

HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT

No.: PW-SRDD-WA/Patyar Ghatru (forest case)/2024-25- 16/11/2024 Dated:- 07-01-2025
To

✓ The Divisional Forest Officer,
Forest Division, Shimla Rural (Khalini).

Subject:- Diversion of 1.4489 hac. of forest land in favour of HPPWD for the construction of road from Patyar Ghatru via Sitri Jayan Berti Nallah 0/00 to 3/600, within the jurisdiction of Shimla Forest Division, Distt. Shimla, H.P. (online No. FP/HP/ROAD/155756/2022).

Reference:- Nodal officer (FCA) office letter No. HPFD-F05/40/2024-FCA-HP Forest department dated 25.09.2024.

The point wise reply to shortcoming to case in reference as follows:-

1. The Administrative Approval and Expenditure Sanction has been uploaded on the parivesh portal.
2. The layout plan is already provided and uploaded on parivesh portal duly countersigned by the Divisional Forest Officer.
3. The needful correction has been made.
4. The dumping site detail report has been given by the concerned Range Officer and same has been uploaded on parivesh portal.
5. The muck management plan already uploaded on parivesh portal duly countersigned by the concerned Divisional Forest Officer.
6. The Certificate has been enclosed and the same has been uploaded on parivesh portal. (copy enclosed).
7. The reclamation plan already submitted duly counter signed by the concerned Divisional Forest officer and same has been uploaded on parivesh portal.
8. All the NOCs have been uploaded on parivesh portal.
9. It pertains to your office.
10. It pertains to your office.
11. It pertains to your office..
12. It pertains to your office.
13. It pertains to your office.
14. It pertains to your office.
15. It pertains to your office.
16. The geologist report has been uploaded on parivesh portal.

It is therefore, submitted for information and necessary action please.

Encl:- as above.

Executive Engineer,
Shimla Rural Division,
HP.PWD. Dhani.

Copy to the Assistant Engineer, HPPWD Sub Division, Dhani for kind information.

Executive Engineer,
Shimla Rural Division,
HP.PWD. Dhani.

Himachal Pradesh Public Works Department
Phone No: 0177-2653455 Telefax : 0177-2805097 e-mail:hp-shi3@nic.in

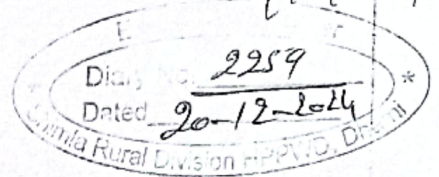
No: SE-IV-R-II (Dhami)-Misc .Est. /2024-
To

13466-67

Dated:-

19/12/24

The Executive Engineer,
Shimla Rural Division Dhami,
HP PWD., Dhami.



Subject:-

C/O Link road Patyar Ghatru Via Sitiri Jayan Berti Nallah Km 0/00 to 3/600 (SH: Formation Cutting,C/O R/wall and B/wall, Cross Drainage work, Providing and laying Soling Grade I, in Km 1/015 to 3/600).

Reference:-

Your office letter No. PW-SRDD/DB/Detailed Preliminary estimate/Dhami/2024-25-13997-98 dated 28-11-2024.

The subject cited preliminary estimate ^{after Jamabandi} as received vide your letter under reference is sent herewith duly approved for Rs. 80.18 Lacs (Rupees Eighty lacs and eighteen thousand) only for taking further necessary action subject to the condition that approval only for processing forest case clearance. Final A/A & E/S needs to be obtained with detailed estimate after obtaining the forest clearance and mutation of private land to HPPWD.

Encl: As above.

Superintending Engineer,
4th Circle, HPPWD, Shimla

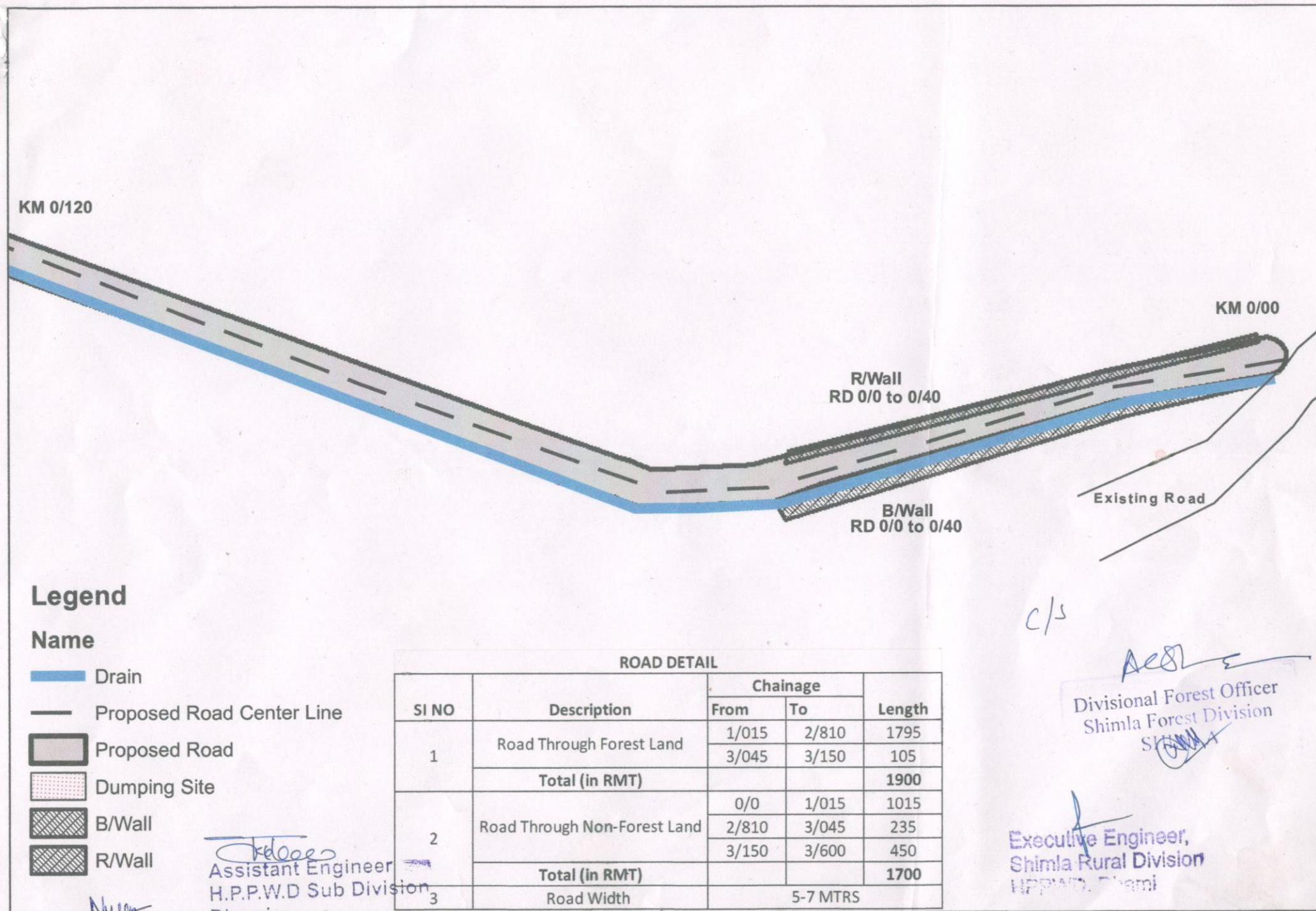
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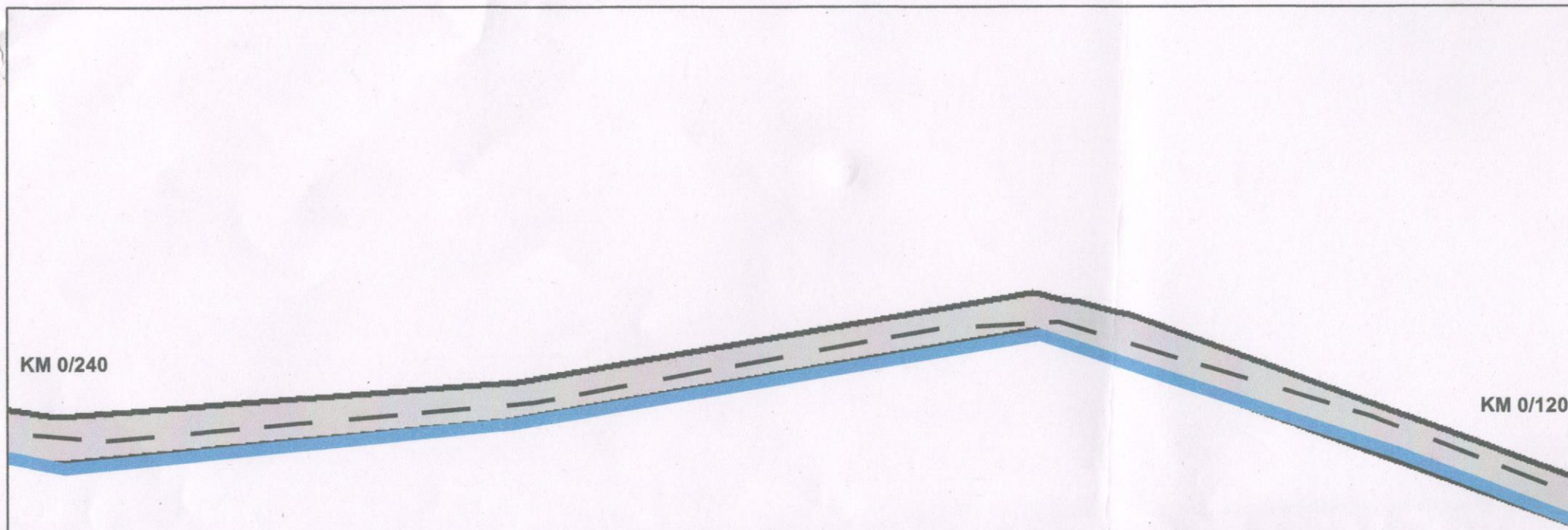
Superintending Engineer,
4th Circle, HPPWD, Shimla



No. Pw-SRDD-DB/Patyar Ghatru Sitiri Jayan Road/Dhami/2024-25-15688
Copy forwarded to AR Dhami for information & necessary action please.







Executive Engineer,
Shimla Rural Division,
HPPWD, Dhami





Legend

Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall

ROAD DETAIL

SI NO	Description	Chainage		Length
		From	To	
1	Road Through Forest Land	1/015	2/810	1795
		3/045	3/150	105
	Total (in RMT)			1900
2	Road Through Non-Forest Land	0/0	1/015	1015
		2/810	3/045	235
		3/150	3/600	450
	Total (in RMT)			1700
3	Road Width	5-7 MTRS		

[Signature]
Assistant Engineer
H.P.P.W.D Sub Division
Dharni

[Signature]
Divisional Forest Officer
Shimla Forest Division
SHIMLA

[Signature]
Executive Engineer,
Shimla Rural Division
HPPWD, Dharni



Legend

Name

- Drain
- Proposed Road Center Line
- Proposed Road
- Dumping Site
- B/Wall
- R/Wall

