

CHECK LIST SERIAL NO. 6

Muck Disposal Plan for Dubling – Rishi Dogri – Lamche Dogri Road (25.00 km)

Brief Summary of Project:

Recognizing the need for the development of border road connectivity in Northern Region of the country, Ministry of Home Affairs, Department of Border Management, Govt. of India has entrusted The Central Public Works Department (CPWD) for the construction of high altitude hill roads to Indo – China Border under phase – II in the states of Uttarakhand, Himachal Pradesh & Jammu & Kashmir (now UT of Ladakh). This work is of National importance having strategic in nature from Border Security aspect.

The Road Dubling – Rishi Dogri – Lamche Dogri is a vital link road which is being constructed for ITBP to reach and to protect Indian Territory up to Line of Actual Control. Hence, this will be a very important road to transport ammunitions and Military personals up to border of India. Therefore diversion of required forest land will be essential for constructing the road. In addition to above forest patrolling will also be easy on this road. The Road Dubling – Rishi Dogri – Lamche Dogri passed through hilly mountainous terrain area of the Kinnaur Forest Division in the State of Himachal Pradesh. This is cold desert type area the weather is cold and harsh. Oxygen level is low. The road passes between altitudes of 14000 – 19000 ft. from **Above Mean Sea Level (AMSL)**. The proposal for construction of Road Dubling – Rishi Dogri – Lamche Dogri from Km- 0+000 to Km- 25+000 has been prepared as per Forest Conservation Act, 1980 for obtaining forest clearance from Govt. of India.

Necessity of Project:

The road proposed along the approved alignment is required by ITBP in order to establish connectivity between its Border Outposts at Dubling – Rishi Dogri – Lamche Dogri. The military preparedness and security benefits are particularly critical in this region given the long – standing border and territorial issues with India's Eastern neighbor, China which makes road connectivity of paramount importance so as to ensure easy mobilization of troops, artillery etc. as and when required.

Muck Disposal Plan

Approximately 354674 cum of muck are to be disposed off. Out of this 19836 cum muck will be utilized for side filling and raising the level of the road in fill sections and Hard rock quantity (Rebate are consider in Estimation) is 205090 cum. Hence the quantity of unusable muck which is to be disposed off = 334838. For the disposal, 4.9715 Ha of land is being requisitioned in addition to the land required for construction of road. Locations of this muck disposal sites totaling for 49715 sqm is marked on Georeference Map and Toposheet.

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Geo Reference of Muck Disposal Area with location

S.No	Area Sqm	Longitude (E)			Latitude (N)		
		Deg	Min	Sec	Deg	Min	Sec
1	2000	78	34	1.56	31	44	43.51
2	2000	78	34	14.01	31	44	31.72
3	2000	78	34	32.64	31	44	23.39
4	2000	78	34	9.40	31	44	29.33
5	2000	78	34	31.82	31	44	20.13
6	1715	78	34	53.71	31	43	52.74
7	2000	78	34	47.82	31	44	12.41
8	2000	78	34	43.75	31	44	32.33
9	2000	78	34	52.91	31	44	12.80
10	2000	78	35	1.58	31	43	52.62
11	2000	78	34	58.67	31	43	34.92
12	2000	78	34	56.77	31	44	6.51
13	2000	78	35	1.69	31	44	25.33
14	2000	78	35	2.18	31	44	7.21
15	2000	78	35	7.43	31	43	39.23
16	2000	78	35	20.89	31	43	12.63
17	2000	78	35	12.88	31	43	42.92
18	2000	78	35	11.50	31	44	10.85
19	2000	78	35	20.99	31	44	2.91
20	2000	78	35	20.05	31	43	32.47
21	2000	78	35	38.88	31	43	7.39
22	2000	78	35	47.36	31	42	39.88
23	2000	78	36	9.82	31	42	24.40
24	2000	78	35	48.21	31	42	49.06
25	2000	78	35	43.30	31	43	17.61

Date: - 05/08/2021

Place: - Reckong Peo

Date: - 01/12/2021

Place: - Reckong Peo

Adarsh Kumar Mishra

Executive Engineer

ICBRPD-III, Reckong Peo

आदर्श कुमार मिश्रा

कार्यपालक अभियन्ता

भा.बी.सी.स.परि.मंडल-III, के.लो.नि.वि.

