

(To be uploaded as additional document in Part-II)

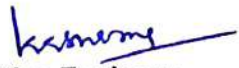
CHECKLIST (DFO)

Name of the Proposal: PMGSY Road Malhar to Marhoon (FP/JK/ROAD/47637/2020)
Division: Billawar Forest Division, Billawar

Division: Bilawar Forest Division, Bilawar

S.no.	Particulars	Document enclosed (Yes/No)	
1	Fill the Form-A (Part-II)	Yes	
2	Joint Inspection by the representative of DFO and Project Authority and authentication of:		
	(i)	inspection report	Yes
	(ii)	enumeration list of trees/poles on the forest	Yes
	(iii)	calculation of area (length and width) of forest land involved	Yes
	(iv)	Layout plan with dimensions	Yes
3	Certificate that all alternatives have been explored and the proposed forest land is the minimum land required for the project, as per format (attached) .	Yes	
4	C.A. Proposal approved by the competent authority	Yes	
5	Geo-reference map of CA site	Yes	
6	Suitability certificate from the DFO regarding area proposed for CA (degraded forest land/non-forest land) suitable from management point of view, as per the format (attached)	Yes	
7	Calculation sheet of NPV	Yes	
8	Calculation sheet of Extraction charges	Yes	
9	Undertaking by User Agency to pay the following for the forest land involved duly countersigned by DFO as per the format (attached).		
	a)	C.A,	Yes
	b)	the Net Present Value (NPV)	Yes
	c)	Additional Net Present Value (NPV) if any,	Yes
10	All proposals involving forest land more than 5 Ha (except for defence and building construction related cases) shall include a cost-benefit analysis, as per the format.	Yes	
11	Site inspection report of DFO as per the format (attached)	Yes	
12	Muck disposal plan	Yes	
13	Specific recommendation of DFO	Yes	
14	Recommendation of concerned Conservator of Forests		
15	Violation report, if any	No	


Divisional Forest Officer
Billawar Forest Division
Billawar


Executive Engineer
PMGSY Division
Billawar

CHECKLIST (User Agency)

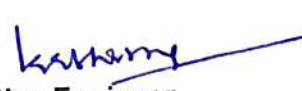
Name of the Proposal: PMGSY Road Malhar to Marhoon (FP/JK/ROAD/47637/2020)

Division: Billawar

User Agency PMGSY

S.no	Particulars	Document enclosed (Yes/No)
1	Register online through the portal "parivesh.nic.in"	Yes
2	Fill the Form-A- Part-I (extent of proposed area for diversion to be preferably in two digits after decimal)	Yes
3	Upload authorization letter to the person submitting application on PARIVESH portal by the competent authority of the user agency. ID Card, PAN Card etc not to be uploaded.	Yes
4	Upload colored Survey of India Toposheet Map of the project site / forest land to be diverted, or any suitable map with legend authenticated by the representative of DFO (Territorial) and Project Authority	Yes
5	Upload KML file of the forest land to be diverted under the project. KML of Non-Forest Land (NFL) in different shade to be uploaded, if necessary.	Yes
6	Upload Geo-reference map showing GPS Coordinates of the forest land proposed for diversion	Yes
7	Upload Justification for locating the project on forest land	Yes
8	Upload original copy of the communication addressed to the concerned Deputy Commissioner for recognition and vesting of forest rights in accordance with the provisions of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (2 of 2007) for the entire forest land indicated in the proposal	Yes
9	Additional documents:	
i)	Brief Project Note (covering the main features of the proposal, particularly, its implication on environment/forest and mitigation measures like construction of retaining/breast walls and number of people to be benefited from the project)	Yes
ii)	Approval of the project by the competent authority.	Yes


Divisional Forest Officer
Billawar Forest Division
Billawar


Executive Engineer
PMGSY Division
Billawar



Jammu and Kashmir Forest Department

OFFICE OF THE DIVISIONAL FOREST OFFICER BILLAWAR FOREST DIVISION BILLAWAR

Ph./Fax No. 01921-295430

E-mail: dfo.billawar@gmail.com

The Conservator of Forests,
East Circle,
Jammu.

