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2047/LAFC/PG-PG/ IE2

109 Road Constr Coy (GREF)  
Pin- 930 109  
C/O 56 APO

2 Apr 2021

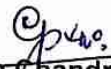
**Divisional Forest Officer**  
Kehmil Forest Division-Kralpora (J&K)

**SUBMISSION OF ENGINEERING MEASURE FOR MUCK DUMPING SITE WITH  
RESPECT TO PROPOSAL NO :- FP/JK/ROAD/44818/2020 REGARDING FCA  
PROPOSAL FOR CONSTRUCTION OF ROAD FROM KM 0.00 TO KM 13.41 PHARKIYAN  
GALI-PUTHKHAN GALI BY BRO.**

Sir,

1. Please refer PCCF letter No PCCF/FCA/3118/4969 dated 17 Mar 2021.
2. The requisite data pertaining to Engineering Measures for Stabilization of Muck Dumping Site in Forest Area as desired vide your under reference letter with respect to construction of road from km 0.00 to 13.41 Pharkiyani Gali-Puthkhan Gali by BRO as per Annexure- "A" & "B".
3. Submitted for your further necessary action please.

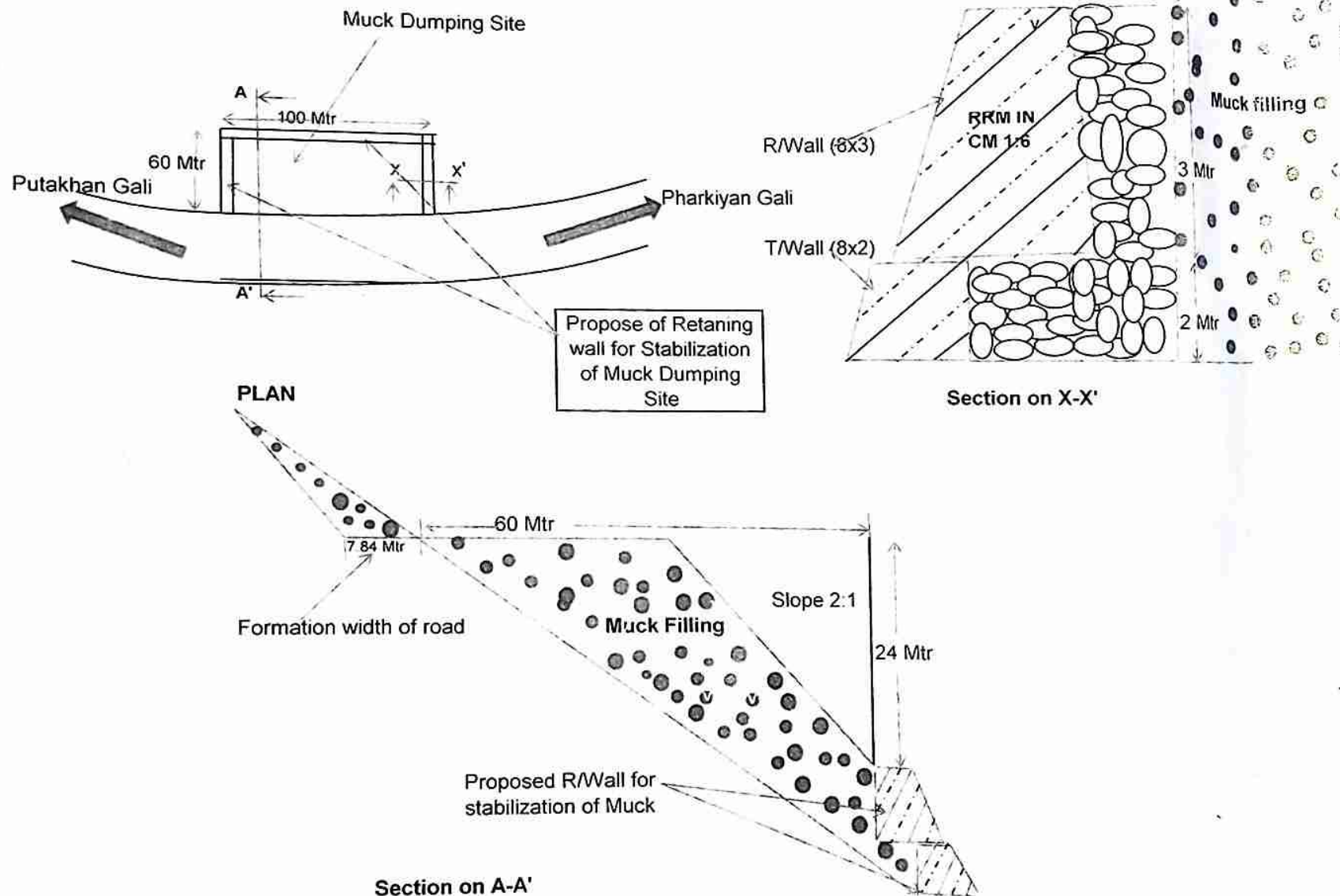
Yours sincerely,

  
(Nitin Chandra Joshi)  
Lt Col  
Officer Commanding

# SITE PLAN OF MUCK DUMPING SITE ON PHARIKAN GALI-PUTAKHAN GALI

**Location-** KM 6.300 ON Road Pharkian Gali-Putakhan Gali

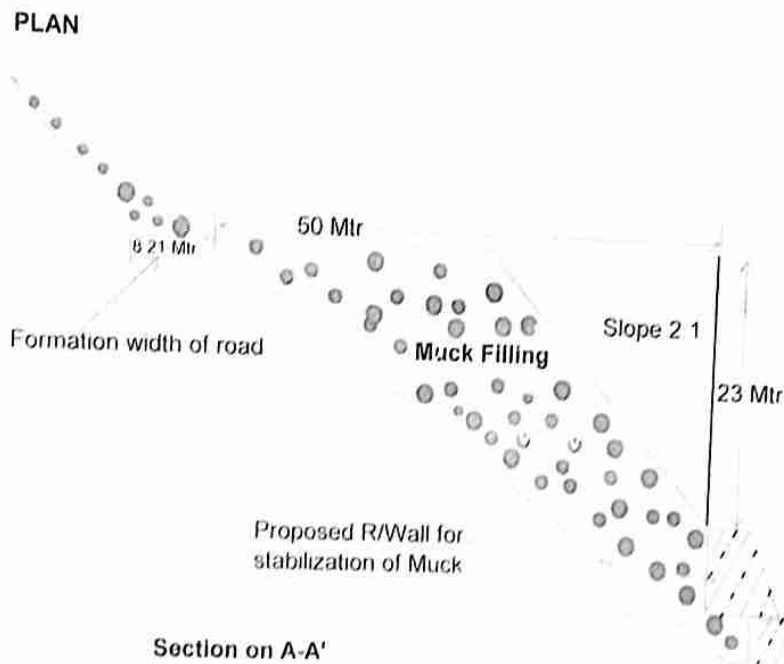
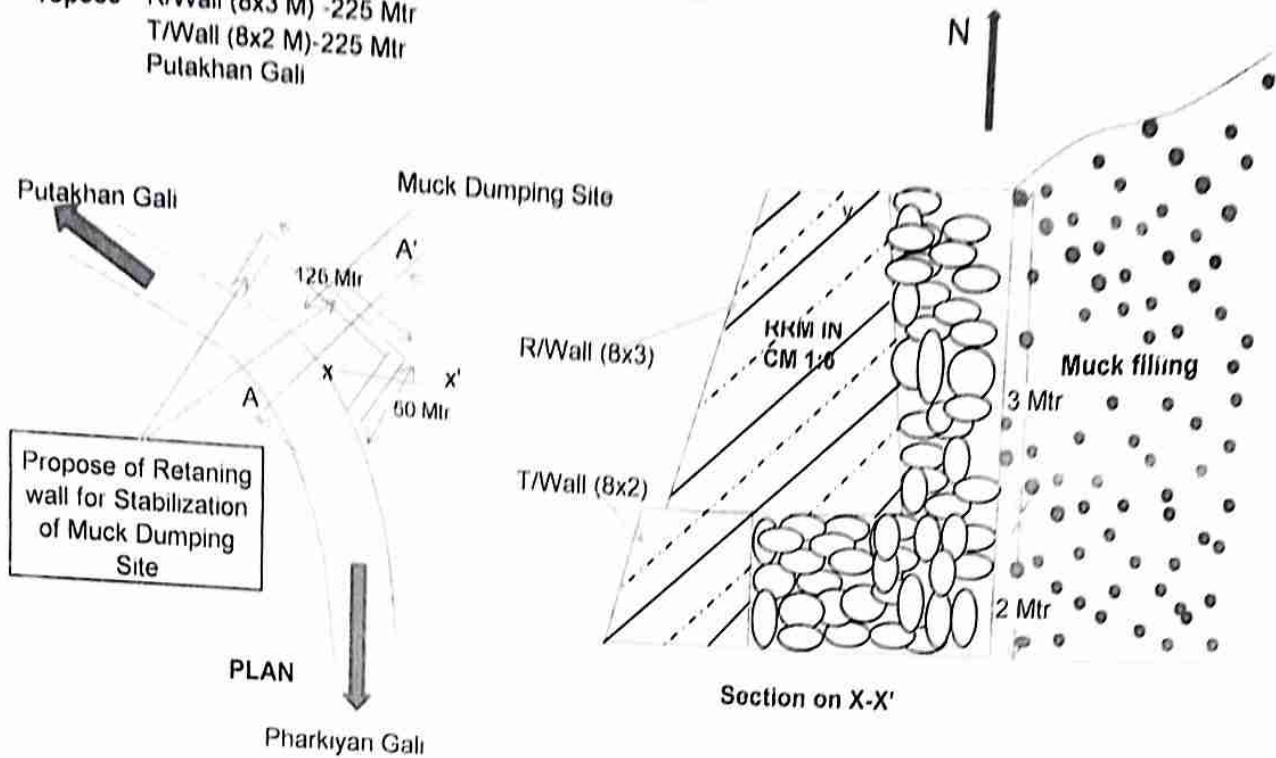
**Propose-** R/Wall (8x3 M) -220 Mtr  
T/Wall (8x2 M)-220 Mtr



