

National Highways & Infrastructure Development Corporation Limited

2022_NHIDC_682666_1

06.05.2022

Sub: CONSULTANCY SERVICES AS AUTHORITY'S ENGINEER FOR SUPERVISION OF i) Up-gradation to two lane with Paved shoulder from Km. 12+850 to Km.20+300 of 7.450 Km. length on Goha-Khellani section and a link road to Goha Village of 2.016 Km on NH-244 in Union Territory of Jammu & Kashmir on EPC mode. (ii) Up-gradation to two lane with paved shoulder from Km 20+300 to Km29+030 of 8.730 Km length on Goha-Khellani section on NH-244 in Union Territory of Jammu & Kashmir on EPC mode. (iii) Construction of Bi-directional Tunnel at "Km 83" of Length 495 m along with approach road of 664 m and a Major Bridge of 110 m between Km 82+675 to Km 82+925 on NH-244 in Union Territory Jammu & Kashmir on EPC mode.

Amendment No - III

S. No.	Clause and Description	As Per RFP	As per Amendment				
1.	Appendix C-3 Breakdown of local currency costs	1. REMUNERATION FOR LOCAL PROFESSIONAL STAFF					
		1. REMUNERATION FOR LOCAL PROFESSIONAL STAFF					
		S. No.	Position	No. of man-months*	S. No.	Position	No. of man-months*
			Professional Staff			Professional Staff	
		1.	Team Leader Cum Senior Highway Engineer (12 months construction and 18 months DLP)	12+18=30	1.	Team Leader Cum Senior Highway Engineer (12 months construction and 18 months DLP)	12(during construction)+18 (during DLP)=30
		2.	Bridge/Structural Engineer (1 No)	12	2.	Bridge/Structural Engineer (1 No)	12 (during construction)
		3.	Tunnel Design Engineer	12	3.	Tunnel Design Engineer cum Tunnel expert (1 no)	30 (12 (during construction period) +18 (during DLP)
		4.	Senior Geologist	12	4.	Senior Geologist (1 no)	12(during construction)
		5.	Senior Contract Specialist (1 no)	06	5.	Senior Contract Specialist (1 no)	06 (during construction)
		6.	Tunnel Safety Expert (1 no.)	04	6.	Tunnel Safety Expert (1 no.)	18 [12(during construction)+06 (during DLP)]
		Sub-Total			Sub-Total		
		76			108		
		Sub Professional			Sub Professional		
		1.	Survey Engineer (2nos during Construction Period)	12+12=24	1.	Survey Engineer (2nos. during Construction Period & 1 nos during DLP)	12(during construction) +12(during DLP) =24
		2.	Quantity Surveyor (2 nos. during Construction Period and 1no during Maintenance Period for 6months)	12+12+6=30	2.	Quantity Surveyor (2 nos. during Construction Period and 1no during Maintenance Period for 6months)	12(during construction+12 (during construction +6(1 nos. during DLP)=30
		3.	Lab technician(01nos during Construction Period)	12	3.	Lab technician (01nos. during Construction Period)	12 (During construction)
		4.	CAD EXPERT	8	4.	CAD EXPERT	8 (during construction)
		5.	Assistant Highway Engineer (1Nos construction & 1 Nos. for DLP)	12+60=72	5.	Assistant Highway Engineer (1Nos construction & 1 Nos for DLP)	12(during construction) +60(during DLP)=72
		6.	Assistant Bridge Engineer(2 No. construction & 1 no in DLP)	12+12+60=84	6.	Assistant Bridge Engineer(2 No. construction & 1 no in DLP)	12(During construction)+12 (During Construction+ 60(During DLP)=84
		Sub-Total			Sub-Total		
230			230				
Total			Total				
306			306				