किन्नोर जिल्ला, हिमाचल प्रदेश-172107

(Original Royston A) IFS

Counter Signed

Deputy Conservator of Forests,

Kinnaur Forest Division

Office Seal at Reckong Peo, H P

Full Title of Project: Construction of high link road between Dubling – Rishi dogri – Lamche dogri Road Indo-China Border roads under Phase 2 in the state of Himachal Pradesh.

RECLAMATION PLAN FOR MUCK DUMPING

Approximately 354674 cum of muck are to be disposed off. Out of this 19836 cum muck will be utilized for side filling and raising the level of the road in fill sections and Hard rock quantity (Rebate are consider in Estimation) is 205090 cum. Hence the quantity of unusable muck which is to be disposed off = 334838. For the disposal, 4.9715 Ha of land is being requisitioned in addition to the land required for construction of road. After leveling, dumping sites will be rehabilitated by planting OBL plants. The reclamation plan for the dumping sites is prepared as under.

Area	Area in Hect.	Rate/ Ha.	Total Amount
0th Year (Plantation + Fencing)	4.9715	60150.00	299036
1th Maint.	4.9715	6350.00	31569
2nd Maint	4.9715	4300.00	21377
3rd Maint.	4.9715	2250.00	11186
4th Maint.	4.9715	2250.00	11186
5th Maint.	4.9715	2250.00	11186
6th Maint.	4.9715	2250.00	11186
7th Maint.	4.9715	2250.00	11186
8th Maint.	4.9715	2250.00	11186
9th Maint.	4.9715	2250.00	11186
10th Maint.	4.9715	2250.00	11186
TOTAL C.A SCHEME			441470
DEPARTMENTAL CHARGES @17.5%			77257
CONTINGENCY CHARGES @ 5%			22073
GST FOR THE COST OF F/POST 13800@ 18%			79464
NSY COST FOR PLANTS 838@ 23/-			19274
GRAND TOTAL			639538

Muck Dumping Certificate:-

It is certified that there is no trees/ shrub growth on the proposed land for dumping site. It is also certified that the said area will be developed by user agency.

Date:- 01/12/2021

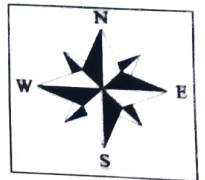
Place:- Reckong Peo

**Deputy Conservator of Forests,
Kinnaur Forest Division**
Office Seal
Deputy Conservator of Forests,
Kinnaur Forest Division at R/Peo HP.

(Adarsh Kumar Mishra)
Executive Engineer (CPWD)

कार्यपालक अभियन्ता
भा.वी.सी.स.परि. षडल-III, के.लो.नि.वि.
रिक्तांग पिओ, किन्नौर, हिमाचल प्रदेश-172107