ROAD DETAIL

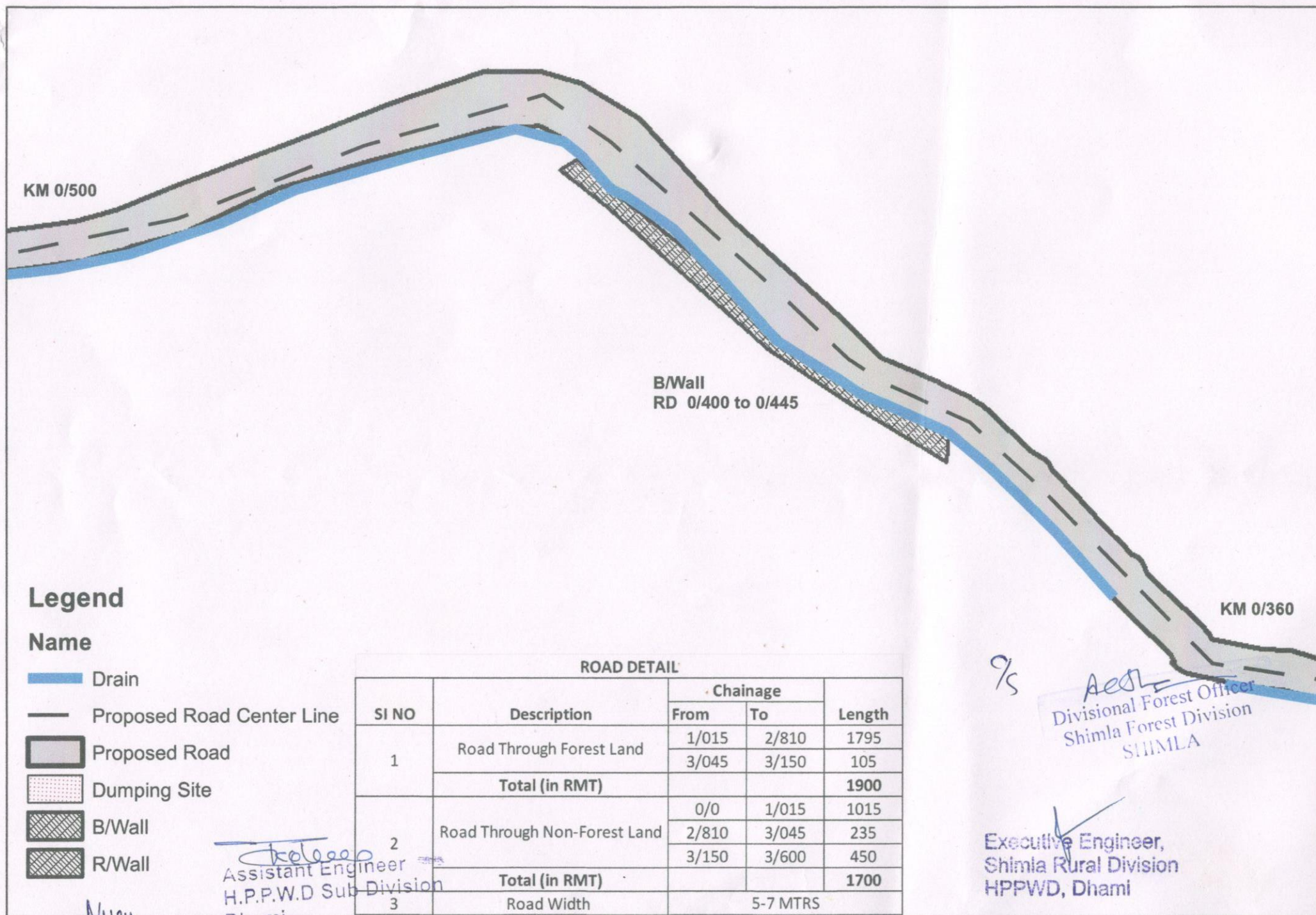
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		2/810	3/045	235
	Total (in RMT)			1700
3	Road Width	5-7 MTRS		

9/5
Aes
Divisional Forest Officer
Shimla Forest Division
SHIMLA

Executive Engineer,
Shimla Rural Division
HPPWD, Dhani

[Signature]
Assistant Engineer
H.P.P.W.D Sub Division
Dhani

[Signature]









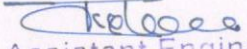
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3	Road Width	5-7 MTRS		

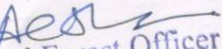
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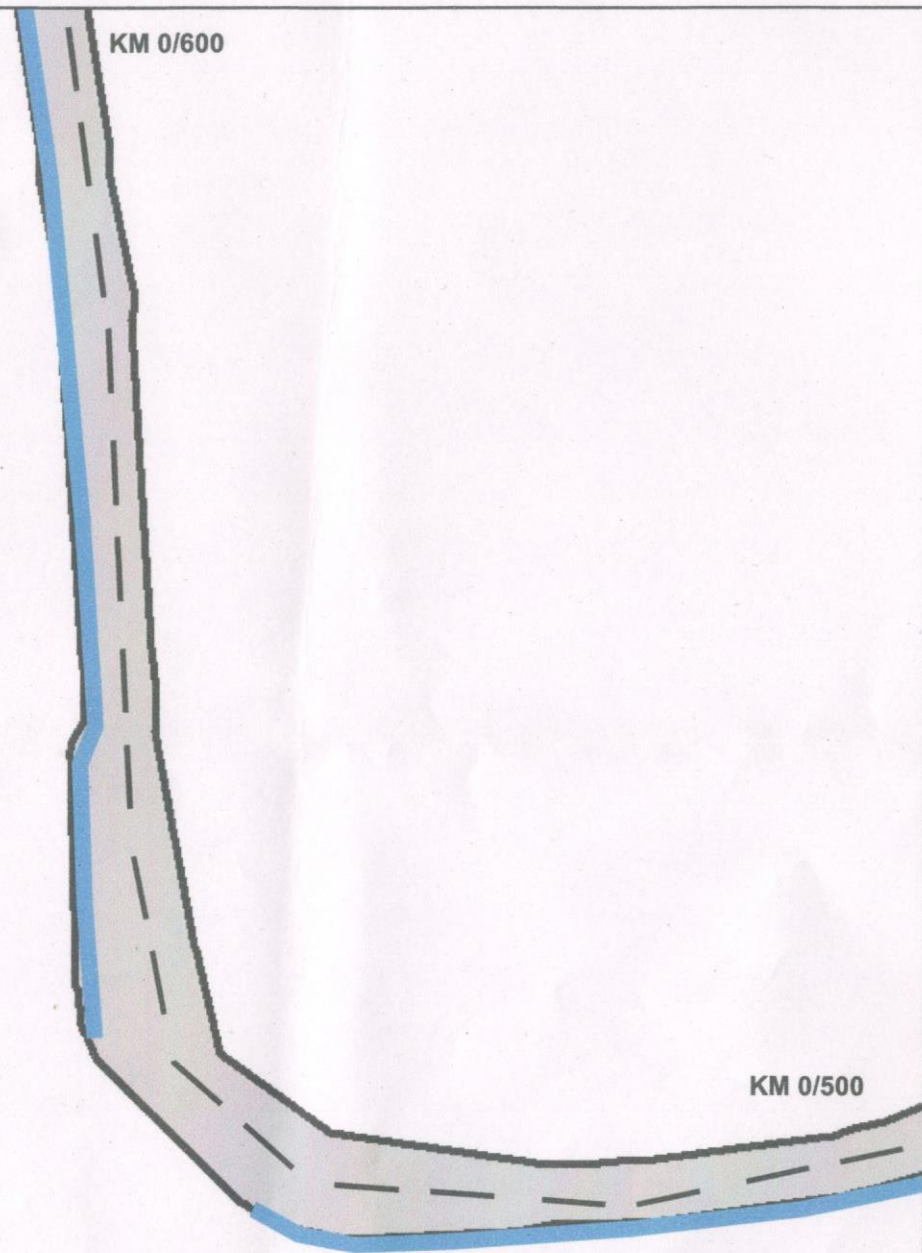
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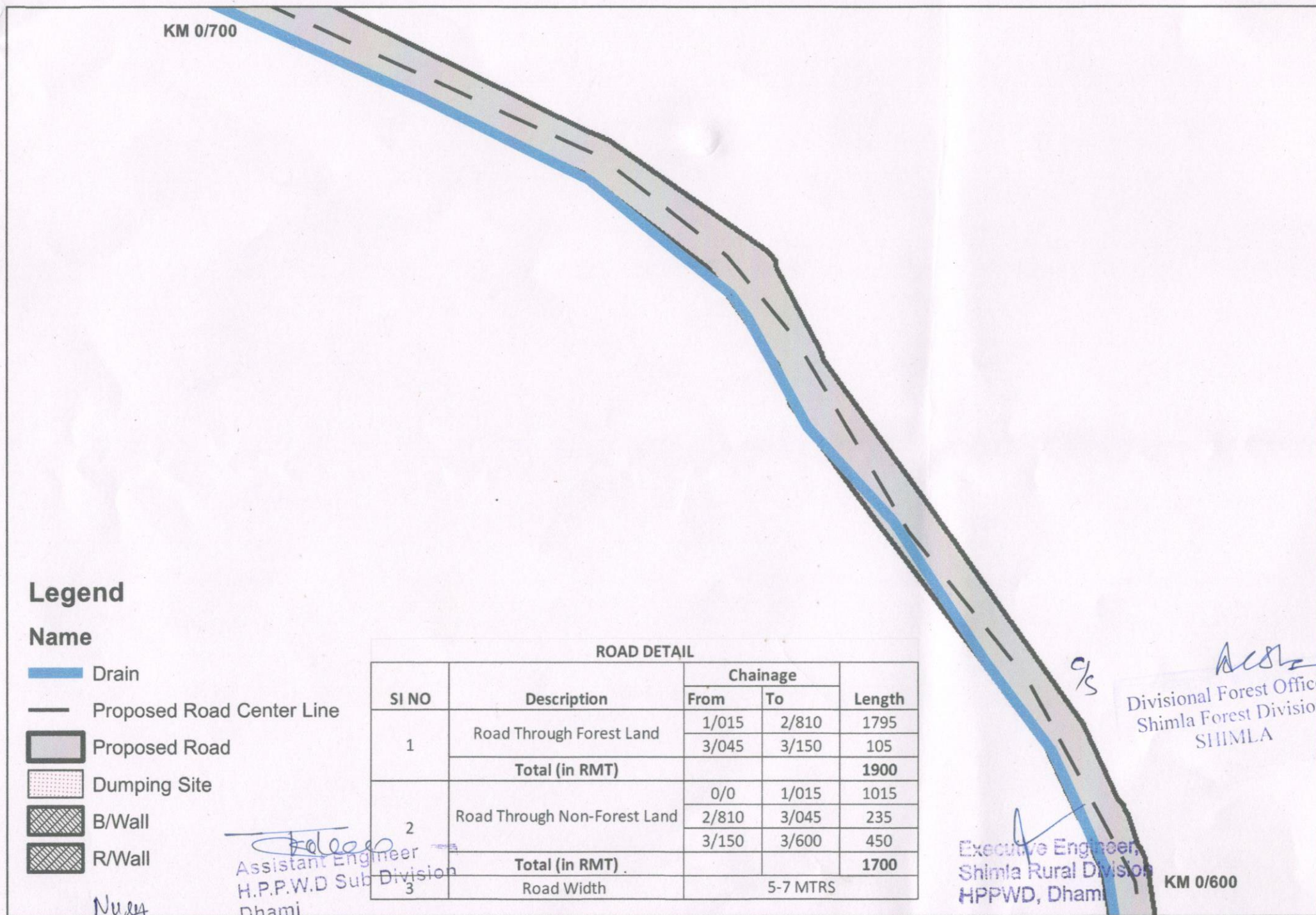
-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall


Assistant Engineer
H.P.P.W.D Sub Division
Dhami


Executive Engineer,
Shimla Rural Division
HPPWD, Dhami


Divisional Forest Officer
Shimla Forest Division
SHIMLA











ROAD DETAIL

SI NO	Description	Chainage		Length
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Legend

Name

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[Signature]
 Assistant Engineer
 H.P.P.W.D Sub Division
 Dhami

[Signature]
 Executive Engineer,
 Shimla Rural Division
 HPPWD, Dhami

[Signature]
 Divisional Forest Officer
 Shimla Forest Division
 SHIMLA

KM 0/850







KM 0/700

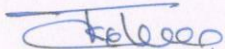
ROAD DETAIL


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		3/150	3/600	450
	Total (in RMT)			1700
3	Road Width	5-7 MTRS		