				Total		338	
S. No.	Key Personnel	Man-month in Construction period of 12 months	Man-month in Defect Liability Period of 60 months	S. No.	Key Personnel	Man-month in Construction period of 12 months	Man-month in Defect Liability Period of 60 months
A:Key Personnel				A:Key Personnel			
1.	Team Leader Cum Senior Highway Engineer (12 months construction and 18 months DLP)	12	18	1.	Team Leader Cum Senior Highway Engineer (12 months construction and 18 months DLP)	12	18
2.	Bridge/Structural Engineer 1no)	12		2.	Bridge/Structural Engineer 1no)	12	
3.	Tunnel Design Engineer	12	0	3.	Tunnel Design Engineer cum Tunnel expert	12	18
4.	Senior Geologist	12		4.	Senior Geologist	12	
5.	Senior Contract Specialist (1 no)	06		5.	Senior Contract Specialist (1 no)	06	
6.	Tunnel Safety Expert (1 no.)	04	0	6.	Tunnel Safety Expert (1 no.)	12	6
Sub-Total		58	18	Sub-Total		66	42
Total for Construction and Maintenance		76		Total for Construction and Maintenance		108	
7.	Survey Engineer (2 nos. during Construction Period)	12+12=24	0	7.	Survey Engineer (2 nos. during Construction Period)	12+12=24	0
8.	Quantity Surveyor (2 nos. during Construction Period and 1no during Maintenance Period for 6months)	12+12=24	6	8.	Quantity Surveyor (2 nos. during Construction Period and 1no during Maintenance Period for 6months)	12+12=24	6
9.	Lab technician (01 nos. during Construction Period)	12	0	9.	Lab technician (01 nos. during Construction Period)	12	0
10.	CAD EXPERT	8	0	10.	CAD EXPERT	8	0
11.	Assistant Highway Engineer (1 Nos. construction & 1 Nos for DLP)	12	60	11.	Assistant Highway Engineer (1 Nos. construction & 1 Nos. for DLP)	12	60
12.	Assistant Bridge Engineer (2 Nos. construction & 1 nos. in DLP)	12+12=24	60	12.	Assistant Bridge Engineer (2 No construction & 1 nos. in DLP)	12+12=24	60
Sub-Total		104	126	Sub-Total		104	126
Total for Construction and Maintenance		230		Total for Construction and Maintenance		230	
Grand Total		306		Grand Total		338	
3	Para-3 Evaluation criteria for assessment of score of Key Staff for adequacy of the Assignment Appendix EC	New Note		<p>Similar Capacity For:-</p> <p>3.1 Team Leader cum Senior Highway Engineer:-</p> <p>i. On behalf of Consultant Team Leader/Resident Engineer (Construction Supervision/IE/AE/DPR).</p> <p>ii. On behalf of Contractor: Project Manager (Construction/Construction Supervision)</p> <p>iii. In Government Organizations: Superintending Engineer (or equivalent) and above</p> <p>3.2 Tunnel Design Engineer cum tunnel Expert:-</p> <p>i. on the behalf of Consultant/ Contractor: Tunnel Design Engineer/ tunnel Designer</p> <p>ii. In Govt. Organizations: Executive Engineer (or equivalent) and above.</p> <p>3.3 Bridge /Structural Engineer:-</p> <p>i On behalf of consultant/ contractor : Bridge engineer/project Manager(Bridges)</p> <p>ii. On behalf of govt: executive engineer</p> <p>3.4 Senior Geologist:-</p> <p>i. on the behalf of Consultant/ Contractor: Senior Geologist</p> <p>ii. In Govt. Organizations: Executive Engineer (or equivalent) and above</p> <p>3.5 Senior Contract Specialist:-</p> <p>i. on the behalf of Consultant/ Contractor: Senior Geo technical Engineer</p> <p>ii. In Govt. Organizations: Executive Engineer (or equivalent) and above</p>			

