

I/4011837/2022

No. NH-12014/62/2021-22-MAH(Z-4)
Government of India
Ministry of Road Transport & Highways
(Zone-4)

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

Dated: 21.03.2022

To

The Secretary to the Govt. of Maharashtra
Public Works Department,
Government of Maharashtra,
Mumbai-400032

Sub:- Rehabilitation & upgradation of Jamkhed to Sautada Section of NH548 D (from km 195.375 to km 208.774, Length - 13.399 Km) to 2L +PS /4L configuration with rigid pavement in the state of Maharashtra on EPC mode.

(Job No. NH-548D -MAH-2021-22-021)

Sir,

I am directed to refer to Chief Engineer (NH), Maharashtra vide letter No. CE(NH)/P-2/AP 2021-22/NH-548D/02/2022 dated 03.01.2022 forwarding an estimate amounting to Rs.163.798 Crore for the above noted work and to say that the estimate has been examined in the Ministry and approved for Rs. 157.62 crore in the light of comments contained in the enclosed Technical Note dated 21.03.2022 and SFC minutes of meeting held on 08.03.2022.

2. I am to convey the technical, administrative and financial sanction of the President of India to the estimate amounting to Rs 157.62 crore (Rupees One Hundred Fifty Seven Crore Sixty Two Lakh only).

3. The work has been assigned Job No. NH-548D -MAH-2021-22-021. This Job No. may be quoted in all future correspondence regarding this work.

4. 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 (NH Original Works), 03.01 Works financed from Central Road Fund 03.01.53 Major Works under demand No. '85'- Ministry of Road Transport & Highways NH (O) for the year 2021-22.

5. In accordance with the orders contained in this Ministry's letter No. 24035/4/2008-P&M/PIC Vol II dated 23.2.2018 addressed to the State Public Works Department, if the cost of tender exceeds 5% of sanctioned estimated cost, the revised estimate has to get sanctioned from the Ministry and all the works above Rs. 5.00 crore is to be taken up on EPC mode. Further, the tenders for the work shall be invited by adopting e-procurement/e-tendering procedure as per Ministry's Circular No. RW/NH-24035/4/2008-P&M/PIC dated 21.05.2011, in addition to guidelines issued by this Ministry's Circular letter No. RW/NH-11024/3/99/US(D-I) dated 09.03.2000, No. RW/NH-24035/4/2008-P&M dated 21.05.2010 No. NH-12037/67/2010LWE dated 02.08.2010 and RW/NH-34066/14/2018-S&R(P&B) dated 25.6.2018. The work shall be awarded as per guidelines issued by the Ministry vide letter No. NH-15015/29/2001-PL dated 05.07.2001.

6. It is requested that arrangements may be made for the submission of quarterly

1/3

I/4011837/2022

progress report in respect of this work by the Executive Engineer concerned to the Director General (Road Development) Government of India.

7. On completion of 50% work if the 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 necessary for incurring expenditure beyond permissible limits arises.

8. 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.

9. The Regional Officer, M/o RT&H, Mumbai will be Drawing and Disbursing Officer.

10. The following physical and financial target shall be strictly adhered to. Phasing of expenditure shall be as given below: -

Year	Cumulative progress				
	Milestone	Financial (Rs. in Cr.)			
		Physical	Construction	Maintenance	Total
2021-22	Preliminary	Prelim.	5.00	0.00	5.00
2022-23	Under implementation	40%	60.38	0.00	60.38
2023-24	Completion	100%	150.96	0.00	150.96
2024-25 to 2034-35	Maintenance	100%	150.96	6.66	157.62

11. This sanction issues with the concurrence of the Finance Wing vide Note #09 dated 16.02.2022.

12. The condition of the road should be recorded by the Network Survey Vehicle before the start of work and during the execution, completion and the defect liability period before payments are released and the same should be clearly specified in the tender documents/agreement.

Yours faithfully,

Encl: -As above.