No. DFO/BLR/1110-13

Dated: 17.06.2021

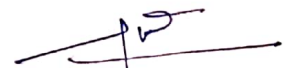
Sub: Submission of the revised NPV Calculation Sheet alongwith revised Cost-Benefit Analysis
Ref: Online meeting regarding Forest clearance conducted by IRO, Chandigarh on 17.06.2021
Sir,

On the subject & reference cited above, it is submitted that the proposal for construction of PMGSY road from Malhar to Marhoon (FP/JK/ROAD/47637/2020) was thoroughly scrutinized in light of the directions issued by the IRO, Chandigarh on 17.06.2021. On scrutiny, it was found that there was a discrepancy in the NPV calculation sheet due to clerical error. The same has been corrected and is enclosed herewith as **Annexure-A**.

Similarly, the Cost-Benefit Analysis prepared on the basis of previously calculated NPV was also subject to revision. The Executive Engineer, PMGSY Division, Billawar, has accordingly furnished the revised Cost-Benefit Analysis on the basis of the corrected NPV value vide his letter No. E/PMGSY/B/581-582 dated 17.06.2021 which is also enclosed herewith as **Annexure-B**.

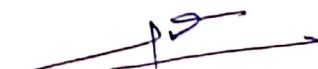
Hence, both the corrected documents are being submitted for your kind perusal and further necessary action.

Yours faithfully,


(Vivek Modi) SFS
Divisional Forest Officer
Billawar Forest Division
Billawar

Copy submitted to the:

1. Additional Pr. Chief Conservator of Forests (Nodal Officer) FCA, for favour of kind information.
2. Chief Conservator of Forests, Jammu for favour of kind information.
3. Executive Engineer, PMGSY Division, Billawar for information.


Divisional Forest Officer
Billawar Forest Division
Billawar

Calculation sheet of Net Present Value (NPV)

'Annexure - A'

A) Net Present Value of the forest area coming in the Construction of Road alignment from Malhar to Marhoon under PMGSY passing through Co.25a,25b/Blr of Forest Range Billawar in Billawar Forest Division

Construction of Road alignment from Malhar to Marhoon under PMGSY passing through Co.25a,25b/Blr of											
S. No	Division	Comptt. No.	RD's involved in Kms	Length of Road	Width of Road (mtr's)	Area (m2)	Area (Ha)	Canopy Density	Eco-Class	NPV Rate (Lakh/Ha)	NPV amount (Rs in Lakhs)
1	Billawar	25a,25b /Blr	RD 0/000 Km to Rd 0/125 Km	125	6	750	0.075	1.0	Class-VI	9.91	0.7433
2			RD 0/775km to RD 1/075 Km	300	6	1800	0.18	0.6		8.97	1.6146
3			RD 1/235 Km to RD 2/325Km	1090	6	6540	0.654	0.3		6.99	4.5715
4			RD 3/700 Km to RD 5/125 Km	1425	6	8550	0.855	0.6		8.97	7.6694
5			RD 5/825 km to RD 7/425 Km	1600	6	9600	0.96	0.6		8.97	8.6112
6			RD 7/785 km to RD 10/100 Km	2315	6	13890	1.389	0.8		9.91	13.7650
7			RD 10/100 km to RD 11/750 Km	1650	6	9900	0.99	0.6		8.97	8.8803
8			RD 11/750 km to RD 12/975 Km	1225	6	7350	0.735	0.5		8.97	6.5930
Total (A)				9730		58380	5.838				52.4481
(B) NPV of the Forest land proposed for Muck Dumping sites											
1											