	b i)	Experience in tunnel design (Road/Rail/Metro) works in similar capacity <12 years - 0 12 years - 7 marks Add1mark extra for each additional year of experience subject to maximum 3(three) marks.	10				
	b ii)	Experience in similar capacity in Project Preparation/DPR involving design of tunnels (Road/Rail/Metro) of more than 4km length(Min.1year experience in a project) < 3 projects - 0 3 projects - 11 marks Add1mark extra for each additional projects subject to maximum 4 (four) marks.	15				
	b iii)	Experience in similar capacity in construction/ construction supervision projects involving design/design review of tunnels of more than 4Km length(Min. 1 year experience in project) <2 projects - 0 2 projects - 7 marks Add 1.5 mark extra for each additional projects subject to maximum 3(three) marks.	10				
	c i)	Experience in innovation tunnel design (Road/Rail/Metro) like immersed tunnel and sub-sea bored tunnel 1projects - 4 marks 2 or more projects -5 marks	5				
	c ii)	Experience in design tunnel projects (Road/Rail/Metro) apart from those under 2 (b) (ii) 1. project - 4marks 2. or more projects-5marks	5				
	3	Employment with the Firm <1 year- 0 1 year - 3 marks Add0.5marks for each subsequent year subject to maximum 2marks	5				
		Total :	100				
	b ii)	Experience in similar capacity in Project Preparation/DPR involving design of tunnels (Road/Rail/Metro) of more than 4km length(Min.1year experience in a project) < 3 projects - 0 3 projects - 11 marks Add1mark extra for each additional projects subject to maximum 4 (four) marks.	15				
	b iii)	Experience in similar capacity in construction/ construction supervision projects involving design/design review of tunnels of more than 4Km length(Min. 1 year experience in project) <2 projects - 0 2 projects - 7 marks Add 1.5 mark extra for each additional projects subject to maximum 3(three) marks.	10				
	c i)	Experience in innovation tunnel design/ construction / construction supervision (Road/Rail/Metro) like immersed tunnel and sub-sea bored tunnel 1projects - 4 marks 2 or more projects -5 marks	5				
	c ii)	Experience in design/ construction/ construction supervision tunnel projects (Road/Rail/Metro) apart from those under 2 (b) (ii) 1. project - 4marks 2. or more projects-5marks	5				
	3	Employment with the Firm <1 year- 0 1 year - 3 marks Add0.5marks for each subsequent year subject to maximum 2marks	5				
		Total :	100				

S. No.	Description	Max. Points	Reference/ Details of projects Claimed for self-assessment	Marks self-assessed by the bidder	S. No.	Description	Max. Points	Reference/ Details of projects Claimed for self-assessment	Marks self-assessed by the bidder
3.6 Tunnel Safety Expert Enclosure -B Qualifica tion of Key personne l	1	General Qualification		25	1	General Qualification		25	
	I)	Graduate in Civil /Mining Engineering or equivalent	21		I)	Graduate in Civil /Mining Engineering or equivalent	21		
	II)	Any professional Certification from a recognized/ statutory body on safety /health/ shot firer	04		II)	Any professional Certification from a recognized/statutory body on safety /health/shot firer	04		
	2	Adequacy for the Project		70	2	Adequacy for the Project		70	
		Total Professional experience				Total Professional Experience			
	a i)	<20 years – 0 20 years – 11 marks Add 1 mark extra for each additional year of experience subject to maximum 4(four) marks.	15		a i)	<20 years – 0 20 years – 11 marks Add 1 mark extra for each additional year of experience subject to maximum 4(four)marks.	15		
	A ii)	Experience Tunnel (Road/Rail/Metro) Safety Works <10 years – 0 10 years – 11 marks Add 1 mark extra for each additional year of experience subject to maximum 4(four) marks.	15		A ii)	Experience Tunnel (Road/Rail/Metro) Safety Works <10 years – 0 10 years – 11 marks Add 1 mark extra for each additional year of experience subject to maximum 4(four)marks.	15		
	a iii)	International exposure in tunnel safety works in developed countries <7 years – 0 7 years – 7 marks Add 1 mark extra for each additional projects subject to maximum 3 (three) marks.	10		a iii)	International exposure in tunnel safety works in developed countries <7 years – 0 7 years – 7 marks Add 1 mark extra for each additional projects subject to maximum 3 (three)marks.	10		
	b	Experience in Similar Capacity			b	Experience in Similar Capacity			