(Kamal Parkash)

Under Secretary to the Government of India

Copy to:

1. The Chief Secretary to the Govt. of Maharashtra, Mumbai-400032.
2. The Chief Engineer (NH), National Highways, Room No-527, Konkan Bhawan, Navi Mumbai-400614.
3. The Regional Officer(Mumbai), Office of Regional Officer, M/o RT&H Maharashtra & Goa, Room No. 508-509, 5th Floor, Konkan Bhawan, CBD Belapur, Navi Mumbai-400614
4. The Principal Director of Audit, Economics and Services Ministries, AGCR



2/3

I/4011837/2022

- Building, IP Estate, New Delhi
5. PF-I Division, Ministry of Finance, North Block, New Delhi.
 6. The Secretary, Deptt. of Finance, Govt. of Maharashtra, Sachivalaya, Mumbai-400032.
 7. The RPAO, M/o RTH, 3rd Floor, Cavasji Patel Street, Mehar House, Mumbai.
 8. The Pay & Accounts Officer, Ministry of Road Transport & Highways (RW), IDA, Building, Jamnagar House, Shahjahan Road, New Delhi.

(Kamal Parkash)

Under Secretary to the Government of India

Signed by Kamal Parkash

Date: 22-03-2022 11:49:57

Reason: Approved

NH-12014/62/2021-22-MAH(Z-4)
Government of India
Ministry of Road Transport and Highways
(Project Zone-4)

Dated: 21.03.2022

TECHNICAL NOTE

1.	Name of work	Rehabilitation & upgradation of Jamkhed to Sautada Section of NH548 D (from km 195.375 to km 208.774, Length - 13.399 Km) to 2L +PS /4L configuration with rigid pavement in the state of Maharashtra on EPC mode.	
2.	NH No.	NH-548D	
3.	State and Division	Maharashtra & National Highway Division, Nashik	
4.	Estimated cost (Rs. in Cr.)	As submitted by State PWD 163.798	As modified in the Ministry 157.62
5.	Length in km	13.39	13.39
6.	Cost / km (Amount in Rs. Lakhs)	12.23	11.77
7.	Reference	Letter No. CE(NH)/P-2/AP 2021-22/NH-548D/02/2022 dated 03.01.2022 received from CE (NH) PWD, Maharashtra	

COMMENTS

1. Scope of work:

Scope of work Rehabilitation & upgradation of Jamkhed to Sautada Section of NH548 D (from km 195.375 to km 208.774, Length 13.399 Km) to 2L +PS /4L configuration with rigid pavement in the state of Maharashtra on EPC mode..

2. Details of Work:

2.1 Main carriageway-

2.1.1 Crust Composition (Rigid Pavement) (Length=13.399 km)

Design Life-30 years (CVPD-1533, Effective CBR- 8%)

(i) GSB - 150 mm thick

(ii) DLC - 150 mm

(iii) PQC - 280 mm thick (M-40)

2.1.2 Length of main carriageway is 13.399 km comprising of

Malviya

(i) Concentric Widening -13.399 kms

(ii) Eccentric widening -0.000 kms

2.1.3 The above project Section is having Typical Sections in length of

(i) 2 lane highway with Paved Shoulder in open country 5.619 Kms

(ii) 2 lane highway with Paved Shoulder in Hilly Section 2.540 Kms

(iii) 4 lane highway in built up section with flexible shoulders - 3.625 Kms

(iv) 2 lane highway with Paved Shoulder in Builtup Area - 1.615 Kms

Total - 13.399 kms

2.1.4 Crust Composition (Flexible Pavement) for Bituminous Shoulder (Builtup Area)

(i) Bituminous Concrete 40 mm

(ii) Dense Graded Bituminous Macadam 70 mm

(iii) Wet Mix Macadam 250 mm

(iv) Granular Sub Base 220 mm

2.2 Junction Improvements

2.2.1 Major Junctions - 03 Nos

- Major T junction @ Km 196+875 (SH-157)
- Major T junction @ Km 197+018 (Major Road at Jamkhed City)
- Major T junction @ Km 200+030 (Jamkhed Patoda State Highway)

2.2.2 Minor Junction- 12 Nos

2.3 Culverts -

2.3.1 Pipe culverts - Existing - 06 Nos

(i) Reconstruction - 06 Nos.

(ii) Widening - Nil

(iii) New Construction - 13 Nos.

