

of Zone II
2p.

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT

ESTIMATE

For

NAME OF WORK : WIDENING & STRENGTHENING OF
MANOHARPUR TO ITAWA BHOPJI VIA
NAWALPURA CHARANWAS (MDR-187)
INCLUDING CD WORK AT MANOHARPUR
RIVER

ESTIMATED COST : Rs. 1940.00 Lacs

PROJECT CHAINAGE : KM. 0/00 (MANOHARPUR) TO KM. 21/300
(DHAWLI) & KM. 37/00 (NANGAL
BHARDA) TO KM. 44/00 (ITAWA BHOPJI)

LENGTH : 28.300 KM.

NAME OF ZONE : P.W.D. ZONE-II, JAIPUR

NAME OF CIRCLE : P.W.D. RURAL CIRCLE, JAIPUR

NAME OF DIVISION : P.W.D. DISTT. DN. SHAHPURA /
PHULERA

NAME OF SUB. DN. : P.W.D. SUB. DN. AMARSAR / CHOMU

NAME OF WORK

**: WIDENING & STRENGTHENING OF
MANOHARPUR TO ITAWA BHOPJI VIA
NAWALPURA CHARANWAS (MDR-187)
INCLUDING CD WORK AT
MANOHARPUR RIVER**

CERTIFICATE FOR CORRECTNESS OF ESTIMATE

Certified that I/We have checked estimate of above work as per ROAD BSR PWD Rural Circle, Jaipur effective from March, 2018 with all subsequent corrigendum for road works. The rates, nomenclature & calculations checked by me and found correct



**ASSISTANT ENGINEER
P.W.D. SUB. DN. AMARSAR**



**EXECUTIVE ENGINEER
P.W.D. DISTT. DN. SHAHPURA**




**Executive Engineer
Executive Engineer,
PWD Distt Dn. Shahpura,
Jaipur**


NAME OF WORK :

**WIDENING & STRENGTHENING OF MANOHARPUR
TO ITAWA BHOPJI VIA NAWALPURA CHARANWAS
(MDR-187) INCLUDING CD WORK AT
MANOHARPUR RIVER**

CERTIFICATE

- 1 "Certified that no land acquisition is required and land needed for the project is available free of all incumbrances."
- 2 "Certified that No shifting of utilities is involved in the proposed work."
- 3 "Certified that no requirement of cutting of trees is required for the proposed work."
- 4 "Certified that no part of road work already sanctioned / proposed in other schemes".
- 5 "Certified that rates, nomenclature and all calculations have been checked and found correct".
- 6 "Certified that all items of Road Safety and Development works have been included in the estimate at black spots".
- 7 "Certified that this project (Km 5/900 to 15/300) is under Defect Liability Period (DLP)".
(DLP ending date is 22.10.2018 & type of treatment 20mm P.M.C.)
In this reach widening is proposed from 3.0/3.75 mtr. To 5.50 mtr. Width as well as 50mm DBM and 30mm BC is taken for strengthening and make the uniformity of road the surface because of importance of the roads. The Amount of DLP @ 100% per year shall be deducted from the contractor SD before Execucation of the work & approval from competent authority.
- 8 Certified that the road passes through forest area in 1.00 Km Length between Mamtori and Gona Ka Bas for which aproval will be taken from the forest department Very Shortly, the Proposal for Sanction is under pipe line. The provision of NPV amount is taken in the estimate.


ASSISTANT ENGINEER
P.W.D. SUB. DN. AMARSAR


EXECUTIVE ENGINEER
P.W.D. DISTT. DN. SHAHPURA


Executive Engineer
PWD Distt Dn. Shahpura,
Jaipur

TECHNICAL REPORT

- 1 Name of Work : **WIDENING & STRENGTHENING OF MANOHARPUR TO ITAWA BHOPJI VIA NAWALPURA CHARANWAS (MDR-187) INCLUDING CD WORK AT MANOHARPUR RIVER**
- 2 District : Jaipur
- 3 Important towns /villages covered :