		b i)	Experience in similar capacity of Tunnel Safety Audits during construction stage of tunnel projects(Road/Rail/Metro)of minimum length of 4Km < 2 projects – 0 2 projects – 15 marks Add1.25mark extra for each additional projects subject to maximum 5 (five)marks.	20				b i)	Experience in similar capacity of Tunnel Safety Audits during construction stage of tunnel projects(Road/Rail/Metro)of minimum length of 4Km < 2 projects – 0 2 projects – 15 marks Add1.25mark extra for each additional projects subject to maximum 5 (five)marks.	20			
		b ii)	Experience in similar capacity of Tunnel Safety Audits in design stage on tunnel projects (Road/Rail/Metro) 1 project – 8marks 2 or more – 10marks	10				b ii)	Experience in similar capacity of Tunnel Safety Audits in design stage on tunnel projects (Road/Rail/Metro) 3 project – 8marks 4 or more – 10marks	5			
		C)	Experience in construction of major tunnel projects (Road/Rail/Metro)using 1 project – 3 marks Add 1 mark extra for each additional projects subject to maximum 2 (two)marks.	5				C)	Experience in construction of major tunnel projects (Road/Rail/Metro)using 1 project – 3 marks Add 1 mark extra for each additional projects subject to maximum 2 (two)marks.	5			
		3	Employment with the Firm <1 year- 0 1 year – 3 marks Add0.5marks for each subsequent year subject to maximum 2marks	5				3	Employment with the Firm <1 year- 0 1 year – 3 marks Add0.5marks for each subsequent year subject to maximum 2marks	5			
			Total :	100					Total :	100			
7.		BOQ						Modified BOQ As annex-i					
8.	NIT & RFP	Format of EMD						As per annex-ii					



B. Shivprasad
General Manager (T)



Item Rate BoQ						
Tender Inviting Authority: NHIDCL						
CONSULTANCY SERVICES AS AUTHORITY'S ENGINEER FOR SUPERVISION OF						
i) Up-gradation to two lane with Paved shoulder from Km. 12+850 to Km.20+300 of 7.450 Km. length on Goha-Khellani section and a link road to Goha Village of 2.016 Km on NH-244 in Union Territory of Jammu & Kashmir on EPC mode. (ii) Up-gradation to two lane with paved shoulder from Km 20+300 to Km29+030 of 8.730 Km length on Goha-Khellani section on NH-244 in Union Territory of Jammu & Kashmir on EPC mode. (iii) Construction of Bi-directional Tunnel at "Km 83" of Length 495 m along with approach road of 664 m and a Major Bridge of 110 m between Km 82+675 to Km 82+925 on NH-244 in Union Territory Jammu & Kashmir on EPC mode.						
Contract No: NHIDCL/J&K/NH-244/G-Krd &83rd Tunnel/AE/2022						
Bidder Name :						
PRICE SCHEDULE						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder excluding GST in Rs.	TOTAL AMOUNT excluding GST in Rs.	TOTAL AMOUNT in Rs. In Words
1	2	4	5	13	53	55
1	Professional Staff					
1.1	Team Leader Cum Senior Highway Engineer (1 No)	30.000	Months		0.00	INR Zero Only
1.2	Tunnel Design Engineer cum Tunnel expert (1 No)	30.000	Months		0.00	INR Zero Only
1.3	Bridge/Structural Engineer (1 No)	12.000	Months		0.00	INR Zero Only
1.4	Senior Geologist (1 No)	12.000	Months		0.00	INR Zero Only