Total Proposed- 19 Nos.

2.3.2 Box Culverts - Nil (Existing)

2.3.3 Slab Culvert - 03 Nos. (Existing)

(i) Reconstruction - 03 Nos.

(ii) New Construction - 01 Nos.

Total proposed - 04 Nos.

2.4 Bridges -

2.4.1 Major Bridges -

(i) Existing - 01 No.

(ii) Widening of existing bridge 01 No.

Malini

Sr. No.	Design Chainage (Km)	Existing Width (m)	Extent of widening (m)	Cross-section at deck level for widening
1	195+960	8.1	3.0	11.1

(iii) New construction parallel to existing - 01 No.

Details of Proposed structure				
Sr. No.	Design Chainage (Km)	Span Arrangement (m)	Proposed Width (m)	Type of Bridge
1	195+960	9 X 9	11.0	RCC

Total - 02 No.

2.4.2 Minor Bridges - Existing - 03 Nos.

(i) Reconstruction - 03 Nos.

Details of Proposed structure					Remarks
Sr. No.	Design Chainage (Km)	Span Arrangement (m)	Proposed Width (m)	Type of Bridge	
1	200+880	2X6	16	RCC	Reconstruction of Existing Bridges
2	202+060	2X8	16	RCC	
3	207+120	1X10	16	RCC	

(ii) New Construction parallel to exiting bridge - Nil

(iii) Widening - Nil

(iv) Retained - Nil

Total - 03 No.

2.5 Toll Plaza - Nil

2.6 Traffic Control Devices, Road Safety Work and Road Furniture: Taken as per provision of manual.

2.7 Miscellaneous Work: The provision of slope and shoulder protection, high embankment protection, utility ducts, RCC drains cum footpath in built up section have been taken.

2.8 Project Facilities-

The provision of project facilities in accordance to requirement of manual such as

- (i) Road Boundary, Km and 200 m stones
- (ii) Street lighting in habitation and structure approaches.
- (iii) Bus Shelters (3x2=6 Nos)

2.9 Safety and Traffic Management during Construction-

The provision of traffic management as per clause 112 of Ministry specification during construction have also been taken in cost estimates by providing diversion of 7.00m at Bridge reconstruction locations & shall be maintained by the EPC contractor.

Malini

2.10 Utility Shifting:

There exist electrical and water utilities in ROW which are required to be shifted. NH Division Nashik, State PWD has prepared an estimate for existing utilities present which are required to be shifted of total amount Rs. 4.12 Cr.

3 Utility Shifting:

There exist electrical and water utilities in ROW which are required to be shifted. NH Division Nashik, State PWD has prepared an estimate for existing utilities present which are required to be shifted of total amount Rs. 4.12 Cr.

4. Land Acquisition:

4.1 The details of LA is as follows:

Particulars	Details	Remark
Total Land required	33.50 Ha	
Total Land available	29.86 Ha	
Total Land to be acquired	3.64 Ha	Private Land= 1.07 Ha and Forest Land= 2.57 Ha. Realignment- Nil Curve Improvement- 1.07 Ha (Length=1.40 Km) Toll Plaza= Nil Cross Section Fitting = 2.57 Ha (Length=1.20 Km)

4.2 PWD(NH) has proposed provision of 2.416 crores for LA.

5. Cost Estimate:

Sr. No.	Items	Cost in Rupees	Cost in crore
A1	<u>Widening and strengthening of existing road</u>		
1	Site Clearance including dismantling	4766796.22	0.48
2	Earthwork	121176184.29	12.12