(Nitin Chandra Joshi)  
Lt Col  
Officer Commanding  
109 RCC (G)

# **SITE PLAN OF MUCK DUMPING SITE ON PHARIKAN GALI-PUTAKHAN GALI**

ation- KM 12.200 ON Road Pharkian Gali-Putakhan Gali  
 ropose- R/Wall (8x3 M) -225 Mtr  
 T/Wall (8x2 M)-225 Mtr  
 Putakhan Gali



(Nitin Chandra Joshi)  
 Lt Col  
 Officer Commanding  
 109 RCC (GREF)


**APPROXIMATE ESTIMATE  
PART-II**

Name of State : Jammu and Kashmir  
Name of Unit/Project : 109 RCC/32 BRTF/BEACON

SSR 2016 Zone-'J' All CI

Name of work **APPROXIMATE ESTIMATE FOR STABILIZATION OF MUCK DUMPING SITE AT KM 1.275, KM 6.300 AND KM 12.200 FOR CONSTRUCTION/ IMPROVEMENT OF ROAD PHARKIYAN GALI-PUTHAKHAN GALI FROM CL-5 TO NHSL WITH PAVED SHOULDERS FROM KM 0.00 TO KM 13.410 (FMN WIDTH 7.45 MTR) UNDER 109 RCC/32 BRTF/PROJECT BEACON IN JAMMU & KASHMIR STATE (NOW UT)**

S/N o	Name of Work	Ref SSR	Brief specifications	A/U	ALTD 2700-3000 MTR			Altd between 3001- 3300 Mtr			G/TOTAL
					Qty	Rate	Amount	Qty	Rate	Amount	
(A) Permanent works											
1	P101		Excavation in trenches not exceeding 1 2m width and 1 5 m depth in soil/soil mixed with boulders including dressing bottom and sides getting out and disposing all excavated materials lead up to 3m and lift up to 1 5m	Cum	1345 25	474 14	637835	2660 60	500 59	1331869	1969704
2	P-202		Cement concrete (1 cement 4 sand 8 stone aggregate of size 4 cm graded downwards) in foundation or elsewhere (excluding the cost of centering/shuttering)	Cum	240 26	4397 87	1056610	475 17	4565 58	2169431	3226041
3	P-505		RRM 1 6	Cum	1127 49	4811 38	5424765	2229 92	5039 48	11237623	16662388
4	P807		Providing/laying of weep holes	Mtr	725 63	208 56	151336	1435 13	211 01	302826	454162
5	P-601		Filling of stone/selected materials inlayers well packed behind retainingwalls, breast walls, abutment/wing wallsof bridges or culverts(labour and material)	Cum	476 72	1315 17	626966	942 84	1387 17	1307885	1934851
Total (B)							7897512			16349634	24247146
Credit for CP Tradesman											-1703798.00
Credit for PNR											-919663.00
Road Lift Charges											7121136.00
Extra TPT											2907421.00
Royalty Charges											394664.23