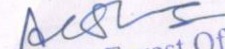
Legend

Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall

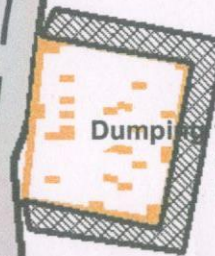

 Assistant Engineer
 H.P.P.W.D Sub Division
 Dhami


 Executive Engineer,
 Shimla Rural Division
 HPPWD, Dhami


 Divisional Forest Officer
 Shimla Forest Division
 SHIMLA

KM 0/930

KM 0/850









Dumping 1
 R/Wall
 RD 0/890 to 0/910

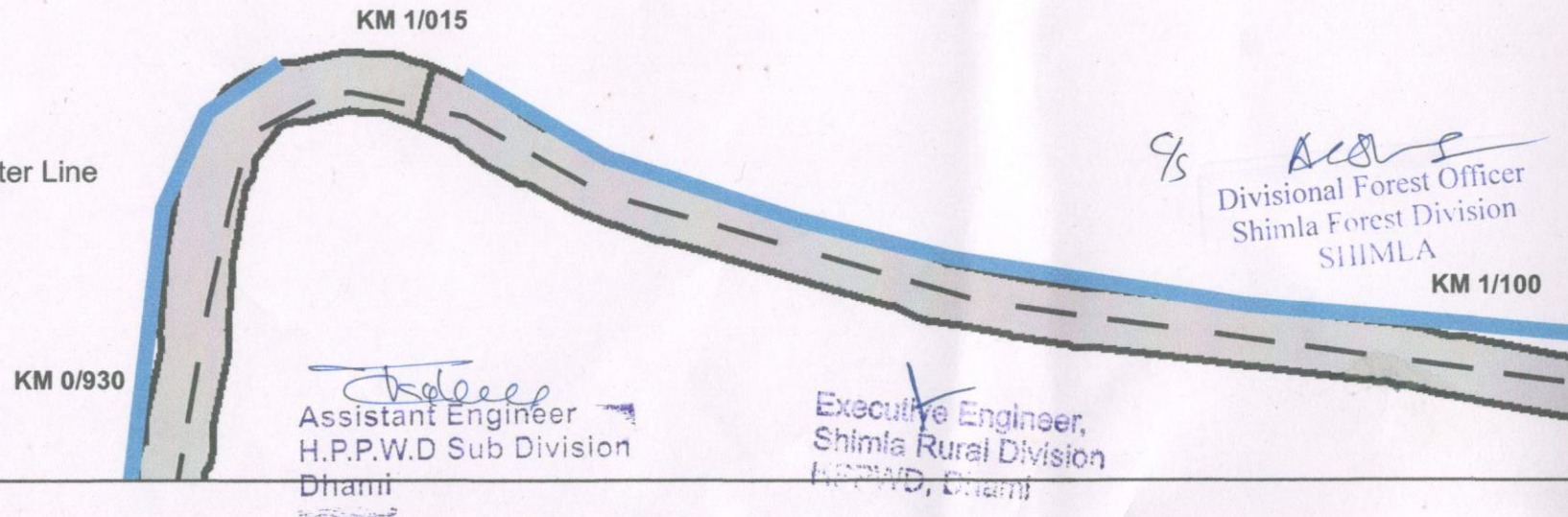
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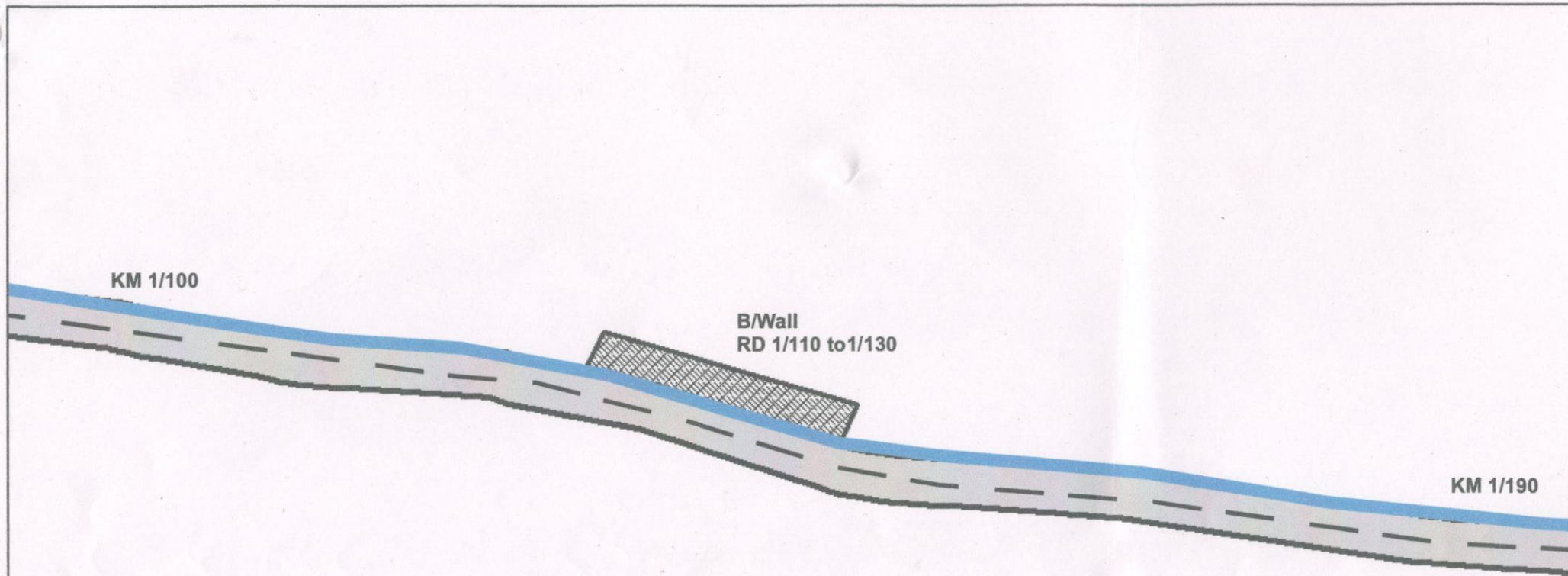
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Legend

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-  R/Wall





Legend

Name

- Drain
- Proposed Road Center Line
- Proposed Road
- Dumping Site
- B/Wall
- R/Wall

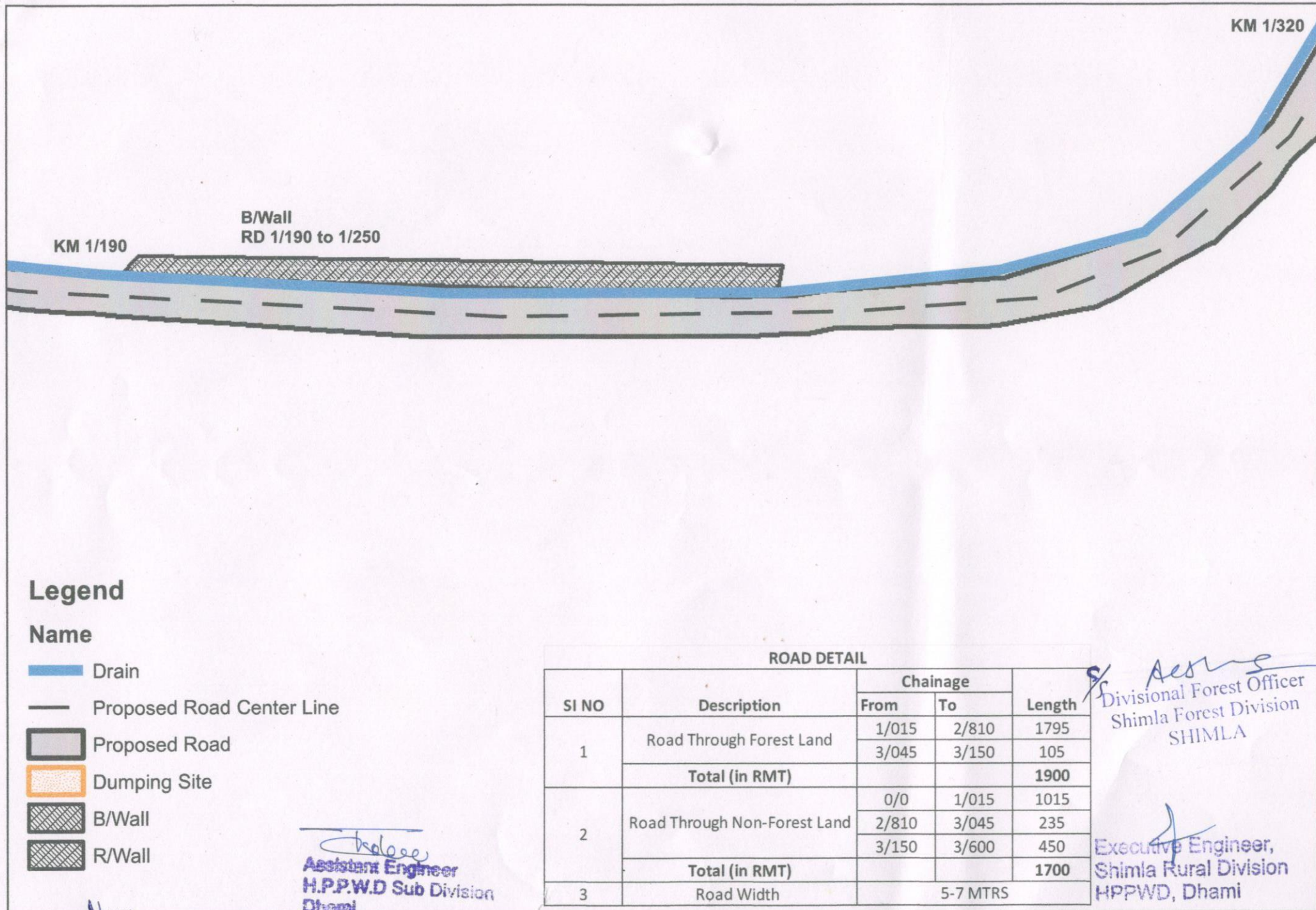
Chalee
Assistant Engineer
H.P.P.W.D Sub Division
Dhami

ROAD DETAIL

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3	Road Width	5-7 MTRS		

g/s *Aes*
Divisional Forest Officer
Shimla Forest Division
SHIMLA







4
Executive Engineer,
Shimla Rural Division
HPPWD, Dhami



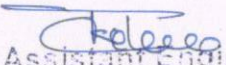
KM 1/430


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

Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall

KM 1/320


Assistant Engineer
H.P.P.W.D. Sub Division
Dhami


Executive Engineer,
Shimla Rural Division
Patyar Ghatru

 
Divisional Forest Officer
Shimla Forest Division
SHIMLA

ROAD DETAIL







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	Total (in RMT)			1700
3	Road Width	5-7 MTRS		

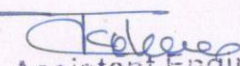
ROAD DETAIL


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3	Road Width	5-7 MTRS		

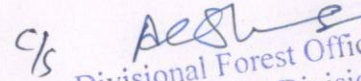
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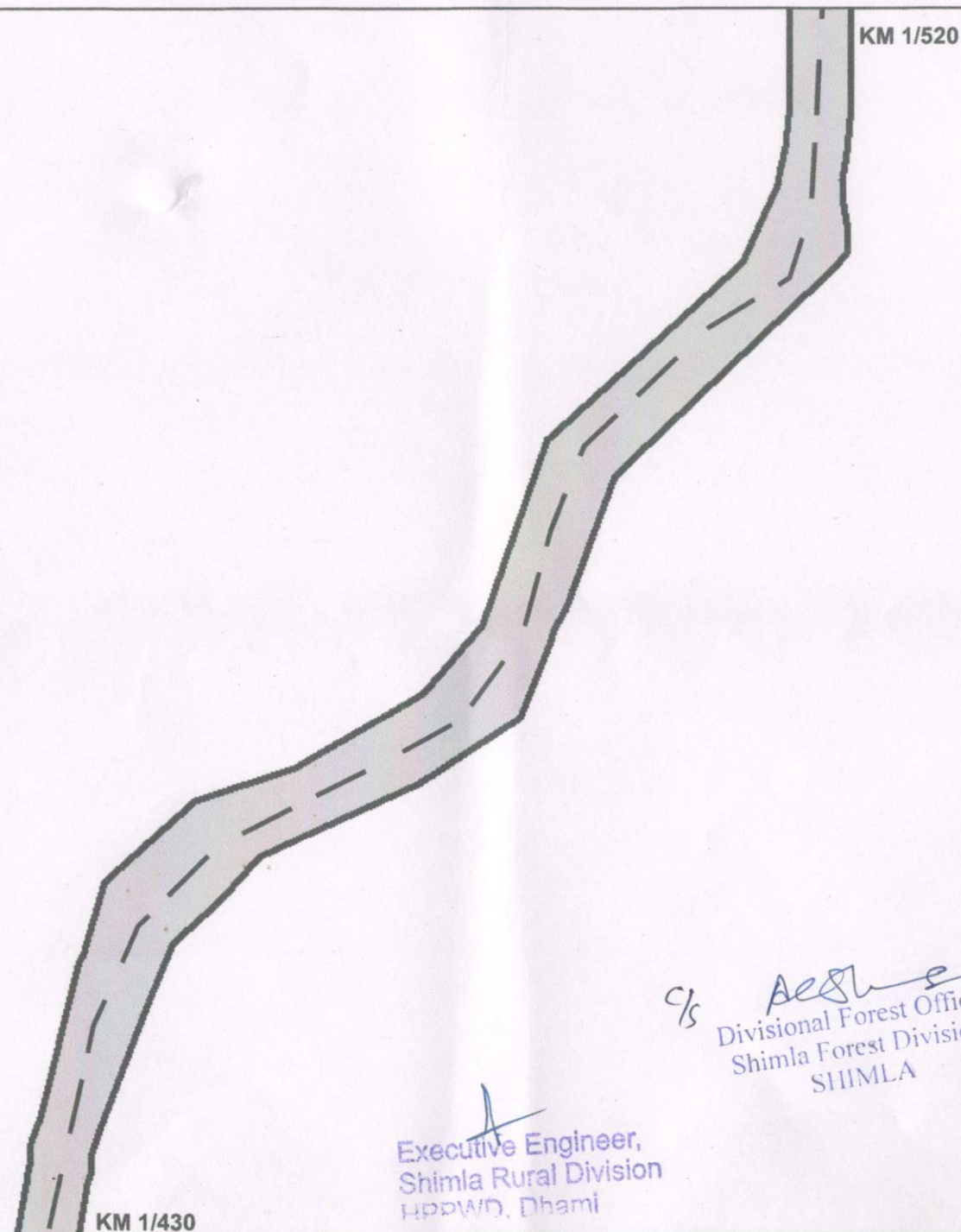
Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall


