

No. RW/NH-12014/1321/2018/PB/ZONE-II

Government of India

Ministry of Road Transport & Highways

(Zone-II)

Transport Bhawan, 1, Parliament Street, New Delhi-110001

Dated 19 November, 2018

To

The Secretary
Public Works Department
Government of Punjab.

Subject: Construction of new road along canal (Kasul Branch Lower/ Khe Karan Distributor) from village Joura originating from DR-62 (Tarn Taran-Patti Road) to village Mahmoodpura in district Tarn Taran in the State of Punjab under Economic Importance in EPC mode of contract.

(Job No. MDR-62 /PB/ 2018-19/502)

Ref: Letter from Chief Engineer (NH), PWD, Punjab vide his letter no. 5036/NH, dated 04.09.2018 received from PWD Punjab.

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:-

(Rs. in Crore)

I. Amount as indicated in the estimate & sent by the State PWD	Rs. 50.86
II. Amount modified in the Ministry	Rs. 49.32
III. Amount of technical approval (Inclusive of agency charges @9%)	Rs. 49.32
IV. Amount of financial sanction	Rs. 49.32

(Rupees Forty Nine Crore and Thirty Two lakh 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/NH-11026/2/99-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 debitale 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 2018-19 is '81' 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 progress	Cumulative Financial progress wrt civil work	Cumulative Financial progress (Rs. Crore)	Remarks
2018-19	10%	10%	10.00	Construction Period
2019-20	35%	35%	17.26	
2020-21	100%	90%	44.39	
2021-22	100%	95%	46.85	DLP & Maintenance Period
2022-23				
2023-24				
2024-25	100%	100%	49.32	
2025-26				

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6. This sanction issues with the concurrence of the Finance Wing vide their U.O. No.1193/TF-II/2018, dated 22.10.2018.

Encl: As above

Yours faithfully,

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(Vijay Kumar Patnayak)

Under Secretary to the Government of India

Tel:- 011-23739074

No. RW/NH-12014/1321/2018/PB/ZONE-II

Copy with a copy of Technical Note forwarded to:

1. The Secretary to the Govt. of Punjab.
2. The Chief Engineer (NH) PWD, Punjab, Patiala.
3. 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. Section Officer, W&A Section.

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(Vijay Kumar Patnayak)

Under Secretary to the Government of India

Tel:- 011-23739074

Copy also to:

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

(Ghanshyam Meena)
Section Officer (Zone-II)
Tel:- 011-23716598

No. RW/NH/12014/1321/2018/PB/Zone-II
GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS
Transport Bhawan, 1- Parliament Street, New Delhi-110 001

Dated: ____ November, 2018

TECHNICAL NOTE

[Job No. EI-PB-2018-19- ____]

- (i) Name of work : Construction of new road along canal (Kasul Branch Lower / Khe Karan Distributory) fro village Joura originating fro DR-62 (Tarn Taran-Patti Road) to village Mahmoodpura in district Tarn Taran in the State of Punjab under Economic Importance in EPC mode of contract.
- (ii) State : Punjab
- (iii) NH No : ---
- (iv) Estimated Cost : As proposed by State PWD As modified in the Ministry
Rs.50.86 crore Rs. 49.32 crore
- (v) Length : 30.30 km
- (vi) Cost per Km. Rs. 1.68 crore Rs.1.63 crore
- (vii) Reference : Letter 5036/NH, dated 04.09.2018 from CE(NH), Punjab

C O M M E N T S

1. **Scope of work:** Construction of new road along canal (Kasul Branch Lower / Khe Karan Distributory) from village Joura originating from DR-62 (Tarn Taran-Patti Road) to village Mahmoodpura in Punjab.

2. **Estimate Provisions:** -

The following provisions have been allowed for estimate purposes

- I. Making up of road formation to achieve 1.0 m above the High Flood Level (HFL) from the bottom of sub-grade with formation width of 10.0 m and 7.0 m carriageway width has been allowed as proposed by State PWD.
- II. Pavement has been designed with minimum 5 msa and 5% CBR has been allowed with the following provisions :-

Provision	Main carriageway	Paved shoulders
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GSB	250 mm	---
WMM	250 mm	---
DBM	50 mm	---
BC	30 m	---

The provision of 55 mm DBM proposed by State PWD has been modified to 50 mm thick.