(B) NPV of the Forest land proposed for Muck Dumping sites

1	Billawar	25a,25b /Blr	Proposed for Truck Dumping sites					52.4481			
2			RD 0/775 to RD 0/815	40	25	1000	0.1	0.8	Class-VI	9.91	0.9910
3			RD 1/235 to RD 1/275	40	25	1000	0.1	1.0		9.91	0.9910
4			RD 1/945 to RD 1/985	40	25	1000	0.1	0.1		6.99	0.6990
5			RD 4/100 to RD 4/140	40	25	1000	0.1	0		6.99	0.6990
6			RD 4/700 to RD 4/740	40	25	1000	0.1	0.3		6.99	0.6990
7			RD 6/585 to RD 6/625	40	25	1000	0.1	0.5		8.97	0.8970
8			RD 7/935 to RD 7/975	40	25	1000	0.1	0.8		9.91	0.9910
9			RD 8/875 to RD 8/915	40	25	1000	0.1	0.5		8.97	0.8970
10			RD 9/650 to RD 9/690	40	25	1000	0.1	0		6.57	0.6570
11			RD 10/500 to RD 10/540	40	25	1000	0.1	0.5		8.97	0.8970
11			RD 12/450 to RD 12/490	40	25	1000	0.1	0.8		9.91	0.9910
Total (B)						11000	1.1	9.4090			
G.Total (A+B)					61.8571						

Range Forest Officer
Billawar Forest Range
Billawar

Divisional Forest Officer
Billawar Forest Division
Billawar

OFFICE OF THE EXECUTIVE ENGINEER PMGSY
DIVISION BILLAWAR

To,
Divisional Forest Officer,
Forest Division,
Billawar.

No.-EE/PMGSY/B/ 581- 582
Dated:- 17-06-2021

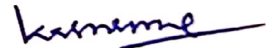
Subject:- Submission of Revised Cost benefit analysis as per revised NPV for proposal involving forest for road from Malhar to Marhoon, Pkg No. JK07-136 , Stage Ist.

Ref:- Online meeting regarding Forest Clearance conducted by IRO Chandigarh on 17-06-2021.

Sir,

In reference to the subject cited above, kindly find enclosed herewith the revised cost benefit analysis as per revised NPV for proposal involving forest for road from Malhar to Marhoon, Pkg No. JK07-136, Stage Ist, Block:- Lohai Malhar.

Yours Faithfully,



(Er. Kamal Kishore Sharma)
Executive Engineer
PMGSY Division
Billawar

Copy to

- 1) Chief Engineer PMGSY JKRRDA Jammu for favour of information please.

Annexure-II

Conducting Cost-Benefit analysis for proposal involving Forest Diversion
Table-A: Cases under which a cost-benefit analysis for forest diversion are required

S. No.	Nature of Proposal	Applicable / Not-Applicable	Remarks
1	All Category of Proposals Involving forest land upto 20 Hectares in Plains and Upto 5 Hectare in hills	Not Applicable	These proposals may be considered on a case-to-case basis and value judgment.
2	Proposals for defense installation purposes and oil prospecting (Prospecting Only)	Not Applicable	In view of national Priority accorded to these sectors, the proposals would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use.
3	Habitation, establishment of industrial units, tourist lodges / complex and other building construction.	Not Applicable	These activities being detrimental to protection and conservation of forest, as a matter of policy, such proposals would be rarely entertained
4	All other proposals involving forest land more than 20 Ha. in plains and more than 5 Ha. in hills including roads transmission lines, minor and major irrigation projects, hydro projects, mining activity, railway lines located specific installation like micro - wave stations, auto repeater centers, T.V towers etc.,	Applicable	These are cases where a costbenefit analysis is necessary to determine when diverting the forest land to non-forest use in the overall public interest.