 Assistant Engineer
 H.P.P.W.D. Sub Division
 Dhami


 Executive Engineer,
 Shimla Rural Division
 H.P.P.W.D. Dhami


 Divisional Forest Officer
 Shimla Forest Division
 SHIMLA



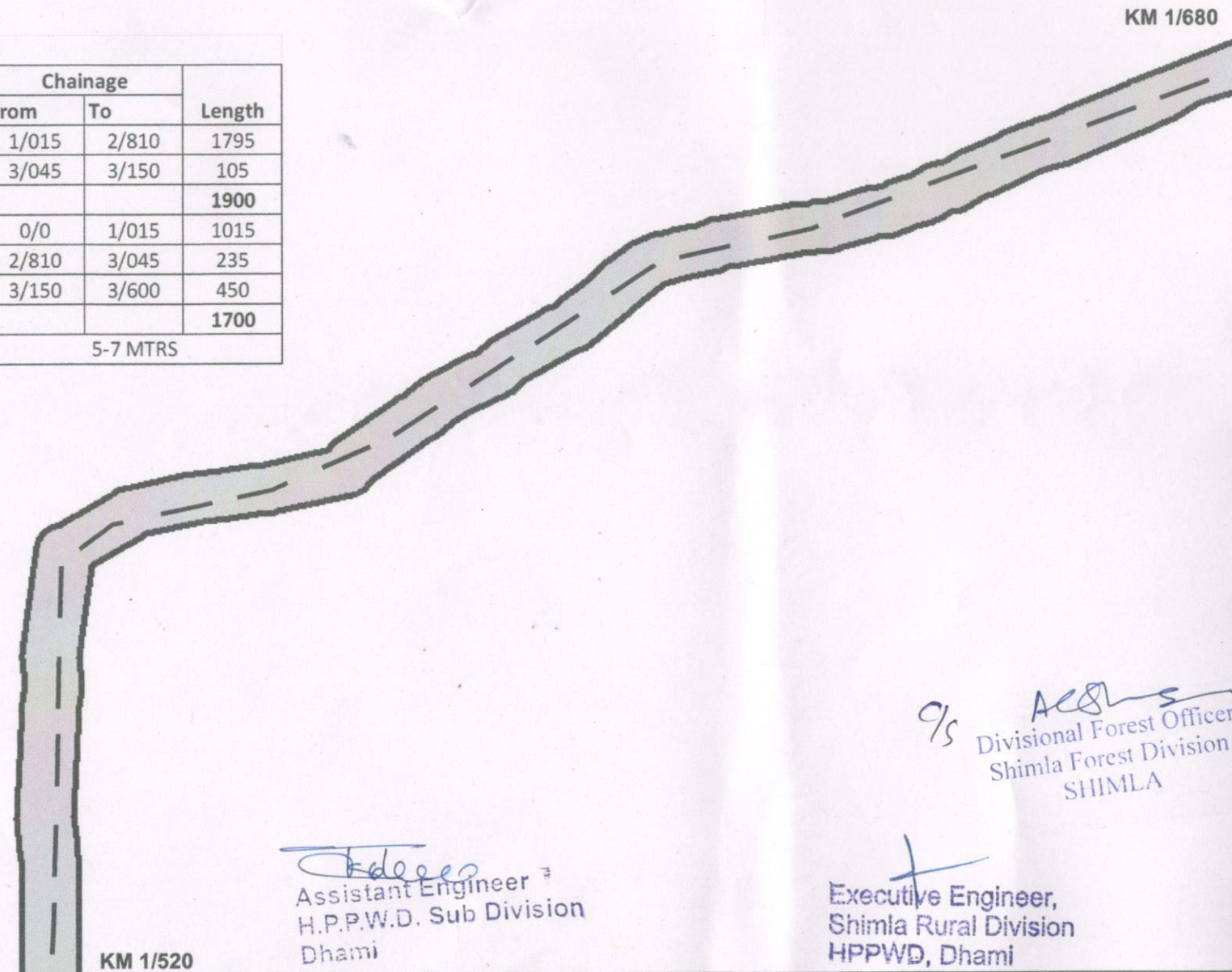
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Legend

Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall



Assistant Engineer
H.P.P.W.D. Sub Division
Dharni

Executive Engineer,
Shimla Rural Division
HPPWD, Dharni







Divisional Forest Officer
Shimla Forest Division
SHIMLA

ROAD DETAIL

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3	Road Width	5-7 MTRS		

Legend

Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall

KM 1/680

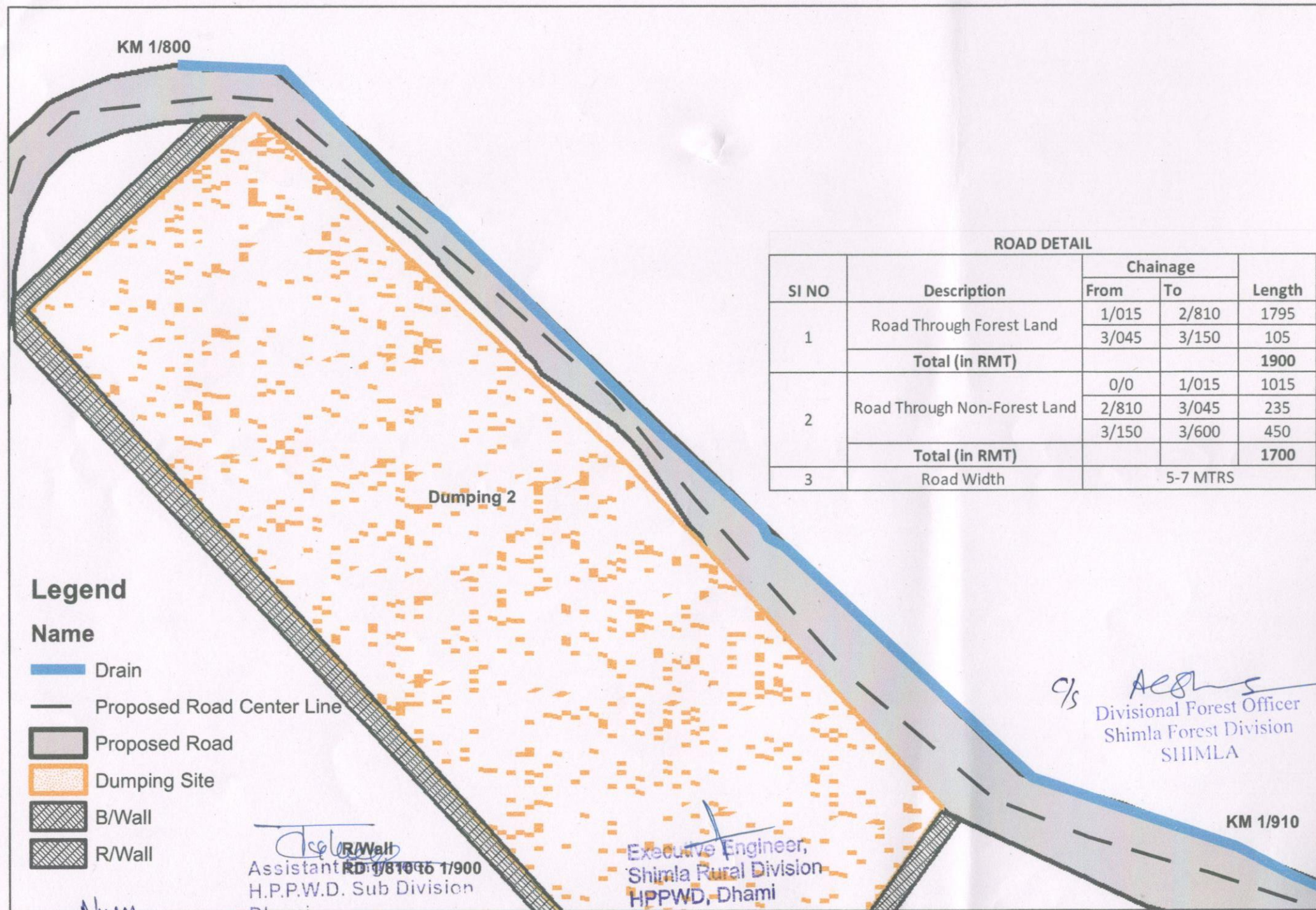
Shaleen
Assistant Engineer
H.P.P.W.D. Sub Division
Dhami

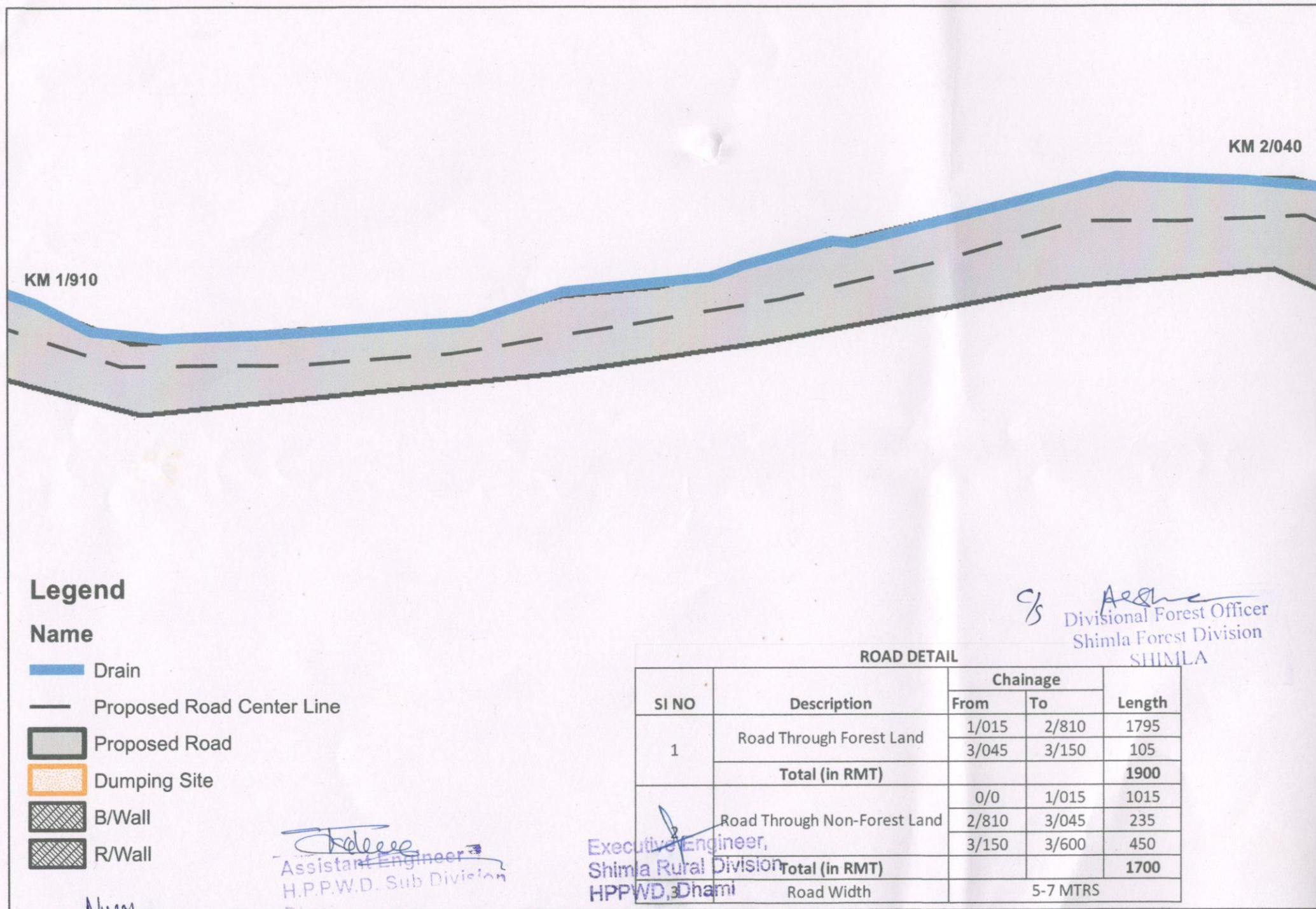
Executive Engineer
Shimla Forest Division
HPPWD, Dhami