- III. Construction of subgrade & shoulders with material obtained from roadway cutting & borrowpit. State PWD shall ensure that the earth material utilized for this purpose confirm to relevant Ministry's specification.
- IV. Construction of 0.75 m span slab culverts at RD 875, 1350, 1900, 4325, 5050, 5810, 6780, 7410, 8150, 9500, 10530, 11100, 11520, 12060, 13175, 19750, 20520, 21515, 22435, 23190, 24650, 26800, 27390, 27850, 28210, 29280, 29800 (27 nos.), 1.50 m span slab culverts at RD 3000, 3250, 6020, 16020, 19240 (5 nos.), 3.0 m span slab culverts at RD 3450, 8275, 15920, 19060 (4 nos.) and 6.0 m span slab culverts at RD 10845, 10865, 15960 (3 nos.).
- V. Construction of Retaining wall 2.10 m High at RD 10830 to 10890 (LHS), RD 10950 to 11040 (RHS), RD 13200 to 13300 (RHS), RD 18870 to 19050 (LHS) for a total length of 430 m.
- VI. Providing and erecting a "W" metal beam crash barrier at 810 RD 2600 to 2900 (LHS), RD 3300 to 3450 (RHS), RD 10950 to 11250 (RHS), RD 11800 to 12200 (RHS), RD 13000 to 13300 (RHS), RD 13350 to 13850 (RHS) & RD 15800 to 16050 (Both Side) for a total length of 2450 m.
- VII. Miscellaneous and road safety items like centre line markings & zebra markings, 5th km stones (6 nos.), km stone (24 nos.), hectometer stone (123 nos.), road studs (1500 nos.), reflectorized cautionary, mandatory and informatory sign boards (58 nos.), direction & place identification signage (10 nos.) & road delineators.

3. **Rates:** The estimate is based on rates analyzed as per MoRTH's Standard Data Book.

4. **Cost of the work:** Considering the modifications mentioned in para (2) above the modified cost of the estimate works out to **Rs. 49.32 Crore** including centages as per details given below:

5.1 **Phasing of expenditure:** Following physical and financial targets may be aimed at, depending upon the availability of funds:



Financial Year	Physical progress	Cumulative Financial progress wrt civil work	Cumulative Financial Progress (Rs. crore)	Remarks
2018-19	10%	10%	10.00	Construction period
2019-20	35%	35%	17.26	
2020-21	100%	90%	44.39	
2021-22	100%	95%	46.85	DLP & Maintenance period
2022-23				
2023-24				
2024-25	100%	100%	49.32	
2025-26				

5.2 **Mode of execution and Construction period:** Work shall be executed on EPC mode of contract based on Ministry's Standard RFP document for EPC contract with subsequent amendments. The construction period shall be 24 months for the work. **Before tendering/ uploading of tender documents on e-procurement portal, State PWD shall get all the Schedules & contract document vetted from RO of the Ministry stationed at Chandigarh.**

5.3. The Defect Liability Period and maintenance period for the work shall strictly be as per Ministry's guidelines No. RW/NH-33044/10/2002-S&R (P&B), dated 21.08.2018.

6. **Traffic management during construction:** The traffic should be managed as per section 112 of Ministry's Specifications for Road and Bridge works, 5th Revision, 2013.

7. Specifications:

7.1 All the items of work included in the scope of work will be executed as per Ministry's Specifications for Road and Bridge Works (5th Revision, 2013) and Circulars/ Guidelines issued by the Ministry from time to time. Deviation in specifications for any work should be got approved from the Ministry before adopting the same.

7.2. Adequate tests shall be done by State PWD as per Ministry's specifications and the quality of work done in the past as well as in present/future may be ensured by State PWD. If there are instances of premature failures, necessary action should be taken by State PWD for identifying the reasons for these failures and may fix the responsibilities for such lapses.

7.3. Provision for quality control @ 1% has been deleted from the estimate in line with extant instructions applicable to EPC mode of contract. However, the EPC contractor shall ensure that the work is carried out in accordance with the "Hand Book of Quality Control for construction of Roads & Runways (Second Revision) - IRC: SP: 11-1988", observing strict quality control instructions contained in Ministry's letter No.NHIII/P/1/83 dated 19th April,



1984 and permanent records maintained thereof. Chief Engineer (NH) shall ensure strict quality control during actual execution of work and shall ensure that suitable instructions are issued to all Field Officers in this regard.