Name of Town / Village	Chainage
1 Manoharpur	Km 0/00
2 Nawalpura	Km 5/200
3 Gonakasar	Km 12/500
4 Nayabas	Km 15/300
5 Sepatpura	Km 17/500
6 Dhawli	Km 21/00
7 Parmanpura	Km 24/00
8 Barwara	Km 34/500
9 Nangal Bharda	Km 37/500
10 Itawa Bhopji	Km 44/00
- 4 Proposed Length of road : **28.300 KM.**
- 5 Assembly Constituencies : Shahpura
- 6 Existing width (Mtr.) : 3.00 Mtr. & 3.75 Mtr.
- 7 A & F Sanction : **CE & AS Letter No. F-7(76)/Sec.-II/2018-19 D-21 Dated 20.04.2018 Rs. 1940.00 Lacs**
- 8 Job No. : **6/5054/SM&R/Gn./P/2018-19**
6/5054/SM&R/SC/P/2018-19
6/5054/SM&R/ST/P/2018-19
- 9 Traffic Details :

PCU (as per Traffic Census in April, 2018)	1855
CVPD (as per Traffic Census in April, 2018)	324
Growth Rate	5.00%
- 10 Necessity of work : The offtake point of this road is Km 0/0 at manoharpur which laying on NH-08 and passes through SH-37 at Dhawali and reach to SH-37C at Itwa Bhopji. There is near Barwara important religious palace Veer Hanuman Ji temple situated as well as by this route we can reach another religious palaces like Khatu Shyam ji temple and Jeen Mata with short distance from Manoharpur area. This road is shortest route from Manoharpur area to important cities like Chomu, Ringus and Sikar etc. due to heavy and dense traffic the road surface got damaged and crust of this road has been also failed. Therefore it is necessary to rebuilt upto required 5.50 mtr. width hard shoulder as per required on the basis of the present traffic data.
- 1 Proposal : Carriage Way Width 3.00Mtr. / 3.75 Mtr. To 5.50 Mtr. With Hard Shoulder.
- 2 Specification :

(A) For Widening (As per IRC:37:2012)

(i) Sub base : GSB 150mm

(ii) Base Coarse : WMM 250mm

- (B) For Strengthening in stretches as detailed in scope of work (As per IRC:37-2012)
- Sub base - 150mm
 - Base Course - 150mm

- (C) For Bituminous Course (As per IRC:37-2012)
- DBM - 50mm Thick
 - BC - 30mm Thick Grading - 2

- (D) For Overlay over Existing BT Surface (As Per BMD Tests)
- DBM - 50mm Thick
 - BC - 30mm Thick Grading - 2

- (E) C.C. Pavement (As Per IRC:58:2015)
- GSB : 150mm Thick as sub Base
 - WMM - 100mm thick as Base Course
 - M-30 - 200mm thick

- (F) Shoulders
- GSB - 150mm thick & 1.50mtr. Width on either side of BT road

- (G) For Road Furnishing
- Semi reflective cautionary, mandatory and informatory sign board as per IRC:67
 - Erecting typical Citizen's information Board as per approved drawing & specification of MoRTH made of two MS sheet of 1.6 mm thick each of size 900mm x 750mm stiffened by angle iron 25mmx25mm x 3mm For CRF
 - Marking Centre Line and stop lines etc. on road as per IRC pattern with thermoplastic paint
 - Chevron Board & Cat Eye's as per requirement on curves and hazard marker breakers.

- (H) For Protection Work
- 150mm P.C.C grade M 10 Nominal mix 1:3:6
 - Random Rubble Masonry in cement mortar 1:6
 - PCC M-20 architectural coping
 - Pointing on wall taken

- (I) For Drain Work (Manoharpur, Nawalpura, Naya Bas, Dhawli)
- 100mm P.C.C grade M 10 Nominal mix 1:3:6
 - M-20 for Drain wall of 150mm thick.
 - RRM in CM 1:4
 - Ferrow Cement Covers as required

3 BSR

PWD Rural Circle, Jaipur Road BSR w.e.f. March, 2018 and NH Circle Jaipur BSR effective from February, 2018

4 Estimated Cost

Rs. 1940.00 Lacs

Assistant Engineer
P.W.D. Sub Dn. Amarsar

Executive Engineer
P.W.D. Distt. Dn. Shahpura
Jaipur

Superintending Engineer
P.W.D. Rural Circle,
Jaipur

Executive Engineer
P.W.D. Distt. Dn. Shahpura,
Jaipur

Scanned by CamScanner

(B) For Strengthening in stretches as details of chainage shown in scope of work (As per IRC:37:2012).

