ Feasibility report of major tunnel projects (Road/Rail/Metro) using NATM		7	7
	< 3 projects	0		
	>=3-5 projects	6		
	5 or more projects	7		
III	Employment with Firm		10	0
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of 2.5 marks			
	Total	90	100	90

2.4.3 Senior Geotechnical Engineer (Rajesh Arora)

S. No.	Description		Max. Points	Obtained Marks
I	General Qualification		25	25
i)	Degree in Civil Engineering/Mining Engineering / Engineering Geology		20	
ii)	Post Graduation in Geotechnical Engineering /Foundation Engineering/Rock/Mechanics/Geo Science or equivalent		5	
II	Relevant Experience & Adequacy for the Project		65	62
a)	Total Professional Experience		10	9
	<15 years	0		
	15-20 years	8		
	>20 -25years	9		
	>25years	10		
(b)	Experience in Tunnel Projects		24	23
	(i) Professional Experience in handling major tunnel projects (Road/Rail/Metro)		8	8

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	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(ii) Experience of major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<10 years	0		
	>=10-12 years	6		
	>12 -14 years	7		
	>14 years	8		
	(iii) Experience in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	7
	<10 year	0		
	>=10 – 12 years	6		
	>12 – 14 years	7		
	>14 years	8		
c)	Experience in Similar Capacity		31	30
	(i) Professional Experience as Tunnel Design Engineer (Structural)		8	8
	<8 years	0		
	>=8-10 years	6		
	>10 – 12 years	7		
	>12 years	8		
	(ii) Experience as Senior Geotechnical Engineer or similar capacity in major tunnel construction/construction supervision projects (Road/Rail/Metro)		8	8
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years8	8		
	(iii) Experience as Senior Geotechnical Engineer or similar capacity in preparation of DPR or Feasibility report of major tunnel projects (Road/Rail/Metro)		8	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	>12 years	8		
	(iv) Experience in construction/construction supervision/ preparation of DPR/feasibility report of major tunnel projects (Road/Rail/metro) using NATM		7	7
	<8 years	0		
	>=8 – 10 years	6		
	>10-12 years	7		
	<8 years			
III	Employment with Firm		10	10
	Less than 1 Year	0		
	1-2 years	7.5		
	Add 0.5 marks for each subsequent year subject to maximum of			

Signature Not Verified

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Date: 2020.10.08 15:19:11 IST

Location: eProcurement System for Central PSUs

Akash

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