

Full Title of the project: Diversion of 0.440 Ha. of Forest Land in favour of Punjab PWD B&R for Construction of Single Span (4-laned) 135m long Steel Bridge on Phagwara-Banga-Nawanshahar-Ropar Road at RD. KM. 86.900 on Sirhind Canal of NH-344A including approaches in Ropar City. Under Rupnagar Forest Division (Punjab).

File No: _____

Date of Proposal: _____

CHECK LIST SERIAL NUMBER-21


APPROVAL OF THE PROJECT

It is certified that the work of Forest Land in favour of Punjab PWD B&R for Construction of Single Span (4-laned) 135m long Steel Bridge on Phagwara-Banga-Nawanshahar-Ropar Road at RD. KM. 86.900 on Sirhind Canal of NH-344A including approaches in Ropar City. Under Rupnagar Forest Division (Punjab) has been approved by the Ministry of Road Transport & Highways, New Delhi's File No. RW/CH/NH-344A/PB/W (New)/2020 Dated.31.05.2021, (Copy of Project approval letter enclosed).

Divisional Forest Officer,
Ropnagar

Place:

Date: _____


Sub Divisional Engineer,
National Highways Sub Division,
PWD (B&R), Rupnagar

Signature of User Agency
Office Seal


Executive Engineer
Central Works Division,
Pb. PWD (B&R), Rupnagar

No. RW/CH/NH-344A/PB/W(New)/2020
Government of India
Ministry of Road Transport & Highways
(Zone-II)
Transport Bhawan, 1, Parliament Street, New Delhi-110001

Dated: 31st May, 2021

To

The Secretary
Public Works Department
Government of Punjab.

Subject: Construction of Single Span (4-Laned) 135 m Long Steel Bridge on Phagwara-Banga-Nawanshahr-Ropar road at RD 86.900 on Sirhind Canal of NH 344-A in Ropar City in the State of Punjab on EPC Mode.

(Job No. NH-344A/PB/ 21-22/534)

Ref: State PWD letter no. 465/NH dated 03.02.2021

Sir,

I am directed to convey the technical approval, administrative approval and financial sanction of the President of India to the estimate for the work mentioned in the subject above as per the following details subject to conditions stipulated in attached Technical Note dated 28.05.2021.

	(Rs. in Crore)
i) Amount as indicated in the estimate & sent by the State PWD	Rs. 79.18
ii) Amount modified in the Ministry	Rs. 80.00
iii) Amount of technical approval (Inclusive of agency charges @3%)	Rs. 80.00
iv) Amount of financial sanction	Rs. 80.00

(Rupees Eighty Crore Only).

2. The approval is subject to the following conditions:-

i) The work should be completed as per the target indicated in the enclosed technical note. As such there shall not be any cost over-run due to time over-run. Stipulations made in the technical note shall be strictly adhered to.

ii) On completion of 50% work, if appraisal of the project shows that it will necessitate revision of the estimate based upon the physical completion of the project vis-à-vis financial expenditure immediate action should be taken to submit the revised estimate so as to ensure that the sanctioned revised estimate is available before necessity for incurring expenditure beyond permissible limits arises and;

iii) The guidelines relating to norms of advertisements in newspapers/journals for invitation of tenders for the execution of works of National Highways and under other Centrally Financed Schemes issued vide this Ministry's letter No. RW/NH-11024/3/99-US (D.I), dated 9/3/2000 shall be followed strictly.

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iv) The bids for the work should be invited through e-tendering system as per the instructions issued vide Ministry's letter no. RW/NH/33044/2/2010-S&RI dated 17/06/2011 and dated 17/11/2011 respectively. The advertisement to this effect shall be made as per guidelines issued by this Ministry vide letter No. RW/NH-11024/3/99-US-(D)-10 dated 09/03/2000.

v) The guidelines for expeditious acceptance of tenders and award of work circulated vide Ministry's letter No. RW/NH-15015/29/2001-PL, dated 05/07/2001 shall be followed strictly.

vi) The expenditure during the current financial year on this work as also on the other sanctioned work should not exceed the allotment placed at the disposal of the State Government during the year;

vii) In accordance with the order contained in this Ministry's Circular letter No. RW/NH11026/2/99-US (D-I), dated 29.10.2001, it would be ensured while accepting the tenders that the overall cost at tender rates including contingencies, work charged establishment and agency charges does not exceed by more than 5% of the sanctioned cost. Sanction of the Ministry for the revised estimate shall be obtained where the cost exceeds 5% of the sanctioned cost.