- (i) Sub base GSB 150mm
- (ii) Base Coarse : WMM 250mm

(C) For Bituminous Coarse (As per IRC:37:2012).

- (i) DBM - 50mm Thick
- (ii) BC - 30mm Thick Grading -2

(D) For Overlay over Existing BT Surface (As Per BBD Test).

- (i) DBM - 50mm Thick
- (ii) BC - 30mm Thick Grading -2

(E) C.C. Pavement (As Per IRC:58:2015)

- (i) GSB : 150mm Thick as sub Base
- (ii) WMM - 100mm thick as Base Course
- (iii) M-30 - 200mm thick

(F) Shoulders

- (i) GSB - 150mm thick & 1.50mtr. Width on either side on BT road

(G) For Road Furnishing

- (i) Semi reflective cautionary, mandatory and informatory sign board as per IRC:67
- (ii) Erecting typical Citizen's information Board as per approved drawing & specification of MoRTH made of two MS sheet of 1.6 mm thick each of size 900mm x 750mm stiffend by angle iron 25mmx25mm x 3mm For CRF
- (iii) Marking Centre Line and stop lines etc. on road as per IRC pattern with thermoplastic paint
- (iv) Chevron Board & Cat Eye's as per requirement on curves and hazard marker breakers.

(H) For Protection Work

- (i) 150mm P.C.C grade M 10 Nominal mix 1:3:6
- (ii) Random Rubble Masonry In cement mortar 1:6
- (iii) PCC M-20 architectural coping
- (iv) Pointing on wall taken

(I) For Drain Work (Manoharpur, Nawaipura, Naya Bas, Dhawli)

- (i) 100mm P.C.C grade M 10 Nominal mix 1:3:6
- (ii) M-20 for Drain wall of 150mm thick.
- (iii) RRM in CM 1:4
- (iv) Ferrow Cement Covers as required

3 BSR

: PWD Rural Circle, Jaipur Road BSR w.e.f. March, 2018 and NH Circle Jaipur BSR effective from February, 2018

4 Estimated Cost

: Rs. 1940.00 Lacs



Assistant Engineer
P.W.D. Sub Dn. Amarsar



Executive Engineer
P.W.D. Distt.Dn. Shahpura
Jaipur



Superintending Engineer
P.W.D. Rural Circle,
Jaipur

Executive Engineer
PWD Distt Dn. Shahpura,
Jaipur

OFFICE OF THE ADDL. CHIEF ENGINEER, PWD ZONE-II, JAIPUR
PWD CUMPAS JOCAB ROAD, OPP. JAIPUR CULB, JAIPUR

Ph. No. 0141-2226537 Extn.-249, 243, 299, 227

No. :- T.S- 1204

Date :- 2/05/2018

The Superintending Engineer,
Public Works Department,
Circle-Rural, Jaipur.

Sub:- Widening & Strengthening of Manoharpur to Itawa Bhopji via
Nawalpura Charanwas (MDR-187) including CD work at
Manoharpur River (Job No. 6/5054/SM&R/Gn./SC/ST/2018-19).

Ref.:- Your letter No. 577 Dated 25.04.2018.

Sir,

The estimate of the above noted work as received for Rs 1940.00 lacs has been technically scrutinized in this office. The technical sanction is hereby accorded to the estimate for the above mentioned work amounting to Rs. 1940.00 lacs (Rupees One Thousand Nine Hundred Forty Point Zero Zero lakh only), based on BSR Circle Rural, Jaipur w.e.f. March, 2018 for road work and NH Circle Jaipur from Feb, 2018 as per observations contained in the technical note.

Administrative and financial sanction for Rs. 1940.00 lacs has issued by The Chief Engineer and Addl. Secretary, PWD Rajasthan, Jaipur No. F-7(76)/Sec-2/2018-19/D-21 dated 20.04.2018 Chargeable budget head Demand No.-SM&R/MDR works Demand No. 21 GEN 5054-03-337-(04)-74, Demand No. 51 SC 5054-03-789(03)-74, Demand No. 30 ST 5054-03-796(03)-74.