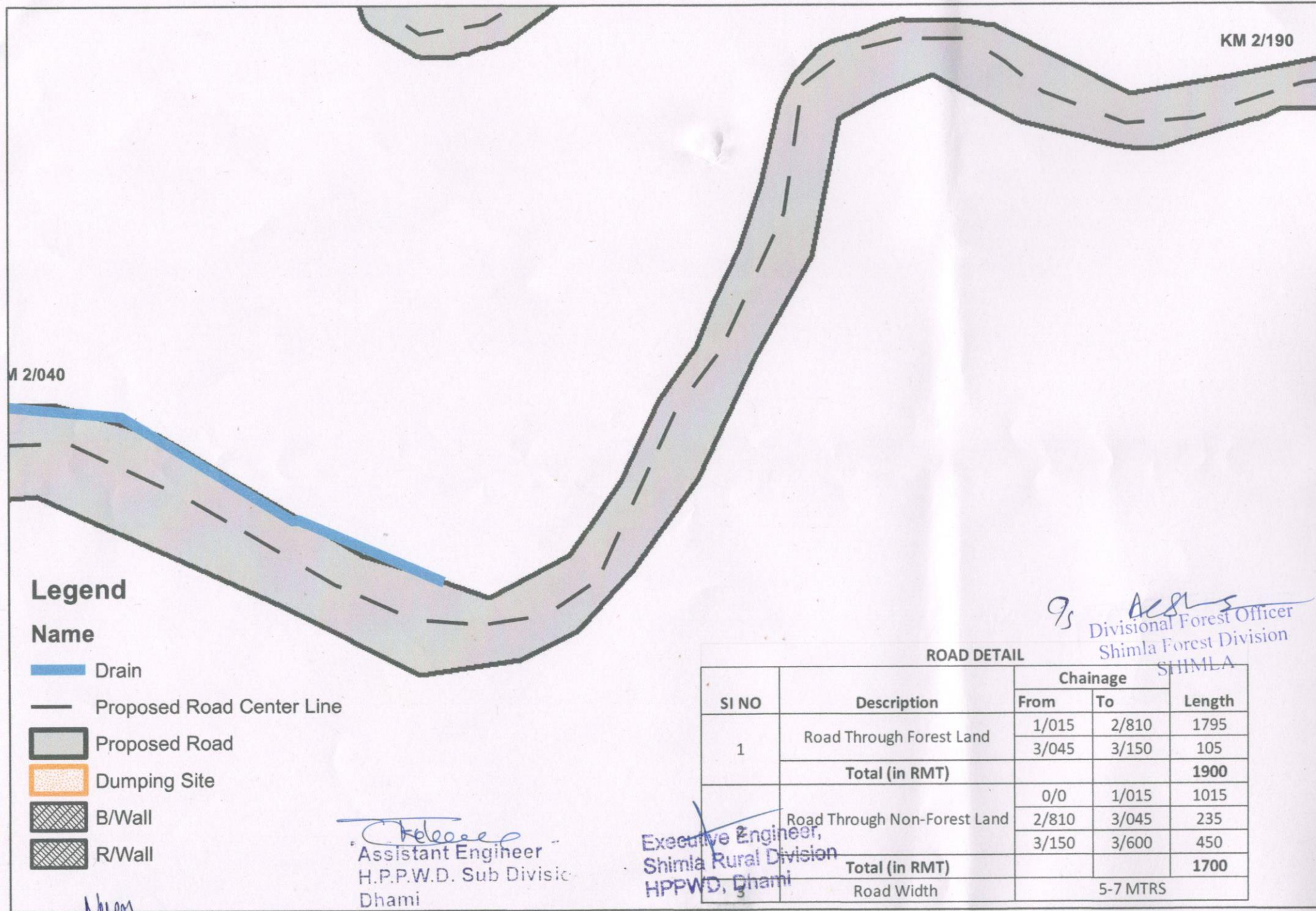
R/Wall
RD 1/700 to 1/730

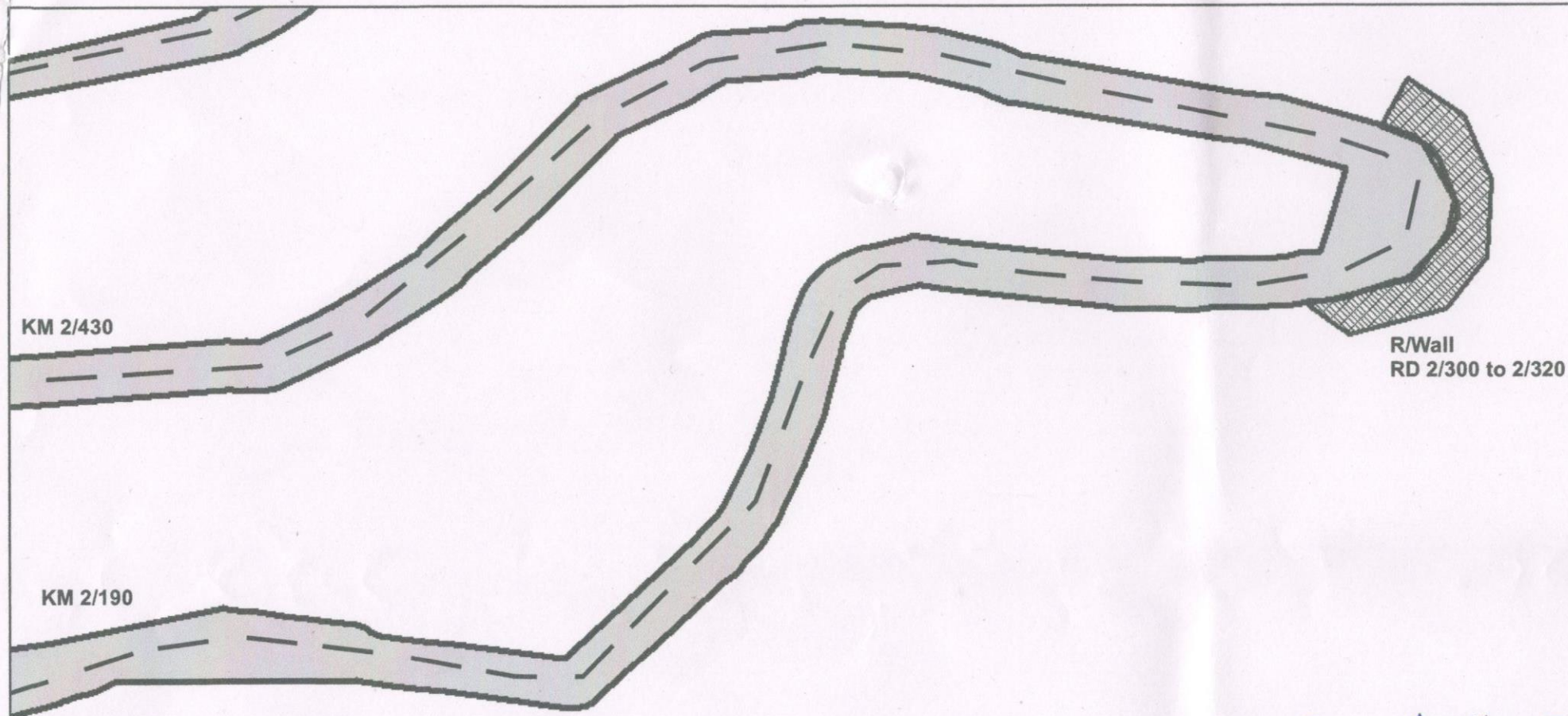
9/5
Asst
Divisional Forest Officer
Shimla Forest Division
SHIMLA

KM 1/800















Legend

Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall

[Signature]
Assistant Engineer
H.P.P.W.D. Sub Division
Dhami

[Signature]
Divisional Forest Officer
Shimla Forest Division
SHIMLA

ROAD DETAIL

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	Total (in RMT)			1700
	Road Width	5-7 MTRS		







[Signature]
Executive Engineer,
Shimla Rural Division
HPPWD, Dhami

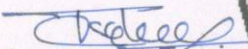
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
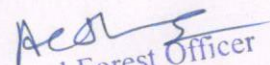
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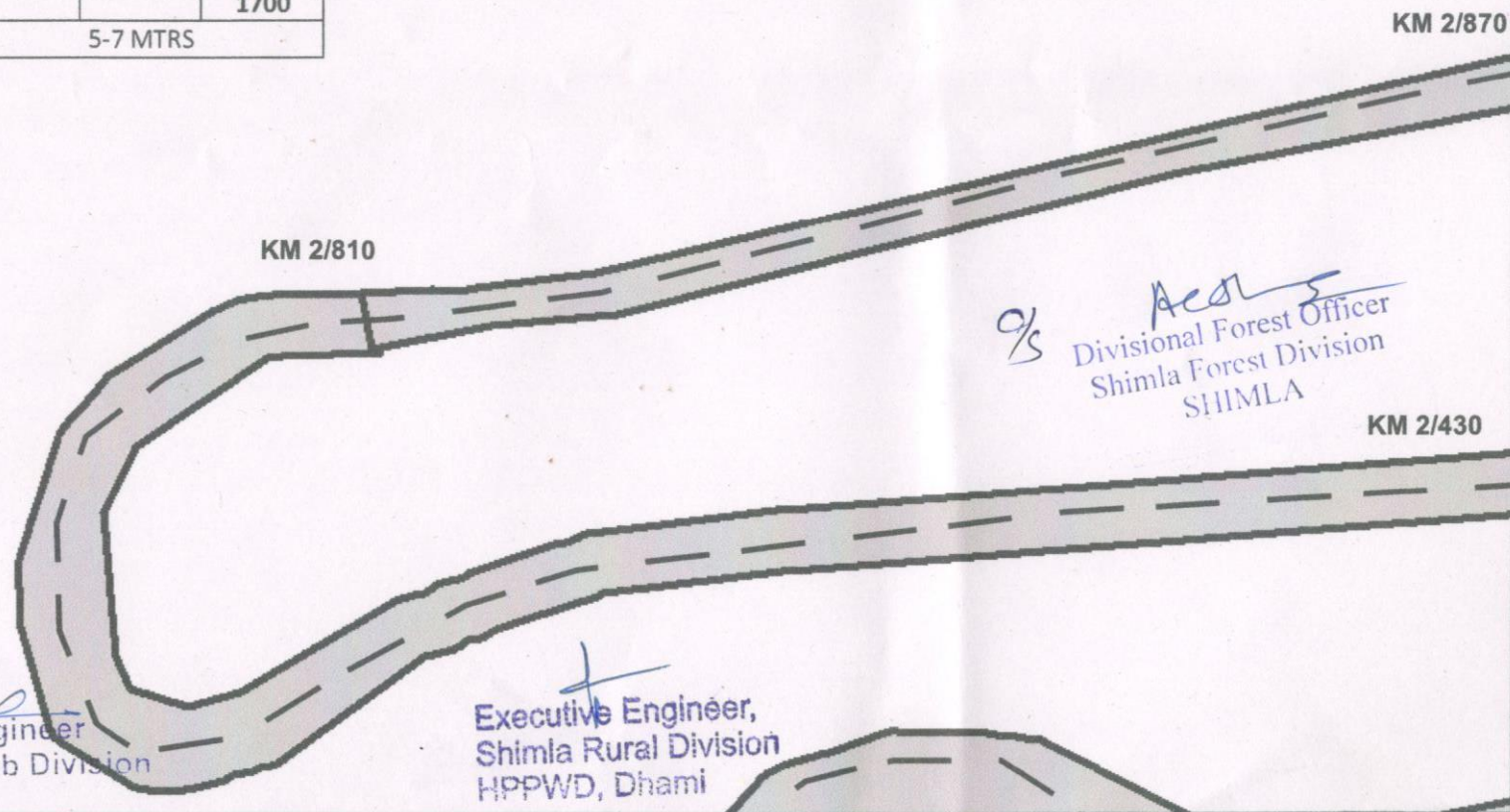
Name