1.5	Senior Contract Specialist (1 No)	6.000	Months		0.00	INR Zero Only
1.6	Tunnel Safety Expert (1 No)	18.000	Months		0.00	INR Zero Only
2	Sub-Professional Staff					
2.1	Survey Engineer, 2 Nos.	24.000	Months		0.00	INR Zero Only
2.2	Assistant Highway Engineer, 1 Nos.	72.000	Months		0.00	INR Zero Only
2.3	CAD Expert	8.000	Months		0.00	INR Zero Only
2.4	Lab technician (1Nos.)	12.000	Months		0.00	INR Zero Only
2.5	Assistant Bridge Engineer, 2Nos.	84.000	Months		0.00	INR Zero Only
2.6	Quantity Surveyor, 2 Nos.	30.000	Months		0.00	INR Zero Only
3	Support Staff (inclusive of per diem allowance)					
3.1	Office Manager (1 No)	72.000	Months		0.00	INR Zero Only
3.2	Accountant Cum Cashier (1 No)	72.000	Months		0.00	INR Zero Only
3.3	Steno cum Computer operator (1 No)	72.000	Months		0.00	INR Zero Only
3.4	Office Boy (1 No)	72.000	Months		0.00	INR Zero Only
4	Transportation : The vehicles provided by the Consultants shall include the cost for rental, drivers, operation, maintenance, repairs, insurance, etc. for all complete approx. 3000km/month run					
4.1	Scorpio or equivalent 4x4 vehicle(not more than 3 years old) (1 nos during Construction Period and 1 nos during Maintenance Period.)	60.000	Months		0.00	INR Zero Only
4.2	Bolero or equivalent 4x4 vehicle(not more than 3 years old) (1 nos during Construction Period and 1 nos during Maintenance Period.)	60.000	Months		0.00	INR Zero Only

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5	Duty Travel to Site(Fixed Costs): Professional and Sub-Professional Staff. The employer may require the key personnel to visit the Employer's Site Offices/Regional Office. The quoted amount against remuneration should include travel fare for 24 round trip to Employer's Head Office and 24 round trip to Employer's regional office. (including Hotel Charges, travel costs etc. complete)	1.000	LS		0.00	INR Zero Only
6	Office Rent (Fixed Costs) The rent cost includes electricity and water charges, maintenance, cleaning, repairs, etc.					
6.1	One Office of Minimum 200 sqm area shall be rented during Construction Period	12.000	Months		0.00	INR Zero Only
6.2	One Office of Minimum 50 sqm area shall be rented during Maintenance Period	60.000	Months		0.00	INR Zero Only
7	Office Supplies, Utilities and Communication (Fixed Costs): e.g. Office Supplies, Drafting Supplies, Computer Running Costs, Domestic and International Communication etc.					
7.1	During Construction Period	12.000	Months		0.00	INR Zero Only
7.2	During Maintenance Period	60.000	Months		0.00	INR Zero Only
8	Office Furniture and Equipment (Rental) : The cost shall include rental charges towards all such furniture and equipment as required for proper functioning of office. Executive Table, Executive Chairs, Tables (for executive), Ordinary Chairs Type-I, Tables (for all other staff), Ordinary Chairs-Type II (for all other staff), Steel Almirah, Visitors chairs/Conference room chairs, Tables for computers with 3 drawers, keyboard/mouse pull out trays, Printer desks, Side tables, Conference Table, Revolving Chairs for Computer Room/Drawing room, Telephone with PABX facilities, Photocopier, FAX, Computer PC (state of the art), LaserJet Printers, Binding Machine, Water Coolers and Software, Plotter, Biometric device etc.					
8.1	During Construction Period	12.000	Months		0.00	INR Zero Only
8.2	During Maintenance Period	60.000	Months		0.00	INR Zero Only

9	Reports and Document Printing					
9.1	Monthly reports	216.000	Nos		0.00	INR Zero Only
9.2	Half yearly Reports	36.000	Nos		0.00	INR Zero Only
9.3	Various other reports as provided in the Concession Agreement such as Completion Report	36.000	Nos		0.00	INR Zero Only
10	Cost towards Road Survey Equipment (Network Survey Vehicle/Falling Weight Deflectometer/Mobile Bridge Inspection Unit/Retro Reflectometer) including all required manpower, software & report processing etc.					
10.1	Surface defects detection and roughness measurement using Network Survey Vehicle (79.26 kms x 8 times)	8.00	Nos		0.00	INR Zero Only
10.2	Pavement strength measurement using FWD (79.26kms x 4 times)	4.00	Nos		0.00	INR Zero Only
10.3	Bridge inspection using Mobile Bridge Inspection Unit (79.26kms x 8 times)	8.00	Nos		0.00	INR Zero Only
10.4	Road signs inspection using Retro Reflectometer (79.26kms x 8 times)	8.00	Nos		0.00	INR Zero Only
11	Contingencies A fixed amount of Indian Rupees Ten Lakh (Rs 10,00,000/-) shall be included in the Financial Proposal	1.000	No		0.00	INR Zero Only
Total in Figures					0.00	
Quoted Rate in Words		INR Zero Only				