Mahesh

3	Granular work (sub-base, base, shoulders)	94061340.55	9.41
4	Bituminous work		
	(a) BC	7542906.12	0.75
	(b) DBM	12545690.86	1.25
	Total Bituminous Work	20088596.98	2.01
5	Cement Concrete pavement work		
	(a) PQC	378083557.76	37.81
	(b) DLC	97933975.20	9.79
	Total CC Work	476017532.96	47.60
6	Slip Roads	0.00	0.00
	Sub total A1	716110451.00	71.61
A2	Major Bridge Works	59856212.00	5.99
	Sub total A2	59856212.00	5.99
A3	<u>Culverts, minor bridges, underpasses, overpasses on existing road, realignments and bypasses:</u>	-	
1	Culverts	37856105.94	3.79
2	Minor bridges	50686486.28	5.07
3	Cattle / Pedestrian underpass	0.00	0.00
4	Pedestrian overpass	0.00	0.00
5	Grade Separated structures	0.00	0.00
6	Light Vehicular Underpass (LVUP)	0.00	0.00
7	Overpass	0.00	0.00
	Sub total A3	88542592.22	8.85
A4	OTHER WORKS		
1	Toll Plaza	0.00	0.00
2	Road side drains	93435181.73	9.34
3	Protection Works (Retaining Wall, Toe Wall, Pitching of Stone)	63625879.04	6.36
4	W-Metal Beam Crash Barrier	6667500.00	0.67

Malini

5	Road signs, markings, km stones, Boundary stones, safety devices, utility ducts etc.	22135686.36	2.21
6	Bus Shelter and Truck lay Bay	1500000.00	0.15
7	NJ Type Barrier for Median/Divider @ 4 Lane Locations	9780869.42	0.98
8	Junctions	56782101.38	5.68
9	Street Lighting in Towns	11957994.40	1.20
10	Utility Duct (Across the Road & Along Builtup Sections)	18284379.37	1.83
11	Horticulture (Tree Plantation & Its maintenance)	0.00	0.00
11	Utility Shifting Cost		
	a. Electrical works	31847235.39	3.19
	b. Water supply works	9338052.60	0.93
	Sub total A4	325354879.70	32.54
A	CIVIL COST (A) = A1+A2+A3+A4	1189864134.91	118.99
B	Add GST @12% of civil cost	142783696.19	14.28
C	Cost of Civil Works including GST (A+B)	1332647831.10	133.27
D	Maintenance Charges (For 10 years @ 5% of C)	66632391.56	6.66
E	Contingencies @ 1% of (A)	11898641.35	1.19
F	Agency Charges 3% on (A)	35695924.05	3.57
G	Supervision 3% on (A)	35695924.05	3.57
H	Price Escalation: 5% on C	66632391.56	6.66
	Total project cost	1549203103.66	154.92
I	Land Acquisition	24162741.79	2.42
J	Tree Cutting and Compensatory Plantation	2848065.00	0.28
K	Total Capital cost of the project	1576213910.45	157.62

6. Modifications:

The State PWD has submitted the cost estimate for the instant work amounting to Rs. 163.798 Cr. which has been modified to Rs. 157.62 Cr. The following modifications are made in the estimates:

Mahip

(i) Royalty Amount is added in the Rate Analysis. Previously, it was separately added in the Cost Abstract.

(ii) GST on the Civil Cost was added @18%, which is changed to 12%.

(iii) Amount of Tree Cutting & Compensatory Plantation was added in the Civil Cost, which has now been shifted to Pre Construction Activities.

(iv) Previously, width of Earthen Shoulders was taken 2.0 m. The same has been revised to 1.0 m as per MoRTH circular. Accordingly, calculations of Sub grade, GSB, C&G etc. have been revised

(v) Number of minor junction have been revised from 7 to 12, resulting in increase in cost of junction improvement.

(v) Cost of utility shifting was modified based on submissions of EE(NHD) Nashik.

7. The project will be executed on EPC mode and detailed design has to be carried out by the contractor as per EPC documents. The EPC Contractor shall design as per design requirement subject to minimum technical requirement which needs to be ensured by State PWD incorporated in Schedule 'B' of the Draft Contract Agreement to be issued along with the RFP. CE (NH), Maharashtra PWD, shall check the draft RFP document along with schedules viz.-a-viz. provisions specified in this technical note before inviting tender.

8. **Design specifications:** 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), IRC-37-2018 and those mentioned in the EPC document. Circulars/ Guidelines issued by the Ministry from time to time shall be referred to. Deviation in specifications for any work should be got approved from the Ministry before adopting the same.

Condition of the road should be recorded by Network Survey vehicle before the start of work and during the execution, completion and the defect liability period before payments are released and the same should be clearly specified in the tender documents/agreement.