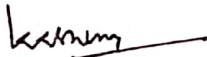

Executive Engineer
PMGSY Division
Billawar

Table-B Estimation of cost of Forest diversion

S. No.	Parameters	Remarks
1.	Ecosystem services losses due to proposed Forest Diversion	Ecosystem loss due to proposed Forest Diversion = Rs. 61.8571 Lakh
2.	Loss of animal husbandry productivity, including loss of fodder	We may take as 10% of NPV = Rs. 6.18 Lakh
3.	Cost of human resettlement	At least 05 structures are coming in the road alignment and their likely compensation works out to be Rs 30 Lacs. Approx.
4.	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways etc.) on forest Land, which would require forest land if these facilities were diverted due to the project.	no loss of public infrastructure like roads, hospital etc are investigated. However, there may be some utility shifting like, electricity pole, PHE pipelines etc. the likely cost of these utility shifting is Rs. 5 lacs.
5.	Possession value of forest Land diverted	We may take as 30% of NPV = Rs. 18.55 Lakh
6.	Cost suffering to oustees	APPROX 3 Ha of private land is coming under the alignment of the road. Generally 1 Crop is cultivated in the agricultural land throughout the year. The agricultural productivity is about 300tl per ha @ Rs 1300 per Qtl. For 3 Ha area and for 3 Years, cost Rs = 1.17 Lacs
7.	Habitat Fragmentation Cost.	Cost Due to fragmentation is Rs. 61.8571 Lakh x 0.50 = Rs. 30.92 Lakh
8.	Compensatory Afforestation and soil & moisture conservation cost	The cost of compensatory Afforestation is Rs. 15.26 Lakh

Total Cost = Rs. 168.9371 Lakhs

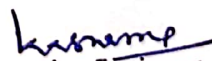
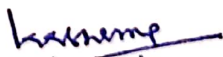

 Executive Engineer
 PMGSY Division
 Billawar

Table-C Existing guidelines for estimating benefits of forest diversion in CBA

S. No.	Parameters	Remarks
1.	Increase in productivity attribute to the specific project.	Road is a basic amenity which makes a crucial contribution both in social and economical way of growth and development of an area and general inhabitants. Because of new road there shall be positive impact on agricultural productivity due to easy access to technology and marketing. As per annexure 1-a increase in productivity is Rs. 194.71 Lakh
2.	benefits to economy due to the specific project	Economic Benefit in terms of increase in trade, Saving in vehicular operation and maintenance cost, better connectivity, safe journey to Commuter and Saving of time travel Improved road connectivity helps in better implementation and management of Govt. schemes. It will provide last and economical transport of goods after completion of project. The local people in the area will be greatly benefitted. As per annexure 1-b,c Benefit= Rs. 7.45 Lacs
3.	No. of population benefited due to specific project.	As per Census 2011, about 1095 population shall be benefited in Village Malhar, Malad and Marhoon.
4.	Economic benefits due to of direct and indirect employment due to the project.	During construction phase about 50 workers and 10 technical staff may be employed at site Total Cost = Rs. 172.80 Lakh
5.	Economic benefits due to Compensatory afforestation	There shall be Compensatory afforestation on 13.876 ha of degraded land in Kathua District. Over the years it will lead to economic. benefits by providing timber, fuel and fodder in the area. The ecological value for a 50 year period for the density of 1 is Rs 126.74 Lacs per Ha by considering minimum 0.3 density the ecological gain for the project would be Rs. $126.74 \times 0.3 \times 13.876 = \text{Rs. } 527.593 \text{ Lakhs}$

Total benefit = Rs 902.553 Lakhs
Benefit cost ratio = $902.553/168.9371 = 5.34$


Executive Engineer
PMGSY Division
Billawar

Name of Work:- Construction of road from Malhar to Marhoon (Part-I) Phase-X, Pkg No:- JK07-136, Length :- 12.975 Kms, Stage-Ist.

A) Increase in Agriculture Produce

1	Total earning of the District	Rs. 19616.88 Lacs
2	Total Length of road in the District	1306.94 Kms
3	Earning Per Km	Rs. 15.009 Lacs
4	Total Length of road under Project	12.975 Kms
5	Total earning on account of project	Rs. 194.75 Lacs

A

B) Reduction in vehicle operating cost

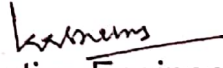
1	Total Length of road under Project	12.975 Kms
2	Total PCU	300
3	Conversation Factor Rs. 7/Km/PCU/Day	$\frac{7 \times 12.975 \times 300}{105}$
4	Income Generated out POC	Rs. 0.26 Lacs