DUBLING-RISHI DOGRI-LAMCHE DOGRI GEO REFERENCE OF MUCK DISPOSAL POINT TOTAL :-25K.M. LENGTH



START POINT

START POINT

Legend

Proposed Alignment

Muck Disposal Points



END POINT

GEO REFERENCE OF START & END POINTS

START POINT 31°44'57.50"N 78°34'47.50"E

END POINT 31°43'36.69"N 78°35'31.53"E

GEO REFERENCE OF MUCK DISPOSAL POINTS

S.NO	LATITUDE	LONGITUDE
1	31°44'43.51"N	78°34'1.56"E
2	31°44'31.72"N	78°34'14.01"E
3	31°44'23.38"N	78°34'32.64"E
4	31°44'29.38"N	78°34'9.40"E
5	31°44'20.13"N	78°34'31.82"E
6	31°43'52.74"N	78°34'53.71"E
7	31°44'12.41"N	78°34'47.82"E
8	31°44'32.33"N	78°34'43.75"E
9	31°44'12.80"N	78°34'52.91"E
10	31°43'52.62"N	78°35'1.58"E
11	31°43'34.92"N	78°34'58.67"E
12	31°44'6.51"N	78°34'56.77"E
13	31°44'25.33"N	78°35'1.69"E
14	31°44'7.21"N	78°35'2.18"E
15	31°43'39.23"N	78°35'7.43"E
16	31°43'12.63"N	78°35'20.89"E
17	31°43'42.92"N	78°35'12.08"E
18	31°44'10.85"N	78°35'11.50"E
19	31°44'2.91"N	78°35'20.99"E
20	31°43'32.47"N	78°35'20.05"E
21	31°43'7.39"N	78°35'38.88"E
22	31°42'39.88"N	78°35'47.36"E
23	31°42'24.40"N	78°36'9.82"E
24	31°42'49.06"N	78°35'48.21"E
25	31°43'17.61"N	78°35'43.30"E

Adarm

आदर्श कुमार मिश्रा

जवनवाल जवनवाल

फा.सी.सी.स.पी.पंचस-सु.उ.सो.मि.मि.
फिलिंग मिश्री, किन्नाुर, किन्नापुरा प्रदेस-171204