7.4. Stipulations made in the Manual for Construction and Supervision of Bituminous works shall be strictly followed during execution of work.

7.5. The existing surface shall be prepared to the required profile in accordance with Clause 501.8 and 902.3 of Ministry's specification. Extra provision required for patching potholes and sealing cracks for preparing the existing surface before laying bituminous layers shall be got executed as per Ministry's specifications.

7.6. Chief Engineer shall ensure that Photography/Videography of the reach shall be prepared before /during / and after execution of the work and submit the same to Ministry and Regional officer, MORT&H, Raipur for reference and record.

7.7. DBM layer shall be covered with the wearing course within a maximum of forty-eight hours. If there is to be any delay, the course shall be covered by a seal coat before opening to any traffic. The seal coat in such cases shall be considered incidental to the work and shall not be paid for separately.

7.8. The work of road items should not continue over the bridges, if any. The longitudinal profile of the immediate approaches should be suitably adjusted to merge with the road level of the bridge as per the guidelines circulated vide Ministry's letter no. RW/NH-33044/10/2000-S&R dated 1st June 2000.

7.9. The work of road marking with stipulated paint (thermoplastic) shall be done as per CI 803 of Ministry's latest specifications and IRC: 35-1997.

8. Splitting of work:

Neither the work nor any item of work shall be split into small parts for awarding the work to a number of contractors. In case, any further splitting is essential due to the specific prevailing conditions, it should be done only after the approval of this Ministry. In this regard, instructions issued in this Ministry's letter No.NHIII/P/25/84 dated 4th August, 1984 may be referred.

9. Invitation of tenders:

9.1 E-Procurement must be adhered to while inviting the tender.

9.2 State PWD will intimate this Ministry and the R.O. Chandigarh about award of contract/commencement of work immediately as per instructions contained in the Ministry's letter No. RW/NH-11028/1/93-(DO-I) dated 1st December, 1993.

10. GENERAL OBSERVATIONS:

10.1 No work beyond the scope of the sanctioned estimate leading either to increase in the scope of work or change in specifications should be undertaken without obtaining prior written approval of the Ministry. In this connection, Ministry's letter No.RW/NHIII/Coord/32/84 dated 19th May, 1984 and letter No.RW/NH-33044/10/2002/S&R (R) dated 9th September, 2002 may be referred.

10.2 Collection of material on the roadside should be so planned that it should commensurate with the physical progress of work and the collected material should not cause any hindrance to the traffic. It must be ensured that the contractor arranges for separate land for storage of road construction material and machinery and these shall not be allowed to be stacked on roadside.

10.3 Bitumen used for the work shall be heated in boilers only and not in drums on open fire. Spraying of bitumen wherever necessary should be done only with the mechanical sprayers and premixing of bitumen and stone aggregates should be done only in the proper mechanical mixer/hot mix plant.

10.4 The provisions made in the estimate are accepted for estimate purpose only. Any savings (in the provisions in the estimate) during execution of the work shall be credited to the estimate.

10.5 In order to ensure that there is no slippage in achieving the targets, the progress may be closely monitored by CE (NH) and quarterly status report furnished to the Ministry and R.O., Chandigarh in the prescribed proforma as per CRF Rules.

10.6. The selection of grade of bitumen to be used for the work shall be as per guidelines issued vide Ministry's Circular No RW/NH-33044/3/98-(S&R) dated 4th November, 1999.

10.7. During the course of execution, the traffic may be regulated in accordance with guidelines laid down vide Ministry's letter no. NHIII-33 (126)/72 dated 20th March, 1973 and Letter No.RW/NH-11060/1/1998-D.O.1 dated 7th October, 1987. Smooth flow of the traffic may be ensured by providing adequate traffic control devices in accordance with stipulation of IRC: SP: 55:2001 "Guidelines on Safety in construction Zone".

10.8. The display boards on development activities of the work shall be made as per guidelines issued vide Ministry's letter no. RW/NH-33044/10/2002-S&R (R) dated 26th May, 2003. The cost of the same will be met out of the provision of contingencies allowed in the estimate.



(Adelbert Susngi)

Superintending Engineer (Z-II)
For Director General (RD) & Special Secretary