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-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall


Assistant Engineer
H.P.P.W.D. Sub Division
Dhami


Executive Engineer,
Shimla Rural Division
HPPWD, Dhami

 
Divisional Forest Officer
Shimla Forest Division
SHIMLA


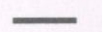
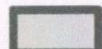





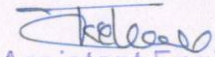
ROAD DETAIL


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Legend


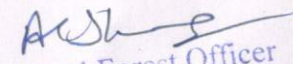
Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall


Assistant Engineer KM 2/870
H.P.P.W.D. Sub Division
Dhami

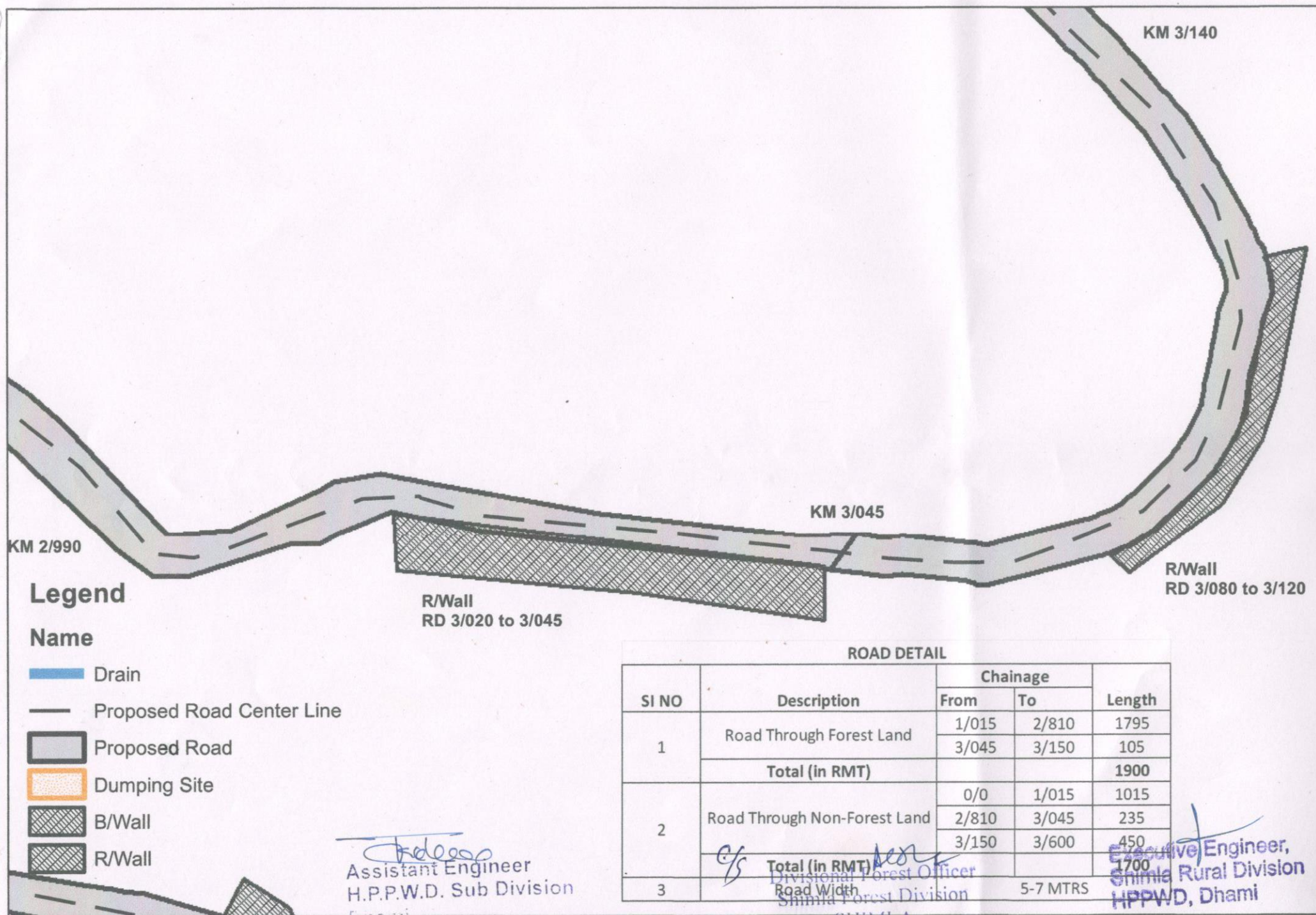

Executive Engineer,
Shimla Rural Division
HPPWD, Dhami

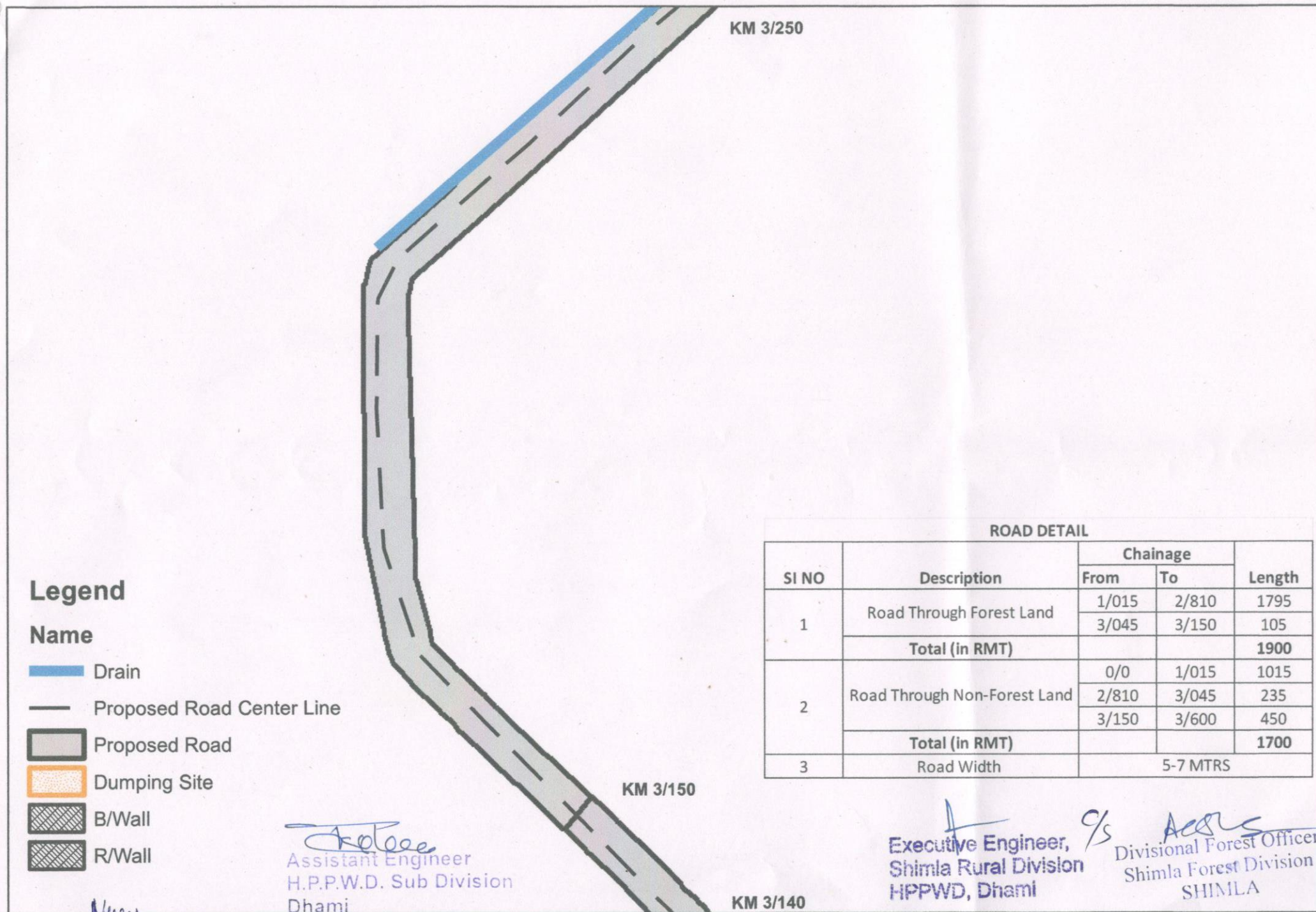
R/Wall
RD 2/900 to 2/930

 
Divisional Forest Officer
Shimla Forest Division
SHIMLA

KM 2/990

Dumping-3











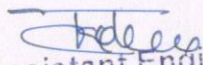
ROAD DETAIL				
SI NO	Description	Chainage		Length
		From	To	
1	Road Through Forest Land	1/015	2/810	1795
		3/045	3/150	105
	Total (in RMT)			1900
2	Road Through Non-Forest Land	0/0	1/015	1015
		2/810	3/045	235
		3/150	3/600	450
	Total (in RMT)			1700
3	Road Width	5-7 MTRS		

ROAD DETAIL				
SI NO	Description	Chainage		Length
		From	To	
1	Road Through Forest Land	1/015	2/810	1795
		3/045	3/150	105
	Total (in RMT)			1900
2	Road Through Non-Forest Land	0/0	1/015	1015
		2/810	3/045	235
		3/150	3/600	450
	Total (in RMT)			1700
3	Road Width	5-7 MTRS		

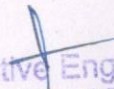
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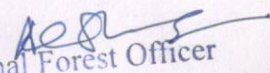
Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall


Assistant Engineer
H.P.P.W.D. Sub-Division
Dhami

KM 3/250


Executive Engineer,
Shimla Rural Division
HPPWD, Dhami


Divisional Forest Officer
Shimla Forest Division
SHIMLA

KM 3/360



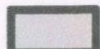





ROAD DETAIL

SI NO	Description	Chainage		Length
		From	To	
1	Road Through Forest Land	1/015	2/810	1795
		3/045	3/150	105
	Total (in RMT)			1900
2	Road Through Non-Forest Land	0/0	1/015	1015
		2/810	3/045	235
		3/150	3/600	450
	Total (in RMT)			1700
3	Road Width	5-7 MTRS		

Legend

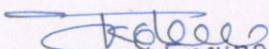
Name

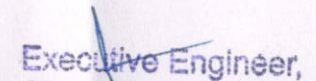
-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall

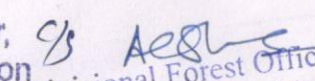
KM 3/360

KM 3/460

R/Wall
RD 3/365 to 3/400


Assistant Engineer
H.P.P.W.D. Sub Division
Dhami


Executive Engineer,
Shimla Rural Division
HPPWD, Dhami


Divisional Forest Officer
Shimla Forest Division
SHIMLA

KM 3/530

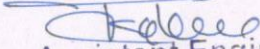
ROAD DETAIL


SI NO	Description	Chainage		Length
		From	To	
1	Road Through Forest Land	1/015	2/810	1795
		3/045	3/150	105
	Total (in RMT)			1900
2	Road Through Non-Forest Land	0/0	1/015	1015
		2/810	3/045	235
		3/150	3/600	450
	Total (in RMT)			1700
3	Road Width	5-7 MTRS		