3. The expenditure is debitable to Major Head '5054' Capital Outlay on Roads & Bridges 01- National Highways (Sub Major Head), 01.337 Road Works (Minor Head), 03 National Highways Original Works, 03.01 Works financed from Central Road Fund, 03.01.53 Major Works for which the corresponding Demand for the current financial year 2021-22 is '85' Ministry of Road Transport & Highways.

4. The technical approval and financial sanction may lapse after Six months from the date of its issue in case the work is not awarded within that period.

5. The following cumulative physical and financial target shall be strictly adhered to subject to the availability of funds:-

Year	Physical	Cumulative Progress Financial (Rs. in crore)		
		Construction cost including centages & cost of preconstruction activities	Maintenance	Total Cost (Cumulative)
2021-22	100%	77.63	-	77.63
2022-23	-	-	0.16	77.79
2023-24	-	-	0.32	77.95
2024-25	-	-	0.47	78.10
2025-26	-	-	0.63	78.26
2026-27	-	-	0.79	78.42
2027-28	-	-	1.11	78.74
2028-29	-	-	1.42	79.05
2029-30	-	-	1.74	79.37
2030-31	-	-	2.05	79.68
2031-32	-	-	2.37	80.00

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6. This sanction issues with the concurrence of the Finance Wing vide their Note # 53 dated 27.05.2021.

Yours faithfully,



(Kamal Parkash)

Under Secretary to the Government of India

Encl: As above

Copy with a copy of Technical Note forwarded to:

1. The Chief Engineer (NH) PWD, Punjab, Patiala.
2. The Account General, Govt. of Punjab, Chandigarh.
3. The Chief Controller of Accounts, IDA Building Jamnagar House, New Delhi.
4. Principal Director of Audit, Economic & Services Ministries, AGCR Building, IP Estate, New Delhi.
5. The Regional Pay & Accounts officer, Ministry of Road Transport & Highways, 6th Floor, Kendriya Sadan, Sector 9A. Chandigarh
6. Chief Engineer-RO, MoRTH, Chandigarh
7. Section Officer, W&A Section.



(Kamal Parkash)

Under Secretary to the Government of India

Copy also to:

CE (Z-II), SE (Z-II), AEE (Z-II)/CE (P&M) /W&A Section/TF-II Finance Wing/ Guard file.



(Kamal Parkash)

Under Secretary to the Government of India

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Divisional Forest Officer,
Roopnagar

Digitally signed by KAMAL
PARKASH

Date: Mon May 31 12:56:02 IST

2021

Reason: Approved

71/2/21/Coordinator(Zone-2)

No. RW/CH/NH-344A/PB/W(New)/2020
 Government of India
 Ministry of Road Transport & Highways
 (Zone-II)
 Transport Bhawan, 1, Parliament Street, New Delhi - 110001

Dated: 28th May, 2021**TECHNICAL NOTE**

(Job No. NH-344A/PB/ 21-22/534)

1.	Name of Work	Construction of Single Span(4-Laned) 135m long Steel Bridge on Phagwara-Banga-Nawanshahr-Ropar road at RD 86.900 on Sirhind Canal of NH-344A in Ropar City in the State of Punjab on EPC mode.	
2.	NH No.	NH-344A	
3.	No. of Bridges/structures	1 No. of Majr Bridge with approaches	
4.	State	Punjab	
5.	Estimated Cost	As proposed by the State PWD	As modified in the Ministry
		Rs 79.18 Cr.	Rs. 80.00 Cr.
6.	Reference	State PWD memo no. 465/NH dated 03.02.2021	

COMMENTS

1. **Scope of Work:** Construction of Single Span(4-Laned) 135m long Steel Bridge on Phagwara-Banga-Nawanshahr-Ropar road at RD 86.900 on Sirhind Canal of NH-344A in Ropar City in the State of Punjab on EPC mode.