Date:- 05/02/2021

Place:- Reckong Poo

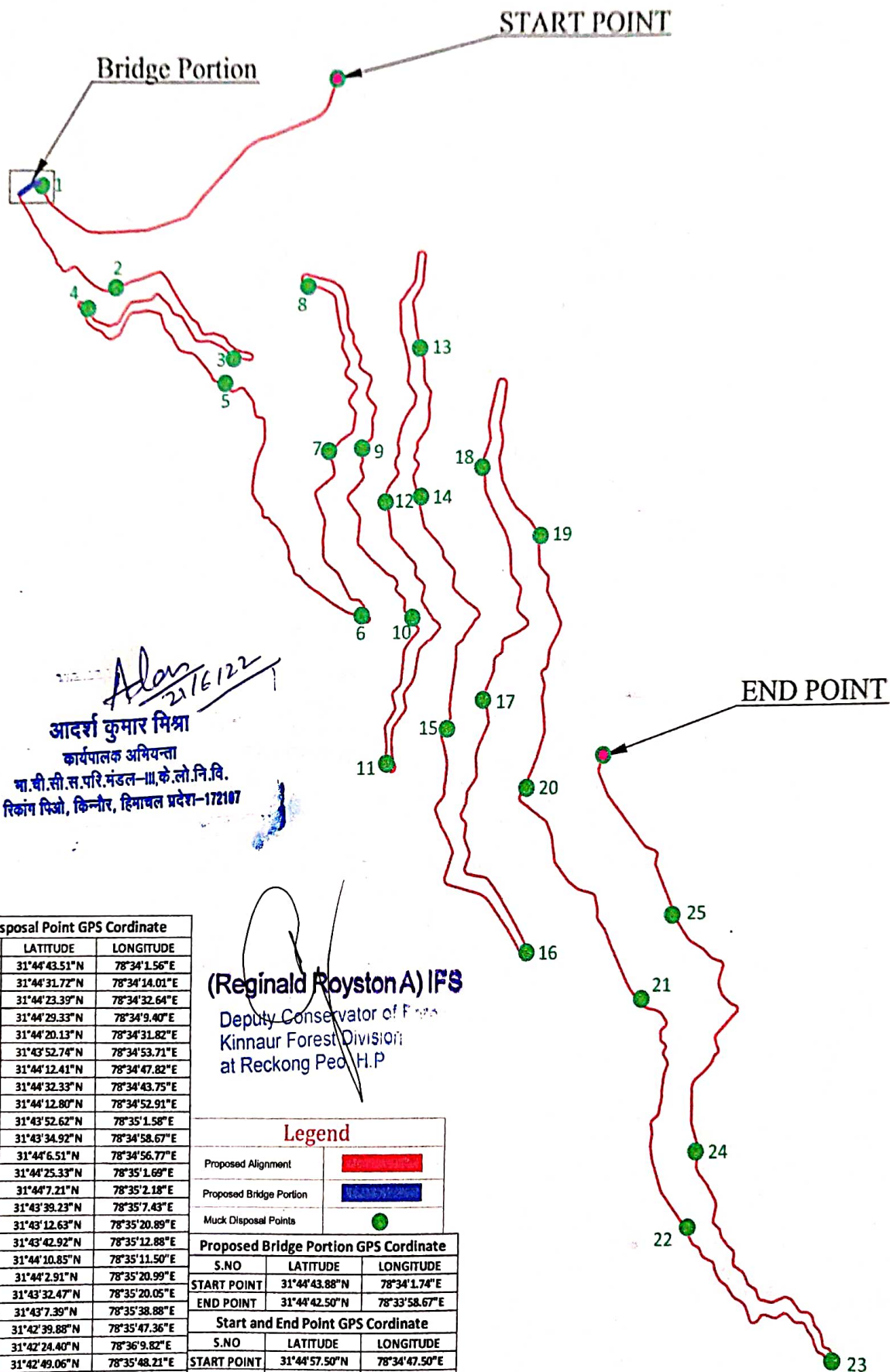
c/s

(Reginal J.P. Officer, J.P.O.)

Deputy Conservator of Forest
Kinnaur Forest Division
at Reckong Poo H.P.

Date:- 02/12/2021
Place:- Reckong Poo

**DUBLING-RISHI DOGRI-LAMCHE DOGRI
GEO REFERENCE OF MUCK DISPOSAL POINT
TOTAL :-25K.M. LENGTH**



Muck Disposal Point GPS Cordinate		
S.NO	LATITUDE	LONGITUDE
1	31°44'43.51"N	78°34'1.56"E
2	31°44'31.72"N	78°34'14.01"E
3	31°44'23.39"N	78°34'32.64"E
4	31°44'29.33"N	78°34'9.40"E
5	31°44'20.13"N	78°34'31.82"E
6	31°43'52.74"N	78°34'53.71"E
7	31°44'12.41"N	78°34'47.82"E
8	31°44'32.33"N	78°34'43.75"E
9	31°44'12.80"N	78°34'52.91"E
10	31°43'52.62"N	78°35'1.58"E
11	31°43'34.92"N	78°34'58.67"E
12	31°44'6.51"N	78°34'56.77"E
13	31°44'25.33"N	78°35'1.69"E
14	31°44'7.21"N	78°35'2.18"E
15	31°43'39.23"N	78°35'7.43"E
16	31°43'12.63"N	78°35'20.89"E
17	31°43'42.92"N	78°35'12.88"E
18	31°44'10.85"N	78°35'11.50"E
19	31°44'2.91"N	78°35'20.99"E
20	31°43'32.47"N	78°35'20.05"E
21	31°43'7.39"N	78°35'38.88"E
22	31°42'39.88"N	78°35'47.36"E
23	31°42'24.40"N	78°36'9.82"E
24	31°42'49.06"N	78°35'48.21"E
25	31°43'17.61"N	78°35'43.30"E

(Reginald Royston A) IFS
Deputy Conservator of Forest
Kinnaur Forest Division
at Reckong Pochamp H.P