  
 (Nishu Chandra Joshi,  
 Lt Col  
 Officer Commanding  
 109 RCC (GREF)



APPROXIMATE ESTIMATEPART - I

Name of State  
Name of Unit/Project

Jammu and Kashmir  
109 RCC/32 BRTF/BEACON

SSR 2016 Zone/J All CPL

Name of work

APPROXIMATE ESTIMATE FOR STABILIZATION OF MUCK DUMPING SITE AT KM 1.275, KM 5.395 AND KM 12.200 FOR CONSTRUCTION/IMPROVEMENT OF ROAD PHARKHAN GALL-PUTHAKHAN GALL FROM SL 5 TO NHSL WITH PAVED SHOULDERS FROM KM 0.00 TO KM 13.419 (FMN WIDTH 7.45 MTR) UNDER 109 RCC/32 BRTF/PROJECT BEACON IN JAMMU & KASHMIR STATE (NOW UT).

S/No	Description of Works	Pmt Wks
A	Cost of works	24247148.00
	(i) Road Lift Charges	7121136.00
	(ii) Extra lpt charges	2907421.00
	(iii) Credit for PNR	-919663.00
	(iv) Credit for CP Tradesman	-1703798.00
	Total [A]	21652242.00
B	Escalation charge @ 15.44% for 2021-22	48871.00
	Total (B)	48871.00
	Total [A + B]	21701113.00
C	Add following charges	
1	Quality Control Charges @ 1%	317011.00
2	Physical contingencies @ 5%	1585056.00
3	Labour Cess 1%	317011.00
	Total [C]	2219078.00
D	Royalty charges	394864
	G/Total (A to E)	Rs 24314855
		343.15 Lacs

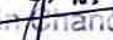
*(Signature)*  
(Nitin Chandra Joshi)  
Lt Col  
Officer Commanding  
109 RCC (GREF)

## Annexure-B-I

## PERFORMA-V

STATEMENT SHOWING DETAIL OF PLACES FOR DISPOSAL OF MUCK FOR CONSTRUCTION /IMPROVEMENT OF ROAD CL-9 SBA SPECIFICATION FROM KM 0.00 TO KM 13.41 PHARKIYAN GALI-PUTHKHAN GALI BY BRO.

Sr No	Name of dumping place	Location of dumping place (KM)	Slope of dumping place	Length and width (in mtr) and Area of dumping place (in sqm)	Quantity of muck to be dumped (in Cum)	Height of dumping expected	Remark (Area in Bigha)
1	I St Dumping yard	1.275	01:02	(125x50 Mtr)=6250	97282.962	17	2.47
2	II nd Dumping yard	6.300	01:02	(100x60 Mtr)=6000	131203.968	24	2.37
3	III rd Dumping yard	12.200	01:02	(125x50 Mtr)=6250	131203.968	23	2.47
Total					359690.898		

  
 Prakash Chandra Joshi  
 Lt Col  
 Officer Commanding  
 109 RCC (GREF)

FULL TITLE OF PROJECT- CONSTRUCTION /IMPROVEMENT OF ROAD CL-9 SBA  
SPECIFICATION FROM KM 0.00 TO KM 13.41 PHARKIYAN GALI-  
PUTHKHAN GALI BY BRO.