2. **Provisions:** The following are provisions taken in the instant proposal:

(i) **Bridge Portion:** A new bridge of overall width of 2* 13.5m (as per fig. 7.2A of IRC-SP-84-2019) has been proposed in lieu of the existing bridge and the existing structure is proposed to be dismantled. The details of the proposed structure is as under:

Design Ch. (Km)	Detail of Existing Structure			Proposal	Details of Proposed structure		
	Type	Span (m)	Width (m)		Type	Span (m)	Width (m)
86+900	RCC Solid Slab	6.9+(26.8*4)+6.9	7.4	New Construction as 4-Laned	Steel Bridge	18*7.5=135	2* 13.50

(ii) **Approach Portion:** The indicative typical cross sections of the approaches on two sides as under:

Sr. No.	Chainage (Km)		Length (m)	Proposed Dimensions	Remarks
	From	To			
1	86+757.5	86+832.5	75	The existing 10.0 m road has been merged into 4-Laned Bridge and again Demerged into 10.0 m road.	New Construction + Widening
2	86+867.5	87+042.5	75		

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Total (Km)	150	
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The details of proposed crust composition in the widening portion is as below:

Design Period (Years)	Calculated MSA	Adopted MSA	CBR (%)	Pavement Crust Compositions				Total (mm)
				BC (mm)	DBM (mm)	WMM (mm)	GSB (mm)	
15 (As per IRC SP-73: 2018)	30	50.0	8	40	100	250	225	615

(iii) Road Furniture and Road Safety Structures:

- Road Markings i.e. Centre Line and Edge Line
- Road Signs i.e. Cautionary, Mandatory and Informatory Signs,
- Hazard markers
- Road Delineators and Road Studs(Cat Eyes)

- (iv) Construction of Drain(1000m), Retaining Wall for the prevention of rain cuts and Interlocking tiles(1000m)

3. Splitting of Work: No splitting of work shall be allowed without prior permission of the Ministry.

4. Comments and Modification:

- The work is to be executed on EPC mode as per latest EPC Document dated 05.03.2019 and subsequent amendments.
- Construction Period has been kept as 9 months as per section 1 of latest EPC RFP dated 05.03.2019.
- The defect liability period for the work is kept as 10 years as per latest EPC document.
- The centages have been modified as per the Ministry's circular vide dated 07.03.2019 i.e. GST@12%, Contingencies @2.8%, Agency & Supervision Charges @3% on civil construction cost. Further, State PWD has not included the provision of Maintenance @3.75% for 10 years as required for standalone structure/ bridge projects as per latest standard EPC document and the maintenance @3.75% of the civil cost may be allowed in the proposal.
- As the construction period is less than 1 year, the escalation charges have not been proposed by State PWD. The same may be agreed to.
- Further, State PWD has not included the provision of Maintenance @3.75% for 10 years as required for standalone structure/ bridge projects as per latest standard EPC document. The estimate has been modified accordingly to include maintenance @3.75% of the civil cost.
- DLP for the work shall be 10 years as per the latest standard EPC agreement
- EPC schedules shall be vetted and approved by RO, Chandigarh as per approved Technical Note.
- The thickness of crust of the pavement shall not be less than the values mentioned in para 2.(i) and 2.(ii) above.
- Design of pavement will be governed by the provisions of IRC SP 84:2019 and IRC 37:2018.
- The provisions taken are for estimate purpose only.
- The work shall be executed on site as per Specification for road and Bridge Works (Fifth revision), relevant IRC guidelines and Ministry's extant circulars.

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- 4.13 DBM and BC layer should be provided strictly in accordance with IRC:111-2009 after carrying proper job mix design (section 4). Further, construction operations (section 5), and quality controls (section 6) in conjunction with Ministry's specifications for Road and Bridge works (5th revision) need to be strictly adhered. The work of GSB & WMM shall be executed as per Clause 401 & 406 respectively of Ministry's specifications for Road and Bridge works (5th revision).
- 4.14 The source of procurement of bitumen / modified bitumen is always a concern from the point of view of homogeneity and quality. As such, the bitumen / modified bitumen shall be procured from the refineries only (As per Ministry Circular No.RW/NH-37072/05/2018-S&R(P&B) Dated: 24 August 2018). Modified bitumen (using polymer/crumbed rubber /natural rubber) or VG - 40 grade of bitumen has to be used. In such cases shearing mill is to be mandatory used (in case of Bitumen modified with crumbed rubber /natural rubber so as to ensure proper mixing of the bitumen and the modifier. Other measures is ensured at the time of using the modified bitumen for construction of wearing coat. (As per Ministry Circular No.RW/NH-37072/05/2018-S&R(P&B) Dated 24 August 2018).
- 4.15 RFP is proposed to be invited from fresh bidders in as per Ministry's standard RFP document (as per standard RFP vide Ministry's letter dated 05.03.2019) & Ministry's extant guidelines. The work will be executed and supervised by State PWD, Punjab.