B

C) Travel Time Saved

1	Proportional saving in travel time = 10% of population x time red x Km = $10/100 \times \text{population} \times 7/60 \times 365/8 \times \text{length of road} \times 0.65 \times 300 = .0007414 \times 748 \times 12.975$	Rs. 7.19 Lacs
2	Total benefits = A+B+C	Rs. 202.20 Lacs

C


Executive Engineer
PMGSY Division
Billawar

REVISED RECOMMENDATION

The undersigned had earlier recommended that the forest clearance of PMGSY road Malhar to Marhoon Part-I must be reviewed in light of the following points:

1. The irreparable loss of pristine Deodar Forest in Co. 26a/Blr
2. The Fragmentation of Wildlife Habitat
3. Disturbance to hydrology of the area
4. Fragile Soil Profile
5. Improved connectivity via the newly constructed PWD Road in the area and the need for avoidance of construction of the proposed PMGSY road beyond village Malad

Now, since the User Agency has reviewed the case in light of the points mentioned above and have, accordingly, made the necessary corrections in the revised area calculation sheet and have restricted the construction of the said road only upto village Malad (i.e. upto RD 12/975) thereby reducing the forest area to be diverted from **8.328 Ha** to **6.938 Ha**. The review of the proposal has also ensured the avoidance of 354 mature Deodar trees along with the protection of the Wildlife Habitat from fragmentation in Chew Forest (Co. 26a/Blr). At the same time, the review has also saved the two important natural water sources of the area from destruction.

Therefore, in view of the original proposal having been revised by the User Agency and also keeping in view the larger public interest involved herein, the said road may be granted requisite approval under the provisions of the Forest Conservation Act, 1980.



Divisional Forest Officer
Billawar Forest Division
Billawar

Certificate for Suitability of Area for Compensatory Afforestation

The area proposed for compensatory afforestation on Degraded Forest Land in lieu of Forest Land being diverted under Forest Conservation Act, 1980 for construction of road from Malhar to Marhoon, has been selected in 01 (One) patch of degraded forest area falling in Forest Compartment No. 26a/Blr Bhalai of Billawar Range. The selected patch for carrying out compensatory afforestation is a degraded forest area with canopy density of 0.3. In order to reduce the biotic pressure as well as to improve the biodiversity along with forest cover, this patch is proposed for compensatory afforestation through Artificial Regeneration (AR) and allied activities with suitable local indigenous species like Oak (*Quercus incana*) and Deodar (*Cedrus deodara*) alongwith grass slips in line with the Working Plan prescriptions.



(Vivek Modi) SFS
Divisional Forest Officer
Billawar Forest Division
Billawar

UNDERTAKING

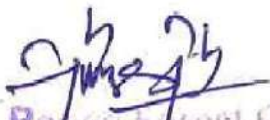
(UNQUALIFIED COMMITMENT FROM THE PROJECT OFFICIAL TO BEAR THE COST OF NET PRESENT VALUE

It is to state that Executive Engineer PMGSY Division Billawar who is the project authority hereby agree to defray the cost of Net Present Value (NPV) as per rule in force or as would be communicated by the Department of Forest, Environment and Wildlife Management, Government of Jammu and Kashmir for the diversion of 6.938 Ha forest land for non-forest use in the construction of road from Malhar to Marhoon (Part-I) under PMGSY.

Executive Engineer PMGSY Division Billawar hereby gives an additional undertaking to pay the amount of Differential NPV only in case of any upward revision of rates of NPV (as per report of the Expert Committee constituted by the Supreme Court).

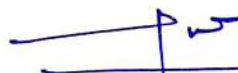


(Er. Kamal Kishore Sharma)
Executive Engineer
PMGSY Division
Billawar.