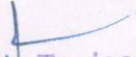
Legend

Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall


 Assistant Engineer
 H.P.P.W.D. Sub Division
 Dhami


 Divisional Forest Officer
 Shimla Forest Division


 Executive Engineer,
 Shimla Rural Division
 HPPWD, Dhami

KM 3/460


SHIMLA

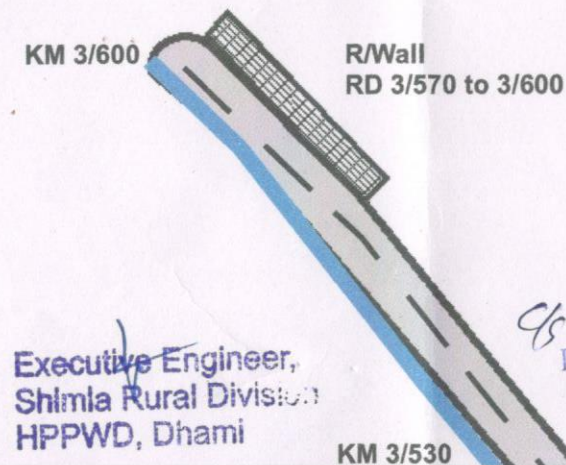
ROAD DETAIL

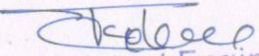
SI NO	Description	Chainage		Length
		From	To	
1	Road Through Forest Land	1/015	2/810	1795
		3/045	3/150	105
	Total (in RMT)			1900
2	Road Through Non-Forest Land	0/0	1/015	1015
		2/810	3/045	235
		3/150	3/600	450
	Total (in RMT)			1700
3	Road Width	5-7 MTRS		


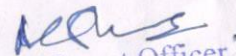
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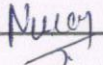
Name

-  Drain
-  Proposed Road Center Line
-  Proposed Road
-  Dumping Site
-  B/Wall
-  R/Wall




Assistant Engineer
H.P.P.W.D. Sub Division
Dharni

 
Divisional Forest Officer
Shimla Forest Division
SHIMLA



MUCK MANAGEMENT PLAN

1	Total Qty. of Muck being Produce	54000.00
2	Deduction for useful stone as required under the clause of agreement to be executed by the contractor and executive Engineer of Project	18000.00
3	Net Balance quantity of Debris/Muck(1-2) A	36000.00
4	Quantity available on site with swell factor 2 40% 1.40xA	50400.00
5	Material/Muck to be used in project:	
	1. Deduction for material/required for the construction of dumping place in dry masonry wall/ edge walls @ 5% of(B)	2520.00
	2. Less for material/muck required for the levelling of the proposed road for the construction @ 15% of (B)	7560.00
	3. Less for material/muckrequired for the Construction of the proposed road on the analogy of half cutting & half filling @ 40% of (B)	20160.00
	Total:- 5(1)+5(2)+5(3)	30240.00
6	Net material/muck to be dumping in dumping site (B-C)	20160.00
7	Proposed Dunping sites	
	Material/Muck left at site which required carriages for the proper dumping at the recognized site as per instruction of Forest and Environment Ministry reinforced by various judgment of the apex court Govt. of india.	
	Dumping Capacity Plan	
	Sr. No.	Dumpling site no.
	1	105/2
	2	585/1
	3	1217/974/2
	Total:-	00-73-36

Assistant Engineer
H.P.P.W.D. Sub Division
Dhami

Executive Engineer,
Shimla Rural Division
HPPWD, Dhami

Divisional Forest Officer
Shimla Forest Division
SHIMI

NAME OF WORK - MUCK DUMPING PLAN (SH- C/O Link road From
Pat to ghata via Sitarai Jatan Badi Nalla km. 0/00 to 3/00
(Kh. No 105/2, 58.5/11217/974/2)

RD

RD

GR

Divisional Forest Officer
Shimla Forest Division
SHIMLA

$L = 50m$
 $W = 30m$
 $H = 7m$
No. of dump = 3
Total = $3 \times 10500 = 31500 \text{ Cum}$

Wire Mesh
(10x10)
cm

Executive Engineer
H.P.P.W.D. Sub Division
Dhami

Executive Engineer,
Shimla Rural Division,
HPPWD, Dhami

CHECK LIST NO. 28

Detail Reclamation Plan, whenever required. It should be realistic exhaustive and complete in all respects along with relevant maps in distinct colours. It should also include the details of back fillings, afforestation and execution of such works, whenever required.

Diversion of 1.4489 hectare of forest land has been proposed for the construction of motorable Link road from Patyar ghatru Via sitri jaya Berti Nallah Km. 0/0 to 3/600 in sub Tehsil Dhami, District Shimla. The construction of this road will generate muck to the extent of 54000 Cubic Metre. By taking a swell factor of 40% the total muck become 50400 cubic metre (Detail attached at Page___) Out of this 30240.00 cubic metre of muck will be used locally in filling, construction of masonry walls in dumping place and in leveling of road. The remaining 20160.00 Cubic metre of muck will require safe disposal. The user agency has identified 3 No. dumping site for the disposal of this muck. The dumping site has been identified along the proposed site and the capacity of these dumping sites has been worked out to be 31500.00 cubic metre (Detail attached at Page___) which is sufficient to hold the muck to be generated.

Thus all the muck generated will be dumped in the designated dumping sites. 3 number dumping site designated as DS-I & III had been identified for dumping of muck / debris to be produced during the construction phase of the project. It is proposed that the dumping sites are treated in such a manner that these do not pose any problem to the environmental management consideration arising out of the necessity to stabilize the dumping sites at the earliest. Therefore, this reclamation plan has been formulated with the following objectives:-

1. To arrest the dumped muck in-situ so that it does not find its way to the nearby drainage channels, thus altering the drainage pattern of the area.
2. To rehabilitate the dumped area over a period of time so that it merges with the Adjoining natural landscape and does not stand out as a sore point.
3. To improve the aesthetics of the dumping grounds/ dumping site by planting suitable Plants and trees species thereby increasing the forest cover in the area.
4. To stabilize the dumping site by vegetative and engineering structures.

Implementation :

The proposal will be implemented by the user agency itself at its own cost as detailed in this plan. The implementation of the plan will be supervised by the forest department from time to time and the progress will be periodically monitored. In case of default the sanction of diverted land may be revoked with suitable penalty as decided by the Govt. of India.

Strategy :

The pronged approach will be followed for reclamation of dumping sites. In the first instance crate wall will be erected around the dumping site so that required capacity for dumping of muck is created at the sites. The detailed drawings of the crate work to be undertaken are enclosed. The primary objective of the crate works will be to arrest the dumped muck at the dumping sites itself and not allow its spillage to adjoining areas and eventually to nearby drainage lines. The capacity of the dumping sites has been calculated as detailed in the table and will be enough to hold the muck required to be dumped in each of the sites.

In the second phase, once the dumping is complete it will be ensured that the dumping site is planted with grasses, bushes, shrubs and tree so that it gives an aesthetic look. This vegetal cover will also help in binding the soil and will prevent its erosion. For vegetating the dumping sites, suitable local species will be preferred. However, it may be noted that bulk of the muck to be dumped will be excavated material which will be lacking in essential nutrients and organic matter. Hence it will be desirable to increase the nutrient status of the top soil to make it conducive to tree/ vegetal growth. For this purpose maturing of top soil shall be done. If required, imported soil shall be brought to replenish the top soil. Instantly grasses and bushes will be planted in the area to improve the soil condition. Once these grasses and bushes take hold of the site, tree species will be planted in next phase. The tree species to be planted will be namely Robinia, Lucinea, albizia, Drek Amla Bamboo, Khair, Chail and Devdar.

Grasses like Steria and Napier will also be propagated. Trees will be Planted as the closer spacing so that canopy is closed at the earliest. Hence the spacing will be kept at 1.5 mtr. x 1.5 mtr. The total area involved in dumping is 7336 Square metre. Also due to inert nature of soil, plants will need extra care for their establishment. For this purpose, imported soil/ organic manure will be added in each pit for easy establishment of plants. Watering of the plant in dry season will be provided to prevent mortality. The plantation will be further maintained at project cost for next five year beating up of failure will be done.

Post reclamation arrangement :

Since the area in question is required by the user agency only for the temporary use of dumping, hence the area will be reverted back to forest department after implementing the reclamation plan, if so stipulated by Govt. of India. However if at the time of so reverting back the areas to forest department if any activities as per this reclamation plan is found wanting then the forest department may realize the cost that activity from the user agency at the prevailing wages rates applicable in forest department and may get the same done departmentally at the project cost.


Place : Dhami

Dated :-


Assistant Engineer
H.P.P.W.D. Sub Division
Dhami



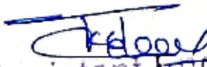
Divisional Forest Officer
Shimla Forest Division
SHIMLA

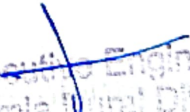

Executive Engineer,
Shimla Rural Division.
HPPWD, Dhami

Full title of the Project :- Diversion of 1.4489 hac.of forest land in favour of HPPWD for the construction of road from Patyar Ghatru via Sitri Jayan Berti Nallah 0/00 to 3/600, within the jurisdiction of Shimla Forest Division, Distt. Shimla, H.P. (online No. FP/HP/ROAD/155756/2022).

CERTIFICATE

It is certified that during the construction of road the affect of land sliding and soil erosion will be mitigate by providing necessary protection work i.e. R/wall, B/wall, wire crate works and cutting work will be done in scientific manner. The plantation of various species of grass, beds and bushes also be done in the soil erosion portion in specific manner which helps to counter the land sliding/soil erosion efforts in the affected area with the help and direction of expert team of forest department.


Assistant Engineer
H.P.P.W.D Sub Division
Dhami


Executive Engineer,
Shimla Rural Division
HPPWD, Dhami



HIMACHAL PRADESH STATE ELECTRICITY BOARD LIMITED

(A State Government undertaking)

CIN : U40109HP2009SGC031255

GST No : HPSEBL02AACCH4894EHZB

Office : ESD Sunni

Phone No : 0177-2786638

Email : aeesdsuni@gmail.com

No: - HPSEBL/ESS/E-8/2024-25-782-83

Dated:- 25/10/2024

To

✓ **The Assistant Engineer**
HPPWD Sub Division,
Dhami (HP).

Sub: - Issuance of NOC for diversion of 1.4489 Hectare of Forest land in favor of HPPWD Deptt. for construction of road from Patyar Ghatdu via Sit ki jayan Berti naalah with in the juderisdiction of Shimla Forest division, distt. Shimla HP.

Sir,

"JAI HIND"

With reference to yours office letter No PW-DSD-Sitri Jayan road/2024-25-438-441 Dated 07/10/2024 regarding issuance of No Objection Certificate.

In this connection it is informed that as per report submitted by Junior Engineer Electrical Section Mandhorghat, there is single phase LT line passing near the purposed road. No Objection Certificate issued to subject shift the LT line in proper right of way, so that electric supply could not be affected to respective consumers. No Objection Certificate is issued for further necessary action .


Assistant Engineer
Electrical Sub – Division
HPSEBL Sunni

Copy forwarded to the following for information and necessary action:-

- 1. The Sr. Executive Engineer Shimla Rural Electrical Division HPSEBL Sunni.**

✓
Assistant Engineer,
Electrical Sub – Division,
HPSEBL Sunni.

**HIMACHAL PRADESH
JAL SHAKTI VIBHAG**

No.EE-JSV-CB-WA-NOC -2024- **4178-79**

Dated **26-10-24**

To,

The Assistant Engineer,
HP, PWD Sub Division
Dhammi.

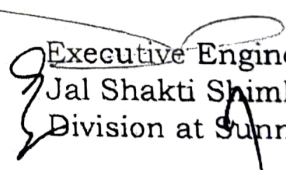
Sub:-

Issuance of NOC for Diversion of 1.4489 hectare of Forest land in favour of Himachal Pradesh Public work Department for construction of road from Patyar Ghatru via Sitiri Jayan Berti Nallah Within the jurisdiction of Shimla Forest division, distt. Shimla Himachal Pradesh.

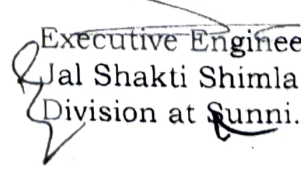
Ref:-

Your office letter No. PW-DSD-Sitri Jayan road /2024-25-438-41 dated 07.10.2024.

As recommended for NOC by the Assistant Engineer, Jal Shakti Sub Division Sunni, his office letter No. JS-SD-Sunni.Misc/2024-1667 dated 21.10.202, this office has no objection (NOC) for proposed C/O road from Patyar Ghatru via Sitiri Jayan Berti Nallah. If any pipe line etc. comes in the road alignment the same will be changed by executing agency at their own cost.


Executive Engineer,
Jal Shakti Shimla Rural
Division at Sunni.

Copy to the Assistant Engineer Jal Shakti Sub Division Sunni w.r.t his office letter referred above for information.


Executive Engineer,
Jal Shakti Shimla Rural
Division at Sunni.