5. Tenders:

- 5.1 The tenders for the work shall be invited adopting e-procurement/e-tendering procedure as per Ministry's guidelines vide letter no. RW/NH-24035/4/2008-P&M/PIC/EAP dated 31.03.2016 and as per Ministry's extant guidelines.
- 5.2 No work beyond the scope of the sanctioned estimate leading to increase in the scope of the work or change in specifications should be undertaken without obtaining prior approval of the Ministry. In case, the estimate needs revision due to change in rates/tender rates for any reasons, the revised estimate shall be submitted immediately for Ministry's approval. No expenditure beyond permissible limit will be committed without prior approval of Ministry.
- 5.3 It needs to be clearly mentioned in the NIT that the rates are inclusive of cost of traffic management during construction. Contractor shall provide road signage, ballads, boards, gunny bags, sheets etc. for safety of traffic during construction period, which will be incidental to work.
- 5.4 All the relevant Circulars and amendments regarding tender procedures issued from time to time by Ministry shall be followed. While finalizing the tender Central Vigilance Commission (CVC) guidelines circulated vide Circular No. 4/3/07 dated 03.03.2007 should be strictly followed.
- 5.5 If the work is not awarded within the stipulated time as per Ministry's extant guidelines, it may lead to de-sanction of the work unless Ministry's prior approval to extension of time limit is obtained.

6. General:

- 6.1 The project display boards are to be erected on the either end of the project reach as per the Ministry's letter No.RW/NH-33044/10/2001-S&R (R) dated 17.07.2001.
- 6.2 Guidelines for Road Safety vide Ministry's letter No.RW/NH-33072/04/2004-S&R(R) dated 27.04.2010 shall be followed.
- 6.3 In order to ensure that there is no slippage in achieving the targets, the progress may be closely monitored by competent authority in consultation with CE-RO, Chandigarh and

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quarterly status report furnished to the Ministry in the prescribed Performa.

7. Cost of work:

- 7.1 The contractor shall be responsible to procure the material conforming to specification of the work. No provision of extra lead during execution of the work may be allowed.
- 7.2 Rate as allowed in this estimate should not be revised without prior approval of the Ministry.
- 7.3 The estimated cost of the project in view of above comments for Rs. 80.00 crore including all the centages. The brief breakup of the cost is given below:


Sr. No.	Sub Head	Cost Proposed by State PWD (Rs.)	Cost modified in Ministry (Rs.)
1	Cost of foundation	44842310	44842310
2	Cost of Sub Structure	6837468	6837468
3	Cost of Super Structure	559370123	559370123
4	Cost of Approaches Road	7886660	7886660
5	Cost of Miscellaneous/Road Safety Items	123111	123111
6	Cost of Drain, Retaining wall, Interlocking tiles.	13120190	13120190
7	Sub Total (A)	632179862	632179862
8	Add 12% GST	75851583	75851583.44
11	Preparation of D.P.R including surveying, geotechnical investigation, design, drawing and proof checking etc (@0.75%)	5310311	0
12	Add 2.8% For Contingencies (A)	19825160	17701036.14
13	Agency Charges @ 3% of Civil Construction Cost (A)	21241243	18965395.86
14	Supervision Charges @ 3% of Civil Construction Cost (A)	21241243	18965395.86
15	Add 0.5% Quality Control Charges	3540207	0
16	Maintenance Charges @3.75% on (A) for 10 years	0	23706744.83
	Total Provision of Centages (B)	71158164	155200156.1
17	Utility Shifting Cost	5000000	5000000
18	Forest Diversion Cost	7583091	7583091
19	Total Provision of Preconstruction activities (C)	12583091	12583091
	Total project Cost (A+B+C)	791782700	799963109.1
20	Says Rs in crore	79.18	80.00

8. Targets and phasing: Following physical and financial targets may be achieved subject to the availability of funds:

Year	Physical Progress (%)	Financial Progress (Cumulative) in Lakhs		Total
		Construction Period	Maintenance period	
2021-22	100%	77.63	-	77.63
2022-23	-	-	0.16	77.79
2023-24	-	-	0.32	77.95
2024-25	-	-	0.47	78.10
2025-26	-	-	0.63	78.26
2026-27	-	-	0.79	78.42
2027-28	-	-	1.11	78.74

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2029-30	-	-	1.42	79.05
2030-31	-	-	1.74	79.37
2031-32	-	-	2.05	79.68
	-	-	2.37	80.00


(Sharad Varshney)
Superintending Engineer (Zone-II)
for DG(Road Development) & SS