The stretches from chainage 5/900 to 15/300 (9.40 Km.) of the said road are under DLP upto 22.10.2018. Therefore SE/EE are directed not take up any work in these DLP stretches unless otherwise DLP is expunged from DLP contractor by the competent committee as per Chief Engineer & Addl. Secretary PWD Rajasthan, Jaipur office order NO. 690 dated 07.09.2016.

The expenditure of this work is restricted within the A&F sanction & budget allotment.

One copy of the sanctioned estimate is enclosed herewith for necessary action.

Encl.- 1. Estimate.
2. Technical Note.

Yours faithfully,

(Sunil Kumar Gupta)

Addl. Chief Engineer

PWD, Zone-II, Jaipur

No.

Date :-

Copy submitted to the Executive Engineer, PWD, Dn.- Shahpura/Phulera for information.


Executive Engineer
PWD Distt Dn. Shahpura,
Jaipur

(Anoop Gahrana)
Project Director (State BOT)
PWD, Zone-II, Jaipur

**NAME OF WORK : WIDENING & STRENGTHENING OF MANOHARPUR TO ITAWA
BHOPJI VIA NAWALPURA CHARANWAS (MDR-187) INCLUDING CD WORK AT
MANOHARPUR RIVER**

GENERAL ABSTRACT

S. No.	Item	Amount
1	2	3
1.	PART - A : ROAD WORK	138632658.00
2	PART - B : PROTECTION WORK	4156764.00
3	PART - C : SYPHON	140091.00
4	PART - D : ROAD FURNISHING	2140750.00
5	PART - E : VENTED CAUSEWAY	18075482.00
6	PART - F : HP CULVERT - 1000MM DIA SINGLE ROW	409744.00
7	PART - G : DRAIN WORK	5869023.00
Total		169424512.00
Add.: L.O. for Quality Control		16,94,245.00
Add.: 0.5% for Contingency & Quality Control		2541368.00
		847123.00
Add.: Forest Clearance (NPV Amount)		700000.00
Total		172665880.00
Recovery :- Serviceable Material (1593 Cum @ 618)		(-) 984474.00
Total		171681406.00
Add.: 13% for Prorata Charges		22318583.00
Total		193999989.00
Say		Rs. 1940.00 Lacs



ASSISTANT ENGINEER
P.W.D. SUB. DN. AMARSAR


EXECUTIVE ENGINEER
P.W.D. DISTT. DN. SHAHPURA

No. 204 Dated 2/05/18
Technically Sanctioned for Rs. 1940.00 Lacs
In words One thousand nine hundred and forty lakh only.
As per Enclosed Technical Note & T's Letter
No. _____ Dated _____


SUPERINTENDING ENGINEER
P.W.D. RURAL CIRCLE, JAIPUR

T.A.


Addl. Chief Engineer
P.W.D. Zone II, Jaipur

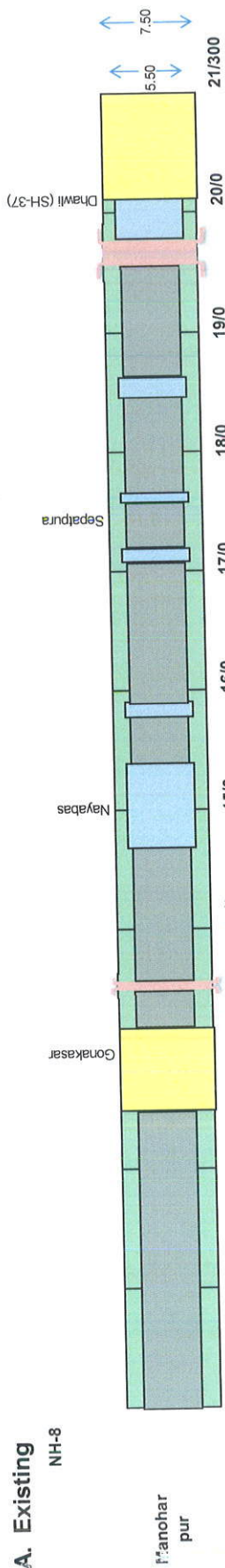

Executive Engineer
P.W.D. Distt. Dn. Shahpura,
Jaipur

NAME OF WORK : WIDENING & STRENGTHENING OF MANOHARPUR TO ITAWA BHOPJI VIA NAWALPURA CHARANWAS (MDR-187) INCLUDING CD WORK AT MANOHARPUR RIVER