FILE NO-FP/JK/ROAD/44818/2020

DATE OF PROPOSEL-18 FEB 2020

DETAIL OF MUCK/DEBRIES TO BE PRODUCED

**NAME OF WORK-** CONSTRUCTION / IMPROVEMENT OF ROAD PHARKIYAN GALI-  
 PUTAKHAN GALI FROM CL-5 TO NHSL WITH PAVED SHOULDERS KM 0.00 TO KM 13.410 (FMN  
 WIDTH 7.45 MTR) UNDER 109 RCC/32 BRTF/PROJECT BEACON IN JAMMU & KASHMIR STATE  
 (NOW UT)

Detail of quantity to be produced and used during the construction

Sr No	Description	Qty
1	Total quantity of muck to generated from the project	315399.39
2	Total quantity of aggregate requirement	26192.25
3	Total quantity of enbankment filling	32285.08
4	Total quantity to be utilised	58477.33
5	Quantity of muck to be disposed	256922.06
6	Total quantity of muck to be disposed after considering Swelling factor for loose muck @ 40%	359690.8793

  
 (Nitin Chandra Joshi)  
 Lt Col  
 Officer Commanding  
 109 RCC (GREF)

## PERFORMA -III (REFER ITEM -8)

STATEMENT SHOWING DUMPING QUANTITY OF MUCK/DEBRIS TO BE DUMPED WITH OTHER DETAIL FOR PROJECT CONSTRUCTION /IMPROVEMENT OF ROAD CL-9 SBA  
SPECIFICATION FROM KM 0.00 TO KM 13.41 PHARKIYAN GALI-PUTHKHAN GALI BY BRO.

Sr No	Name of Component from Muck is to be produced	Total Qty of Muck to be produced	Qty of Muck to be utilized locally (in Cum)	Qty of Muck to be dumped on compact basis (in Cum)	Factor of increase in Vol for Dumping (Cum)	Qty of Muck to be Dumped on basis of increase (in Cum)	Name of dumping place	Slope of dumping place	Location of Dumping place, Police Station & Nearby road	Distance of dumping place from river (in KMS)	Area of dumping place with Length and Breadth (in hect)	Area of forest land out of land (In hect)	Height of Muck dump expected (Vol Area) in Mtr	Remark
1	Formation cutting work	85474.21	15986.38	69487.83	1.4	97282.962	I St Dumping yard	2H 1V	Km 1.275 on Pharkian Gali-Puthkhan Gali, P S- Karalpora & Road- Malyal-Pharkiyen Gali-Dat Bridge	NA	L=125 Mtr B= 50 Mtr Area=0.625 Hect	0.625	17	
2	Formation cutting work	114962.59	21245.47	93717.12	1.4	131203.968	II nd Dumping yard	2H 1V	Km 6.300 on Pharkian Gali-Puthkhan Gali, P S- Karalpora & Road- Malyal-Pharkiyen Gali-Dat Bridge	NA	L=100 Mtr B= 60 Mtr Area=0.600 Hect	0.600	24	
3	Formation cutting work	114962.59	21245.47	93717.12	1.4	131203.968	III rd Dumping yard	2H 1V	Km 12.200 on Pharkian Gali-Puthkhan Gali, P S- Karalpora & Road- Malyal-Pharkiyen Gali-Dat Bridge	NA	L=125 Mtr B= 50 Mtr Area=0.625 Hect	0.625	23	

*G. S. Joshi*  
(Vinit Chandra Joshi)  
Lt Col  
Officer Commanding  
109 RCC (GREF)



L TITLE OF PROJECT- CONSTRUCTION /IMPROVEMENT OF ROAD CL-9 SBA SPECIFICATION FROM KM 0.00 TO KM 13.41 PHARKIYAN GALI-PUTHKHAN GALI BY BRO.

FILE NO-FP/JK/ROAD/44818/2020

DATE OF PROPOSEL-18 FEB 2020

STATEMENT SHOWING THE ROAD TO BE CONSTRUCTION /IMPROVEMENT OF ROAD CL-9 SBA SPECIFICATION FROM KM 0.00 TO KM 13.41 PHARKIYAN GALI-PUTHKHAN GALI BY BRO.

Sr No	Road (KM)		Distance in Mtr			Width of right of way	Area of Road		Total Area in Sqm	Name of village /Muhala and forest area nearly	Muck to be produced Total Cum	Muck to produce locally form work	Muck dumped locally for work
	From	To	Forest land (in Mtr)	Non Forest Land (in Mtr)	Total (in Mtr)		Forest land	Non Forest Land					
1	0	13.41	13410	0	13410	15	13410x15=201150 Sqm OR 20 1150 Hec	0x15=0 Sqm OR 0 00 Hec	13410x15=201150 Sqm OR 20 1150 Hec	Pharkiyar	315399.39	256922.1	58477.32