Legend

Proposed Alignment	
Proposed Bridge Portion	
Muck Disposal Points	

Proposed Bridge Portion GPS Cordinate		
S.NO	LATITUDE	LONGITUDE
START POINT	31°44'43.88"N	78°34'1.74"E
END POINT	31°44'42.50"N	78°33'58.67"E
Start and End Point GPS Cordinate		
S.NO	LATITUDE	LONGITUDE
START POINT	31°44'57.50"N	78°34'47.50"E
END POINT	31°43'36.69"N	78°35'31.53"E

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NAME OF THE ROAD :- DUBLING-RISHI DOGRI-GANGTANG DRALAM (Length-25 Km)									
Description	Unit	%	Qty.						
Total Cutting in Road	Cum		559741						
Reuse of material	Cum		205090						
Reuse of stone (hard rock) material for making breast wall and retaining wall	Cum		75621.28						
Total	Cum		279031.7						
Add for Swelling factor 20 %	Cum		55806.34						
Total Dumping material in Cum	Cum		334838.1						
Muck Dumping Site = 25 nos.			Say 3,34,838.00 cum						
SR. NO.	DESCRIPTION	UNIT	No. of Structure	Length	Breadth	Height	QTY.	RATE (IN RS)	AMOUNT (in RS.)
1	Cost of Surveying and Investigation	Lump sum		1			1	25000	25000.00
2	Earthwork in excavation of foundation	Cum	25	100	2.60	0.5	3250	226	734500.00
3	Providing Stone Filled Gabion Wire Crates for protection works	Cum	25	100	Area =	9.33	23325	1955	45600375.00
3 A	Plantation of Plants	per plant	25				5000	30	150000.00
4	Digging of pit for plantation	Nos	25				5000	40	200000.00
5	Cost of Barbed Wire Fencing for protection of Plants @Rs/ 25-per plant	Nos	25				5000	25	125000.00
6	Salary for Gardener for 5 years @ Rs. 3500 -per month	Months					60	3500	210000.00
7	Seldars for protection of Plantation for 2.5 years @ Rs.100/-per day	Year					2.5	36500	91250.00
8	Reclamation and Restoration	Lump sum					1	75000	75000.00
9	Landscaping and Beautification.	Lump sum					1	75000	75000.00
Total Amount									47286125.00

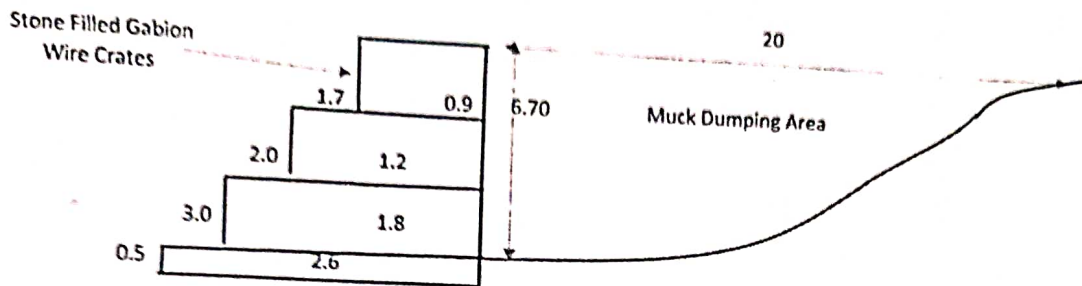
Note:-

- 1) Biological measures cost for stablization of muck dumping at site 951250.00
 2) Cost of engineering measures 46334875.00

LS No 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 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Area of Muck disposal (Sketch not to Scale)

	Length	Width	Height
Meter	100	20	6.70



Adarsh
01/12/21

आदर्श कुमार मिश्रा
कार्यपालक अभियन्ता
भा.बी.सी.स.परि.मंडल-ग्र.के.सो.नि.वि.
रिफॉर्म बिडो, किन्नौर, हिमाचल प्रदेश-172187

रजिस्ट्रार
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रजिस्ट्रार

(Reginald Royston A) IFS
Deputy Conservator of Forests,
Kinnaur Forest Division at R/Peo HP,