LINEAR CHART

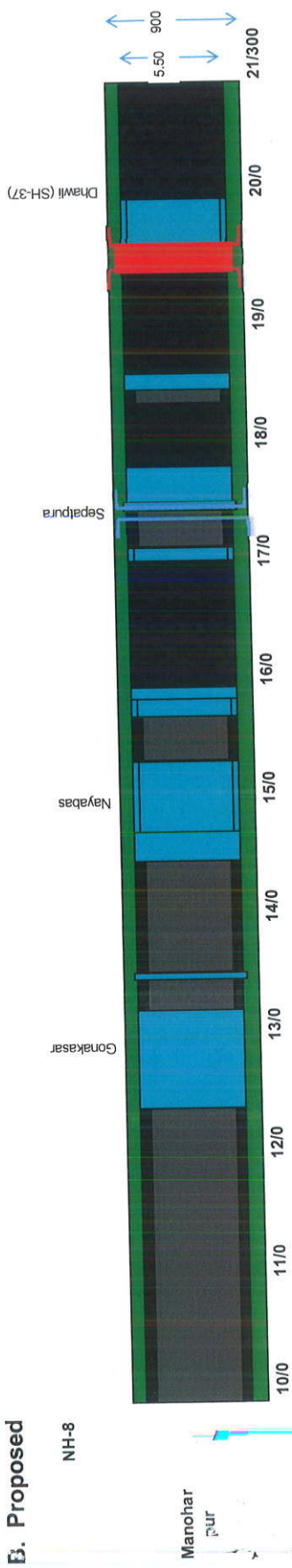
A. Existing

NH-8



B. Proposed

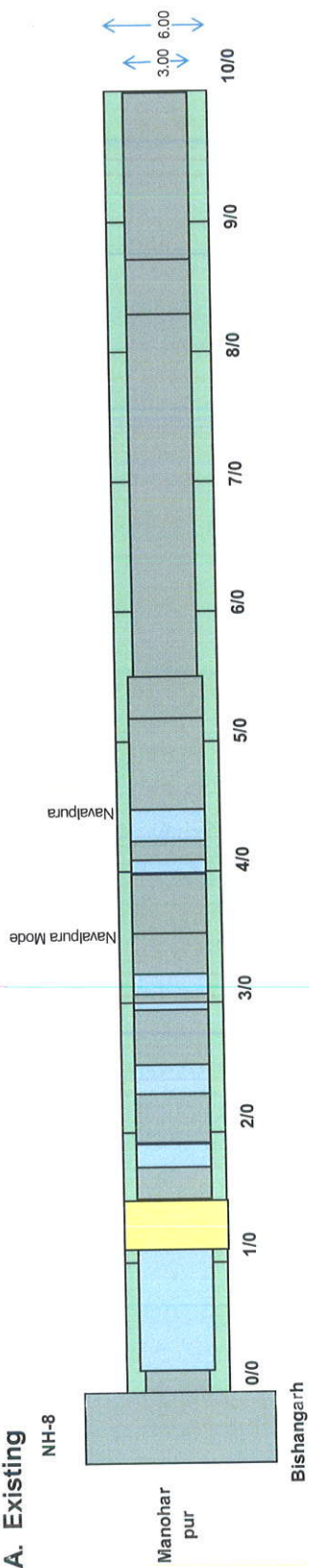
NH-8



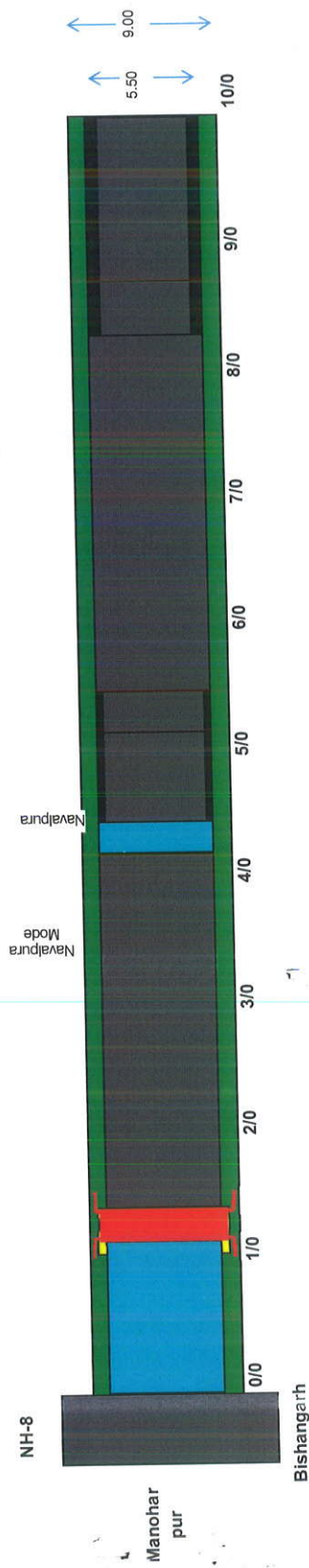
NAME OF WORK : WIDENING & STRENGTHENING OF MANOHARPUR TO ITAWA BHOPJI VIA NAWALPURA CHARANWAS (MDR-187) INCLUDING CD WORK AT MANOHARPUR RIVER