Range Forest Officer
Billawar Forest Range
Billawar

C/S



Divisional Forest Officer
Billawar Forest Division
Billawar

UNDERTAKING

(UNQUALIFIED COMMITMENT FROM THE PROJECT OFFICIAL TO BEAR THE COST OF EXPLOITATION AND THE COST OF COMPENSATORY AFFORESTATION)

It is to state that Executive Engineer PMGSY Division Billawar is hereby agree to defray the cost of exploitation if any and Compensatory Afforestation as would be communicated by the Department of Forest, Environment and Wildlife Management, Government of Jammu and Kashmir for the diversion of 6.938 Ha forest land for non-forest use in the construction of road from Malhar to Marhoon (Part-I).


(Er. Kamal Kishore Sharma)
Executive Engineer
PMGSY Division
Billawar.


Range Forest Officer:
Billawar Forest Range
Billawar.

CS

Divisional Forest Officer
Billawar Forest Division
Billawar

Full Title of the Project: MALHAR TO MARHOON (PART-I)

File No. FP/JK/ROAD/47637/2020

Date of Proposal:- 30-07-2020

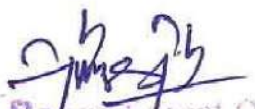
UNDERTAKING FOR PAYMENT OF ADDITIONAL NET PRESENT VALUE OF FOREST AREA

It is to certify that I Executive Engineer PMGSY Division, Billawar have applied for diversion of 6.938 ha of forest area for the purpose of Construction of road from Malhar to Marhoon (Part-I). I/We hereby undertake to pay the amount of additional Net Present Value (NPV) of the above forest land, if so determined as per the decision of the Hon'ble Supreme Court.

Place: Billawar
Date: 16.04.2021


Signature of the User Agency

Office Seal
Executive Engineer
PMGSY Division
Billawar


Range Forest Officer
Billawar Forest Range
Billawar

Counter signed by


Divisional Forest Officer
Billawar Forest Division
Billawar

Area Calculation Sheet

Calculation of area (length and width) of Forest Land required for the Construction of road from Malhar to Marhoon Part-1 in respect of PMGSY Sub-Division Billawar, Division Billawar.

S.No	Description of Items	Area
1	Total Length of Road	12.975 Kms
2	Length of road in Private/revenue Land	 kms
3	Length of road in Forest Land	9730 Mtr's
4	Width of proposed road	6 Mtr's
5	Area of Forest Land involved in road	9730 x 6.00 = 58380 Sq.m Or 5.838 Hectares.

Calculation of Forest area required for Dumping Sites

- | | |
|------------------------------|----------|
| 1) Area of Dumping Site I | = 0.1 Ha |
| 2) Area of Dumping Site II | = 0.1 Ha |
| 3) Area of Dumping Site III | = 0.1 Ha |
| 4) Area of Dumping Site IV | = 0.1 Ha |
| 5) Area of Dumping Site V | = 0.1 Ha |
| 6) Area of Dumping Site VI | = 0.1 Ha |
| 7) Area of Dumping Site VII | = 0.1 Ha |
| 8) Area of Dumping Site VIII | = 0.1 Ha |
| 9) Area of Dumping Site IX | = 0.1 Ha |
| 10) Area of Dumping Site X | = 0.1 Ha |
| 11) Area of Dumping Site XI | = 0.1 Ha |

Total = **1.1 Ha**

Total Area of Forest Land proposed for Diversion

- | | |
|------------------------------|-------------------|
| 1) Area under Road | = 5.838 Hectares. |
| 2) Area under Dumping Site I | = 0.1 Ha |
| 3) Area of Dumping Site II | = 0.1 Ha |
| 4) Area of Dumping Site III | = 0.1 Ha |
| 5) Area of Dumping Site IV | = 0.1 Ha |
| 6) Area of Dumping Site V | = 0.1 Ha |
| 7) Area of Dumping Site VI | = 0.1 Ha |
| 8) Area of Dumping Site VII | = 0.1 Ha |
| 9) Area of Dumping Site VIII | = 0.1 Ha |
| 10) Area of Dumping Site IX | = 0.1 Ha |
| 11) Area of Dumping Site X | = 0.1 Ha |
| 12) Area of Dumping Site XI | = 0.1 Ha |

Total = **6.938 Ha**

Total Forest area required Including Dumping sites = 6.938 Hectares.