Appendix B-11

BANK GUARANTEE FORMAT FOR BID SECURITY

(To be stamped in accordance with Stamp Act if any, of the country of issuing bank)

Ref.: Tender No. _____, dated _____

Bank Guarantee:

Date:

WHEREAS, _____(Name of Bidder) __ (hereinafter called "the bidder") has submitted his bid dated _____ (date) for the Tender No. _____, dated _____ (hereinafter called "the Bid").

KNOW ALL MEN by these presents that We, _____ [Name of Bank) of _____ [Name of Country] having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ [Name of Client] (hereinafter called "the Client") in the sum of Rs. _____ (Rupees _____ Lakhs Only) for which payment will and truly to be made to the said Client the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 201_

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws his Bid during the period of bid validity specified in the Bid document; or
2. If the Bidder does not accept the correction of arithmetical errors of his Bid Price in accordance with the Instructions to Bidder; or
3. If the Bidder having been notified of the acceptance of his Bid by the Client during the period of bid validity,
 - a. fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - b. fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders,

we undertake to pay the Client up to the above amount upon receipt of his first written demand, without the Client having to substantiate his demand, provided that in his demand the Client will note that the amount claimed by him is due to him owing to the occurrence of one or any of the conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 180 (one hundred and eighty) days after the deadline for submission of bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Client, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

Notwithstanding anything contained herein before, our liability under this guarantee is restricted to Rs. _____ (Rs. _____) and the guarantee shall remain valid till _____. Unless a claim or a demand in writing is made upon us on or before _____ all our liability under this guarantee shall cease.

This guarantee shall also be operatable at our New Delhi Branch located at _____, from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be made available on demand. In the contingency of this guarantee being invoked and payment there under claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation

DATE _____

SIGNATURE OF THE BANK _____

SEAL OF THE BANK _____

SIGNATURE OF THE WITNESS _____

Name and Address of the Witness _____

The bank guarantee shall be issued by a bank (Nationalized/Scheduled) located in India

NOTE for Issuing Bank (Not to be included in the BG):-

1. The stamp papers of appropriate value shall be purchased in the name of bank, who issues the "Bank Guarantee".
2. The bank guarantee shall be from a Nationalized Indian Bank or reputed foreign commercial Bank acceptable to client for Foreign Consultant with counter guarantee from Nationalized Bank. Bank guarantee furnished by Foreign consultant shall be confirmed by any Nationalized Bank in India.
3. The bank guarantee(s) contain(s) the name, designation and Code number of the officer(s) signing the guarantee(s).
4. The address, telephone no. and other details of the Head Office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing Branch.
5. The bank guarantee for Rs. 10,000 and above is signed by at least two officials (or as per the norms prescribed by the RBI in this regard).
6. The Bank Guarantee shall be transmitted through SFMS gateway to our banker with following details:



S. No.	Particulars	Details
1	Name of Beneficiary	National Highways & Infrastructure Development Corporation Limited
2	Beneficiary Bank Account No.	90621010002659
3	Beneficiary Bank Branch IFSC	CNRB0019062
4	Beneficiary Bank Branch Name	Transport Bhawan, New Delhi
5	Beneficiary Bank Address	Canara Bank, Transport Bhawan, 1st Parliament Street, New Delhi-110001

7. The confirmation with supporting details if any shall be specifically mentioned in the covering letter issued with the Bank Guarantee.