Office of Divisional engineer
Shimla District,
Tel xae chhota shimla,9416439896



भारत संचार निगम लिमिटेड
(भारत सरकार का उपक्रम)
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

To

Assistant Engineer(HPPWD) ,

Sub Division, Dhamsi.

No: Det/ Sml/Gen-corr /2024-25/046 Dated: 22.10.2024.

Sub: Reg no dues certificate in respect of your office letter no PW-DSW-sitri-jayan-road-24-25 438-41 dated 07-10-2024 reg. no dues in respect of Diversion of Forest land for consruction of road from Patyar Ghatru via sitiri Jayan berti Nallah in this connection it is intimated that there is no any BSNL assests/lines etc within this location and BSNL has no objection for construction of Road on this location.


DET(Shimla) Divisional Engineer (Telegraph)
BSNL, Chotta Shimla-171002
BSNL, CHHOTA SHIMLA.



HPPTCL
Web: www.hpptcl.com

H.P. POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Ph.: - 0177-2831283, 2831284 FAX: -0177-2831284
(CIN): U40101HP2008SGC030950
(GSTIN): 02AACCH1648M1ZP

To

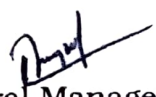
Dated: 08/11/2024

Assistant Engineer
HPPWD Sub Division
Dhami.

Sub: Regarding Issuance of NOC for Diversion of 1.4489 Ha. of Forest land.

Ref: No. PW-DSD-Sitri Jayan Road/2024-25-438-41 Dated 07.10.2024.

The No Objection Certificate for the Diversion of 1.4489 Ha. (Proposal No.: FP/HP/ROAD/155756/2022) of Forest land in favour of Himachal Pradesh Public work Department for construction of road from Patyar Ghatru via Sitiri Jayan Berti Nallah within the jurisdiction of Shimla Forest Division, Distt. Shimla Himachal Pradesh, is hereby issued in order to process the FCA case.


Dy. General Manager (Projects)
HPPTCL, HQ, Shimla



HIMACHAL PRADESH FOREST DEPARTMENT
OFFICE OF THE BHAJJI FOREST RANGE
SHIMLA FOREST DIVISION (R)
Bhajjirange635@gmail.com

No.....406../BH

Dated.....7/11/2024.

From :- Range Forest Officer,
Bhajji .

To:- Assistant Engineer
HPPWD Sub- Division
Dhami

Subject:- Diversion of 1.4489 hac. of forest land in favour of Himachal Pradesh
PWD for construction of road from Patgair to Ghatru via Sitri Jain
Proposal no FP/HP/Road /155756/2022 received on 8.7.2024

Sir ,

Kindly refer top your office letter no-436 dated- 07.10.2024 on the
subject cited above

In this regard it is submitted that the reply of observations raised vide above
referred subject cited above is placed as below :-

Pont no -4 Spot was inspected along with staff of PWD Sub- Division Dhami
on 23.10.2024. As per spot inspection there are proposed 3 dumping sites on this
proposed road alignment out of which 1 dumping site is proposed in Forest Land
in U-577 Jaini -Nali , comprising khasra no ~~1217/974/2~~ and 2 nos dumping sites are
proposed in pvt land of people . No any trees are standing upon the proposed
dumping sites.

Point no -14 . The proposed C.A site which is 2 hac , proposed in U-577 Jaini -
Nali falls in Chaneog Beat of Suni Forest Block. As per spot inspection there area
is not so thick and there are bushes of Lantana and other B/leaves in proposed C.A
site. The copy of C.H file is enclosed please. Therefore the report is submitted for
f/o information and further n/action please.

Range Forest Officer

**GEOLOGICAL INVESTIGATION FOR THE DIVERSION OF
14489 HECTARE OF FOREST LAND IN FAVOUR OF
HPPWD FOR C/O ROAD FROM PATYAR GHATRU VIA
SITIRI JAYAN BERTI NALLAH KM 0/00 TO KM 3/600
WITHIN THE JURISDICTION OF SHIMLA , H.P.**

**SUBMITTED TO :-
THE ASSISTANT ENGINEER,
H.P.PWD SUB DIVISION,
DHAMI**

BY:-

GEOTECH ENGINEERS AND CONSULTANTS
(A H.P. Govt. Approved & An ISO 9001-2015 Certified Material Testing Laboratory)
MARIA NIWAS, BELOW BCS, NEAR SANJAY GANDHI PUBLIC SCHOOL NEW
SHIMLA-171009 (H.P)
Mob No-8894700939

Table of Contents

1. INTRODUCTION	1
2. SCOPE OF WORK:-	1
3. IDENTIFICATION AND CLASSIFICATION OF SOIL :-.....	2
4. FOUNDATION ANALYSIS:-	3
5. RECOMMENDATIONS :-.....	4
6. ANNEXURE:-.....	6



Geotech Engineers and Consultants

(A.H.P. Government Approved & an ISO 9001-2015 ISO 14001-2015 and OHSAS 18001-2007 Certified Material Testing Laboratory)

Maria Niwas, Below BCS Near Sanjay Gandhi Public School, New Shimla-171009 (H.P.)

Mobile No. : 098161-53281, 088947-00939

E-mail ID : geotechconsultants09@gmail.com

Web : www.geotechconsultants.co.in

Services Available :

- Soil Investigation for Buildings, Bridges, Towers, Irrigation Structures, etc. by S.P.T., D.C.P.T. and Plate Load.
- Boring of Soil/ Rock upto the depth of 50 Mtr for Bridges, Building, Towers, Tunnels etc.
- Design Mix of Concrete for any Grade, Job mix of G.S.B., W.M.M., B.M., S.D.B.C. etc.
- Assessment of Road Crust/Overlays Thickness by Lab CBR and Benkelman Beam Deflection Techniques.
- Physical Tests of Aggregate, Sand, Stones, Cement Concrete Cubes, Bitumen required for Buildings, Towers, Storage tanks and also tests required for PMGSY, NABARD, National Highways, World Bank Roads etc in the Laboratory/field.
- Non Destructive Concrete Hammer test, Core cutting of flexible pavement and R.C.C. structure, Soil Resistivity test for Towers, Sub-station etc.

Ref. No. GEC-524

Date 25.11.2024

GEOLOGICAL INVESTIGATION FOR THE DIVERSION OF 14489 HECTARE OF FOREST LAND IN FAVOUR OF HPPWD FOR C/O ROAD FROM PATYAR GHATRU VIA SITIRI JAYAN BERTI NALLAH KM 0/00 TO KM 3/600 WITHIN THE JURISDICTION OF SHIMLA , H.P.

1. INTRODUCTION:-

1.1 Foundation engineering is the art of selecting designing and constructing the element that transfer the weight of a structure to the under lying soil/ rock. To know the nature and consistency of the sub-soil, geotechnical typical engineering properties of soil of various groups is valuable for the computation of bearing capacity.

1.2 The laboratory tests of soil was conducted by Geotech Engineers and Consultants, Maria Niwas, New Shimla on behalf of The Assistant Engineer, H.P. PWD Sub Division Dharmi to evaluate the Safe bearing capacity of Soil.

2. SCOPE OF WORK:-

2.1 Two number soil samples were supplied by the client, excavated at a depth of 1.5 mtr to the laboratory for further analysis in the laboratory to know the preliminary geo-technical information in respect of soil strata encountered in the test pits at the proposed site.

2.2 GRADATION ANALYSIS OF SOIL:-

The gradation analysis of soil were performed as per IS: 2720-Part III-1970 to work out the percentage composition of gravels, sand and fines (silt/clay).

The gradation analysis of soil revealed that the percentage composition of gravels, sand and fines (silt/clay) were found to vary from 57.4 % to 61.3 %, 20.4 % to 22.8 % and 18.3 % to 19.8 % respectively.

2.3 INDEX PROPERTIES OF SOIL:-

The index properties of soil has been done as per Code IS: 2720-Part V-1970 for calculating the plasticity index of soil.

The index properties of soil revealed that the liquid limits varies from 18 % to 19% with non-plastic in character.

2.4 COMPACTION PROPERTIES OF SOIL:-

The compaction properties of soil has been done as per IS: 2720-Part VII-1965 to know the compaction characteristic of the soil in the excavated test pits.

The field compaction revealed that the field moisture content and bulk density of soil were observed to be 4.0 % to 4.6 % and 1.95 gm/cc to 1.98 gm/cc respectively.

However, at Proctor compaction the value of OMC and MDD were found to vary from 8.0 % to 8.5 % and 1.99 gm/cc to 2.01 gm/cc respectively.

3. IDENTIFICATION AND CLASSIFICATION OF SOIL :-

The identification and classification of soil has been done as per code IS: 1498-1970.

The gradation analysis and index properties of soil held that the soil- strata was identified as that of the coarse grained soil of group symbol GM. The group symbol GM represented silty gravels, poorly graded gravels-sand-silt mixtures.

4. FOUNDATION ANALYSIS:-

Bearing capacity has been evaluated keeping in view of the foundation will be safe against shear failure. The value of angle of shearing resistance ϕ in Test Pit No. I and II were found to be 32.5° & 33.0° respectively and C-value is 0.0 kg/cm^2 in both cases by conducting the Direct shear test on the sample supplied to the laboratory and is further used for calculating the bearing capacity of soil as per IS: 6403:1981

The following equation has been used for calculating the safe bearing capacity of soil i.e. 32.5°

$$q_u = q(N'_q - 1) S_q d_q i_q + 0.5 \times B \times \gamma \times N'_\gamma \times S_\gamma \times d_\gamma \times i_\gamma \times w'$$

Where:

q_u = Net ultimate bearing capacity

ϕ = angle of shear resistance

q = Effective surcharge

B = Width of footing

γ = density

N'_q, N'_γ = Bearing capacity factors, local shear factor

S_c, S_q, S_γ = Shape factor

d_c, d_q, d_γ = Depth factor

i_c, i_q, i_γ = inclination factors

W' = Water table factor

For Strip footing :

$$\phi = 32.5^\circ, \quad N'_q = 9.06$$

$$N'_\gamma = 8.82,$$

$$i_q = i_\gamma = 1.0 \text{ (Vertical load),}$$

$$w' = 1$$

$$S_q = 1.0, \quad S_\gamma = 1.0$$

$$\gamma = 1.95 \text{ gm/cc}$$

Assumed, Depth of footing, $D_f = 1.5 \text{ mtr}$

Width of footing, $B = 1.8 \text{ mtr}$.

$$dq = dy = 1 + 0.1 Df/B \tan (45 + \phi/2) = 1.15$$

$$q_{ult} = 2.93 \times (9.06 - 1) \times 1.0 \times 1.15 \times 1.0 + 0.5 \times 1.8 \times 1.95 \times 8.82 \times 1.0 \times 1.15 \times 1.0 \times 1.0 \\ = 27.16 + 17.80 = 44.96 \text{ t/m}^2$$

With F.O.S. = 2.5

$$q_{safe} = 17.98 \text{ t/m}^2$$

5. RECOMMENDATIONS :-

5.1 A factor of safety 2.5 is recommended by Bureau of Indian Standards. So a factor of safety 2.5 is recommended to be adopted for the safe and economic foundation design of the Const. of road from Patyar Ghatru via Sitiri Jayan Berti Nallah Km 0/00 to Km 3/600 within the jurisdiction of Shimla Forest Division, Distt Shimla as its periphery falls in Seismic Zone No. IV.

5.2 The safe bearing capacity of soil 'qs' were found to be 17.98 t/mt² and 19.04 t/mt² for Test Pit No.I and II respectively.

So, keeping in view the structure consideration, the minimum value of safe bearing capacity **17.98 t/mt²** may be adopted for the construction of said structure.

5.3 Proper designed retaining wall/ breast walls of suitable height may be provided along the periphery of the said structure.

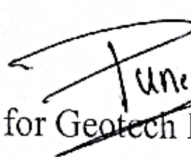
5.4 No where the foundation may be allowed to rest on overburden/ loose filing while constructing the structure.

5.5 These values do not take into the effect of under earthquake loading which may be considered by the Design Engineer at their own level while designing the said structure

5.6 The above said values of safe bearing capacity may hold good only for the soil samples supplied by the client from the site to laboratory. However, if any significant

change is noticed during actual excavation of foundations the soil consultants may be consulted for further opinion.

5.7 The surface soil water would require suitable drainage work along the periphery of the structure to prevent the tendency of water in filtration due to the seepage of water due to rain etc in the foundation.


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