9. Traffic management during construction

9.1 Traffic management should be done as per clause 112 of Ministry's specification, during the construction period it may be insured that the traffic is regulated in conformity to Ministry's guidelines stipulated in clause No.8.2.3 'Manual for construction and supervision of bituminous work.'.

9.2 The nomenclature and clause numbers of the items shall be specified as per MORTH specification for Road and Bridge work 2013 (5th revision) and all the works shall be executed strictly as per Ministry's specifications/ Ministry's circular/ guidelines issued from time to time.



- 9.3 Directions issued vide Ministry's circular no. RW/NH-35072/05/2018-S&R(P&B) dated 24.08.2018 and Ministry's circular no. RW/NH-33044/127/2016-S&R(P&B) dated 06.08.2018 shall be strictly comply during execution and tendering. As per Ministry's circular dated 24.08.2018 only VG-40 shall be used for DBM/BM layer and for BC layer modified bitumen (using polymer/ crumbed rubber/ natural rubber or VG-40 grade bitumen has to be used. The bitumen/modified bitumen shall be procured from the refineries only.

10. Contract Documents:

- 10.1 Single stage two-cover bidding is to be adopted as per instructions conveyed vide Ministry's letter no. RW / NH-37010 /4 /2010 / PTC dated 27.05.2014 and other amendment issued till date.
- 10.2 RFP and draft contract documents may be adopted as per the draft Model RFP and EPC documents circulated by Ministry vide circular No. RW/NH-37010/4/2010-EAP (Printing) Vol. - IV dated 05.03.2019 and all amendments issued till the date of invitation of bids.
- 10.3 Construction period for this work shall not be more than 18 months including the rainy period. Defects liability period and maintenance period shall be 10 years as specified in the amendments to Model EPC Document issued vide Ministry's letter no. RW/NH-37010/4/2010-EAP (Printing) Vol. - IV dated 05.03.2019.

11. Invitation of tenders and award of works:

- 11.1 Procedure as per instructions conveyed vide Ministry's letter no. RW/ NH-24035/4/2008/P&M/PIC Vol II dated 23.02.2018 is to be adopted for award of works.
- 11.2 The time limit for awarding of this work is 6 months from the date of sanction and should be strictly followed as per the instructions communicated to all State PWDs vides this Ministry's letter no. RW/ NH- 24035/4/2008/P&M/PIC Vol II dated 23.02.2018 and compliance reported to the Ministry. If the work is not awarded within the stipulated time, it may lead to de-sanction of the work unless Ministry's prior approval to extension of the time limit is obtained.
- 11.3 It is the responsibility of the executing agency (State PWD/MSRDC) to ensure availability of encumbrance free working front to the Contractor at the time of declaration of 'Appointed Date', and in case the project entailed any revision in cost estimates on account of authority default, any such incremental costs would have to be borne by the State PWD/MSRDC
- 11.4 CE (NH), State PWD will intimate this Ministry about award of contract/commencement of work immediately as per instructions contained in this Ministry's letter no. RW/NH-37010/4/2010/PIC-EAP(Printing) dated 16.01.2017.

Malini

- 11.5 E procurement must be adhered to while inviting tender for the work.
- 11.6 The tenders for the work shall be invited on EPC mode as per guidelines issued by this Ministry vide circular letter No.RW/NH-24035/4/2008-P & M/PIC dated 21.05.2011 in addition to guidelines issued by this Ministry vide circular Letter No. RW/NH-11024/3/99-US (D-1) Dated 9.3.2000, No. RW / NH 24035 / 4 / 2008 - P&M dtd. 21.05.2010.
- 11.7 While accepting tenders that the overall cost of estimate at tender rates including contingencies, supervision charges and agency charges does not exceed by more than 5% of sanctioned cost.
- 11.8 Excess in tender cost is caused only by routine factors such as increase in cost of labor or material.
- 11.9 Excess due to change of scope or enlargement / reduction of work or specifications as already approved in the sanctioned estimate would require prior approval of Ministry.