LINEAR CHART

A. Existing



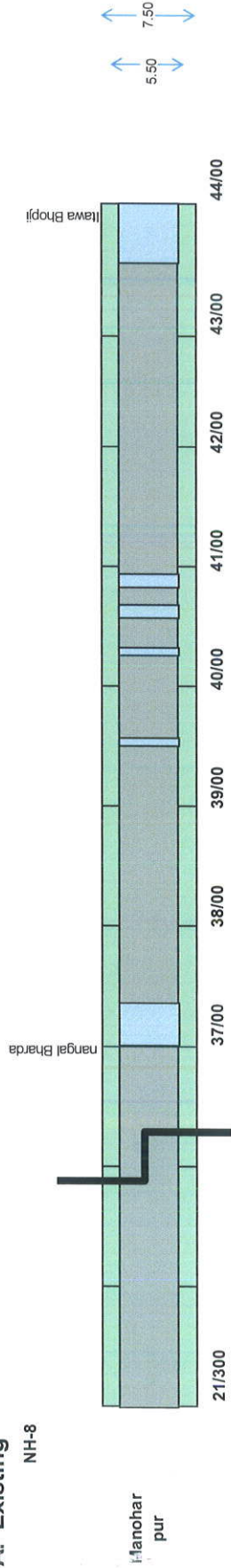
3. Proposed



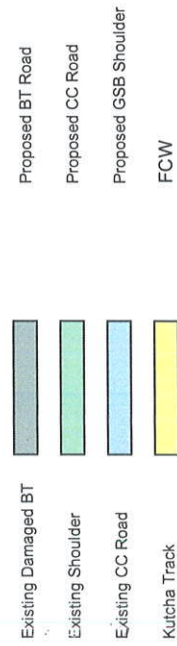
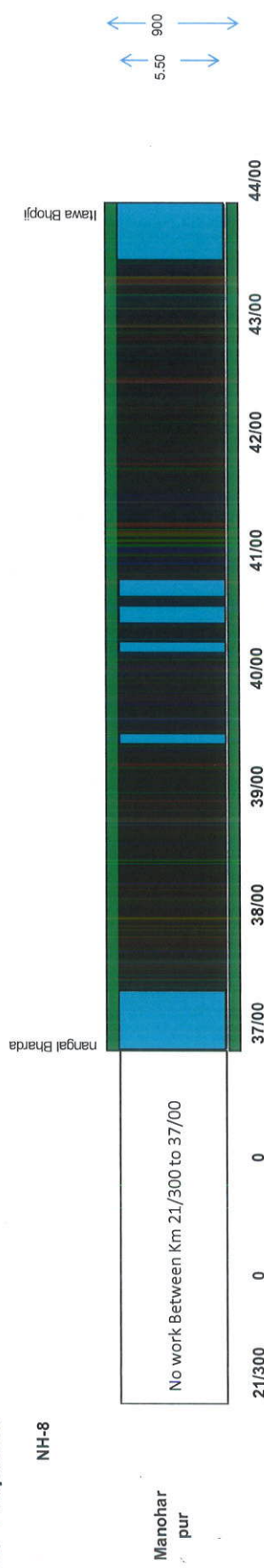
NAME OF WORK : WIDENING & STRENGTHENING OF MANOHARPUR TO ITAWA BHOPJI VIA NAWALPURA CHARANWAS (MDR-187) INCLUDING CD WORK AT MANOHARPUR RIVER