Divisional Forest Officer
Billawar Forest Division
Billawar


Range Forest Officer
Billawar Forest Range
Billawar

B. K. Singh
I/c 1st Div
1/c Malhar Beat

Revised calculation sheet for the construction of road from malhar to Marhoon Part- 1.

a) Revised Length of road= 12.975 KMS

b) Forest Area Details.

S.no	Component	Length (m)	width (m)	Area (sqm)
1	0/0 to 0/125	125	6	750
2	0/775 to 1/075	300	6	1800
3	1/235 to 2/325	1090	6	6540
4	3/700 to 5/125	1425	6	8550
5	5/825 to 7/425	1600	6	9600
6	7/785 to 10/100	2315	6	13890
7	10/100 to 11/750	1650	6	9900
8	11/750 to 12/975	1225	6	7350
				58380

Deemed Forest

Forest area involved in the road = 58380 Sqm or 5.838Ha.

c) Muck dumping area detail

S No.	Particulars	Length (m)	width (m)	Area (sqm)
1	Dumping point 0/775 to 0/815	40	25	1000
2	Dumping point 1/235 to 1/275	40	25	1000
3	Dumping point 1/945 to 1/985	40	25	1000
4	Dumping point 4/100 to 4/140	40	25	1000
5	Dumping point 4/700 to 4/740	40	25	1000
6	Dumping point 6/585 to 6/625	40	25	1000
7	Dumping point 7/935 to 7/975	40	25	1000
8	Dumping point 8/875 to 8/915	40	25	1000
9	Dumping point 9/650 to 9/690	40	25	1000
10	Dumping point 10/500 to 10/540	40	25	1000
11	Dumping point 12/450 to 12/490	40	25	1000
				11000

Forest area involved in dumping site = 11000sqm or 1.10 Ha.

d) Total Revised Forest area involved in the project = 5.838 + 1.10 = 6.938 Ha, As required by Additional PCCF Nodal officer (FCA) letter no PCCF/FCA/3288/4928-31 dated 10-03-2021 and Chief Engineer PMGSY Jammu Communication no CEJ/PMGSY/21490-92 dated 10-03-2021,

e) Non forest area involved in the project= 3.245 Ha.

f) Total revised Project area = 10.183 Ha.

Kasame
Executive Engineer
PMGSY Division
Billawar

[Signature]
Range Forest Officer
Billawar Forest Range
Billawar

[Signature]
Divisional Forest Officer
Billawar Forest Division
Billawar

Detailed Estimate for Extraction of Timber/Firewood from the Trees coming in the Construction of road from Malhar to Marhoon Part-1 Under PMGSY passing through Co.25a & 25b of Billawar Forest Range in Billawar Forest Division

S.No.	Particulars	Quantity (in Cft)	Rate (Rs.)	Amount (Rs.)
1	Marking of trees including cleaning the periphery of each tree.	1007 No's	7.50/tree	0.08
2	Felling of Nos. Of trees and poles having standing volume.	-	3.37/cft	-
3	Hand sawing standard size i.e 50% of standing volume	-	51.04/cft	-
4	Staking at loading Place.	-	0.78/cft	-
5	Loading charges at loading place.	-	1.46/cft	-
6	Unloading at Central Depot Dewal.	-	1.46/cft	-
7	Stacking at Central Depot Dewal.	-	0.78/cft	-
8	Mechanical transportation of timber from forest to Central depot at Dewal in..... trips.	-	7000/trip	-
9	Extraction of firewood from lops and tops of B/L trees including loading, unloading and stacking at Dewal.	7547 Qtl	139/Qtls.	10.49
10	Mechanical transportation of Fire wood from Forest to Central depot Dewal at LMR through load carrier in 84 trips.	7547 Qtl or 84 Trip	7000/trip	5.88
11	Miscellaneous charges:- It includes provision for purchase of stock articles, labour welfare, implements, watch and ward and other uniform charges for extraction of timber as well as Firewood (i) Timber	-	30/Cft	-
	(ii) Firewood	7547 Qtl	L.S	0.75
	(iii) Watch and ward	4 Months	6750/Month	0.27
Total				17.47