12. General

- 12.1 The provision of Project contingencies, supervision charges and agency charges should be utilized as per Ministry's circular letter no. NH-15017/17(2)/2016-P&M dated 16.06.2016. For any other item, which is not covered in the above circular necessary approval of Ministry (in principle) with the recommendation of Concerned RO should be taken before execution. However, sub-estimate for the same should be got approved from Concerned RO, before execution.
- 12.2 The estimates for carrying out the activities under the provision of contingencies including change in scope of work will be approved by Ministry on assurance/certification by Authority's Engineer/CE (NH), PWD Department that the amount provided against contingencies is available and the same has not been indirectly utilized by accepting higher tender rates. Authority's Engineer/ENC/CE (NH), PWD Department shall also certify that approval of estimates to be charged to contingencies will not cause revision of the sanctioned estimate.
- 12.3 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.
- 12.4 No work beyond the scope of the sanctioned estimate leading to increase in the scope of the work or change in specification should be undertaken without obtaining prior written 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. In this connection, this

Ministry's letter No. RW/NHIII/Coord/32/84 dated 19.5.84 and NH-11026/2/99-US (DI) dated 29.10.2001 may be referred.

- 12.5 In order to ensure that there is no slippage in achieving the targets, the progress may be closely monitored by ENC/CE (NH), Departmental quarterly status report be furnished to the Ministry in the prescribed proforma.
- 12.6 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 20.03.1973 and letter No.RW/NH-11060/1/1998-D.O.1 dated 07.10.1987. 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".
- 12.7 It is observed that simultaneous working at large number of work fronts in long stretches is causing severe inconvenience to traffic during construction. Therefore, it is suggested that fronts may not be operated in more than 3 km length simultaneously, without completing the bituminous surfacing in the stretches where excavation/granular layers are carried out. Suitable provisions in the contract shall be incorporated for proper traffic management.
- 12.8 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.
- 12.9 The work is to be carried out in accordance with the "Hand Book of Quality control for construction of Roads and Runways (Second Revision)-IRC SP:11-1988", observing strict quality control instructions contained in the Ministry's letter No.NH-III/P/I/83 dated 19 April 1984 and permanent records maintained thereof.
- 12.10 The independent quality control tests of all items from any of the accredited laboratories as per IRC: SP:94-2011 shall be carried out from the quality control provision in estimate to ensure the quality of work.
- 12.11 Neither the work nor any item of work shall be split into small parts for awarding the work to a number of contractors. In this regard, instructions issued in this Ministry's letter No.NH-III/P/25/84 dated 4/8/1984 may be referred
- 12.12 Guidelines for Road Safety vide Ministry's letter No. RW/ NH-33072/04/2004-S86R(R) dated 27.04.2012 shall be followed wherever applicable.
- 12.13 Condition of the road should be recorded by Network Survey vehicle before the start of work and during the execution, completion and the defect liability period before payments are released and the same should be clearly specified in the tender documents/agreement.

Mahesh

13. Cost of work.

- 13.1 The estimate is based on rates of SSR 2021-22 (for state of Maharashtra) and same is verified by State PWD. Necessary Rate Analysis (RA) wherever required has been prepared and attached to the estimates. It is presumed that CE (NH), of State PWD while forwarding the proposal has satisfied himself about the adequacy and workability of the rates of various items of work and that rates adopted in the estimate are latest and no revision of the rates has occurred till date.
- 13.2 The lead for the carriage of different materials as proposed in the estimate has been allowed for estimate purpose only. However, while calling tenders the sources may not be indicated. 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 shall be allowed.
- 13.3 In view of the above comments, the cost of the estimate amounts to **Rs. 157.62 Cr.** including 3% agency charges.

14. Targets:

Following physical and financial targets shall be strictly adhered to subject to the availability of funds:

Year	Milestone	Cumulative progress			
		Physical	Financial (Rs. in Cr.)		
			Construction	Maintenance	Total
2021-22	Preliminary	Prelim.	5.00	0.00	5.00
2022-23	Under implementation	40%	60.38	0.00	60.38
2023-24	Completion	100%	150.96	0.00	150.96
2024-25 to 2034-35	Maintenance	100%	150.96	6.66	157.62

Mahipal
21/08/22

(Mahipal Singh)

Executive Engineer

For Director General (RD) & Special Secretary