LINEAR CHART

A. Existing
NH-8



B. Proposed
NH-8

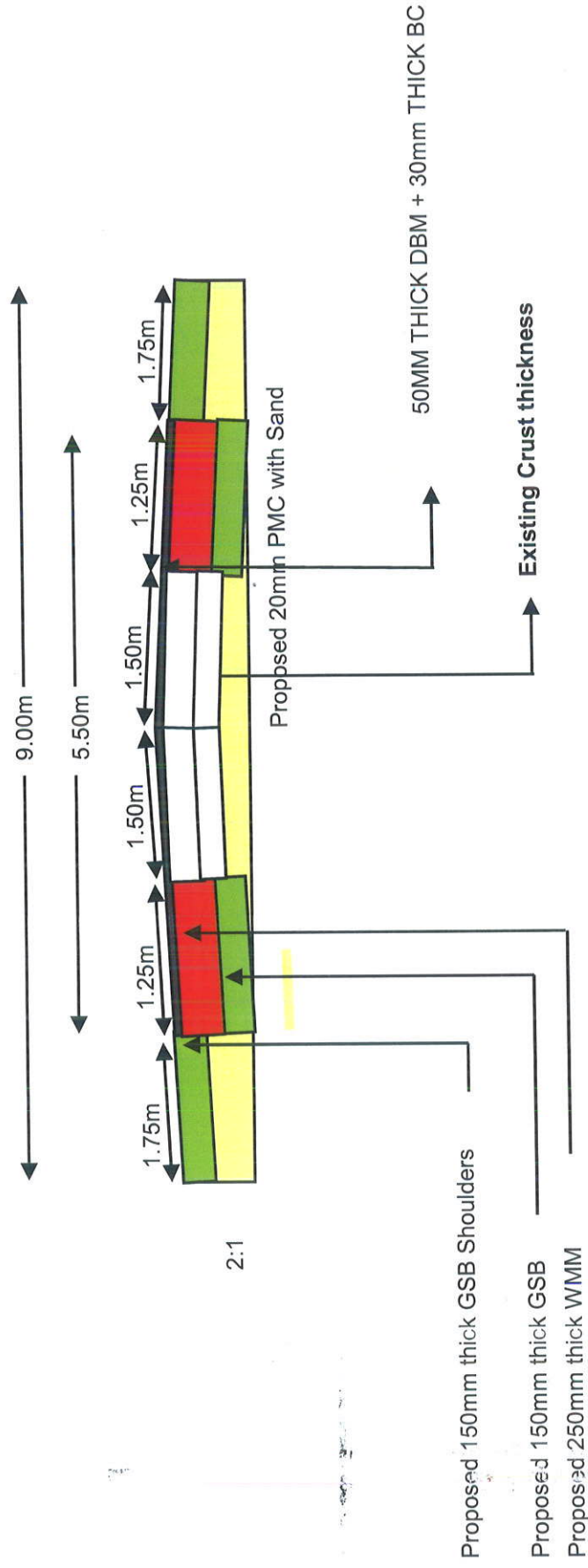


HPC

JUNIOR ENGINEER
P.W.D. SUB. DN. AMARSAR

ASSISTANT ENGINEER
P.W.D. SUB. DN. AMARSAR

**NAME OF WORK : WIDENING & STRENGTHENING OF MANOHARPUR TO ITAWA BHOPJI VIA
NAWALPURA CHARANWAS (MDR-187) INCLUDING CD WORK AT MANOHARPUR RIVER**



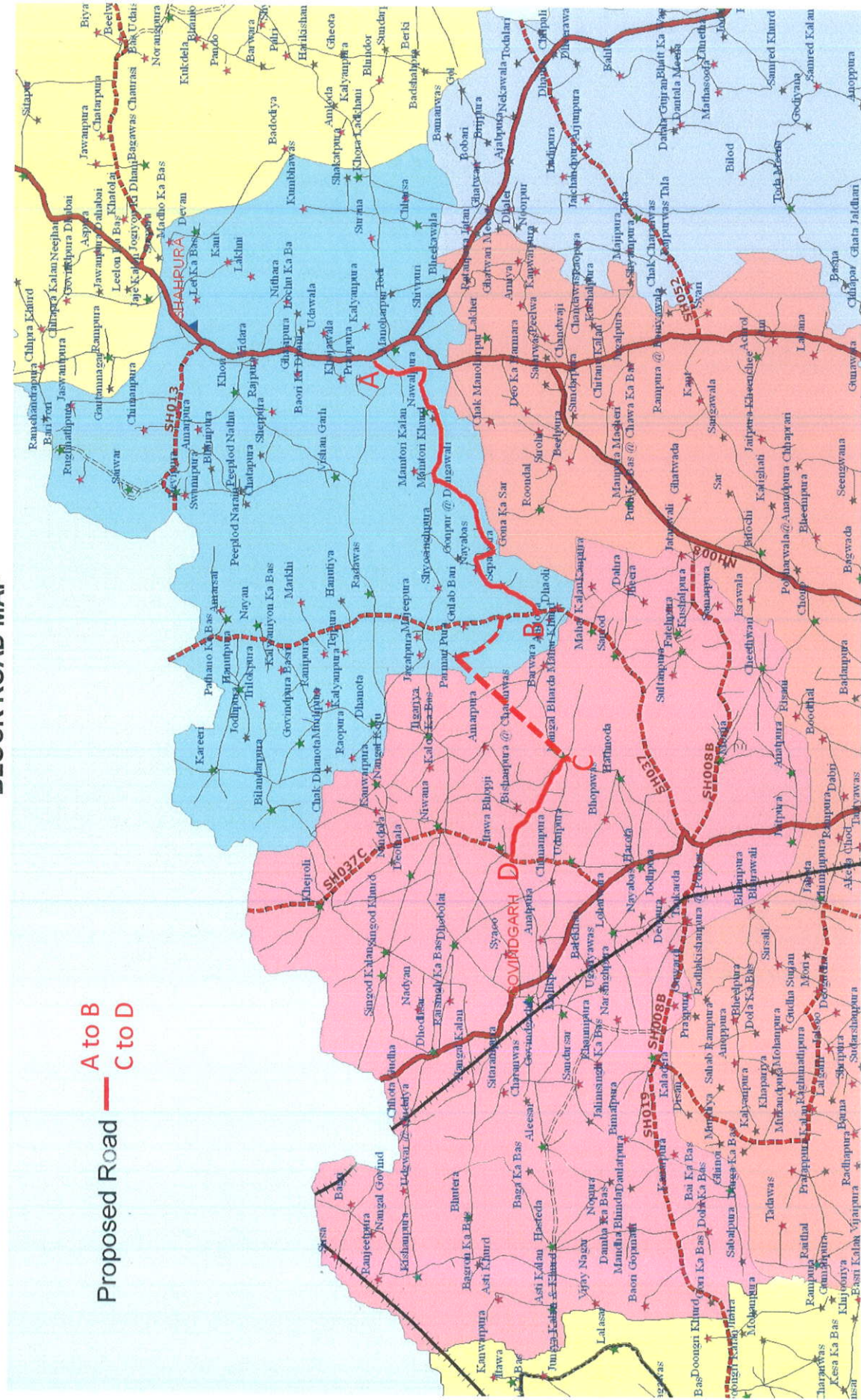
TYPICAL CROSS SECTION FOR WIDENING OF 3.00 TO 5.50 MTR. IN FOREST AREA

**JUNIOR ENGINEER
P.W.D. SUB. DN. AMARSAR**

**ASSISTANT ENGINEER
P.W.D. SUB. DN. AMARSAR**

NAME OF WORK : WIDENING & STRENGTHENING OF MANOHARPUR TO ITAWA BHOPJI VIA NAWALPURA CHARANWAS (MDR-187) INCLUDING CD WORK AT MANOHARPUR RIVER

BLOCK ROAD MAP



Executive Engineer
Distt Dn. Shahpura,
Jaipur