Round off = 17.47 lakhs (Rupees Seventeen Lakhs Forty-Seven Thousand only)

(Signature)
T/O Bhu

(Signature)
T/O Malhar Bep

(Signature)
Range Forest Officer
Billawar Forest Range
Billawar

(Signature)
Divisional Forest Officer
Billawar Forest Division
Billawar

MUCK DISPOSAL PLAN

NAME OF THE PROPOSAL : CONSTRUCTION OF ROAD FROM MALHAR TO MARHOON (PART-I).

Proposal No:- FP/JK/ROAD/47637/2020

Date of Proposal:- 30-07-2020

DETAIL OF MUCK/DEBRIS TO BE PRODUCED

S No	Description of Item	Quantity (cum)
1	Total Quantity of muck to be produced from forest land during construction	87570
2	To be used for soling of road, wearing of road and filling behind retaining walls of road (30% soil)	26271
3	To be used locally for construction of road (30% stone)	26271
4	Total Quantity to be used (2+3)	52542
5	Net Quantity to be dumped (1-4)	35028
6	Swell Factor 20%	7006
7	Total Quantity to be dumped (5+6)	42034

STATEMENT SHOWING DETAIL OF PLACES FOR DISPOSAL OF
MUCK/DEBRIS DUE TO CONSTRUCTION OF ROAD FROM MALHAR TO
MARHOON (PART-I)

S No	Location of Dumping Place	Length, Width of Dumping Place (Area in sqm)	Height of Dump Expected (m)	Quantity of Muck that can be Disposed (cum)
(1)	(2)	(3)	(4)	(5) = (3) x (4)
1	0/775	40 X 25 = 1000	3	2314
2	1/235	40 X 25 = 1000	3	2568
3	1/945	40 X 25 = 1000	4	2400
4	4/100	40 X 25 = 1000	4	3000
5	4/700	40 X 25 = 1000	4	2940
6	6/585	40 X 25 = 1000	6	6156
7	7/935	40 X 25 = 1000	2	2640
8	8/875	40 X 25 = 1000	3	3000
9	9/650	40 X 25 = 1000	6	7344
10	10/500	40 X 25 = 1000	6	2760
11	12/450	40 X 25 = 1000	6	6912
Total				42034

S No	RD		Distance in mtr			Width of Right of Way (m)	Area of Road		Total Area of Forest Land (Ha)	Name of Village	Qty of Muck to be produced	Qty of Muck to be utilized locally	Swelling Factor	Qty of Muck to be dumped in dumping places
	From	To	Forest Land (m)	Non Forest Land (m)	Total (m)		Forest Land (sqm)	Non Forest Land (sqm)						
1	0	125	125	0	125	6	750	0	6938	Malhar	87570	52552	1.2	42034
2	775	1075	300	0	300	6	1800	0						
3	1235	2325	1090	0	1090	6	6540	0						
4	3700	5125	1425	0	1425	6	8550	0						
5	5825	7425	1600	0	1600	6	9600	0						
6	7785	10100	2315	0	2315	6	13890	0						
7	10100	11750	1650	0	1650	6	9900	0						
8	11750	12575	1225	0	1225	6	7350	0						
9	Dumping Site 1		40	0	40	25	1000	0						
10	Dumping Site 2		40	0	40	25	1000	0						
11	Dumping Site 3		40	0	40	25	1000	0						
12	Dumping Site 4		40	0	40	25	1000	0						
13	Dumping Site 5		40	0	40	25	1000	0						
14	Dumping Site 6		40	0	40	25	1000	0						
15	Dumping Site 7		40	0	40	25	1000	0						
16	Dumping Site 8		40	0	40	25	1000	0						
17	Dumping Site 9		40	0	40	25	1000	0						
18	Dumping Site 10		40	0	40	25	1000	0						
19	Dumping Site 11		40	0	40	25	1000	0						
	Total						69380	0						

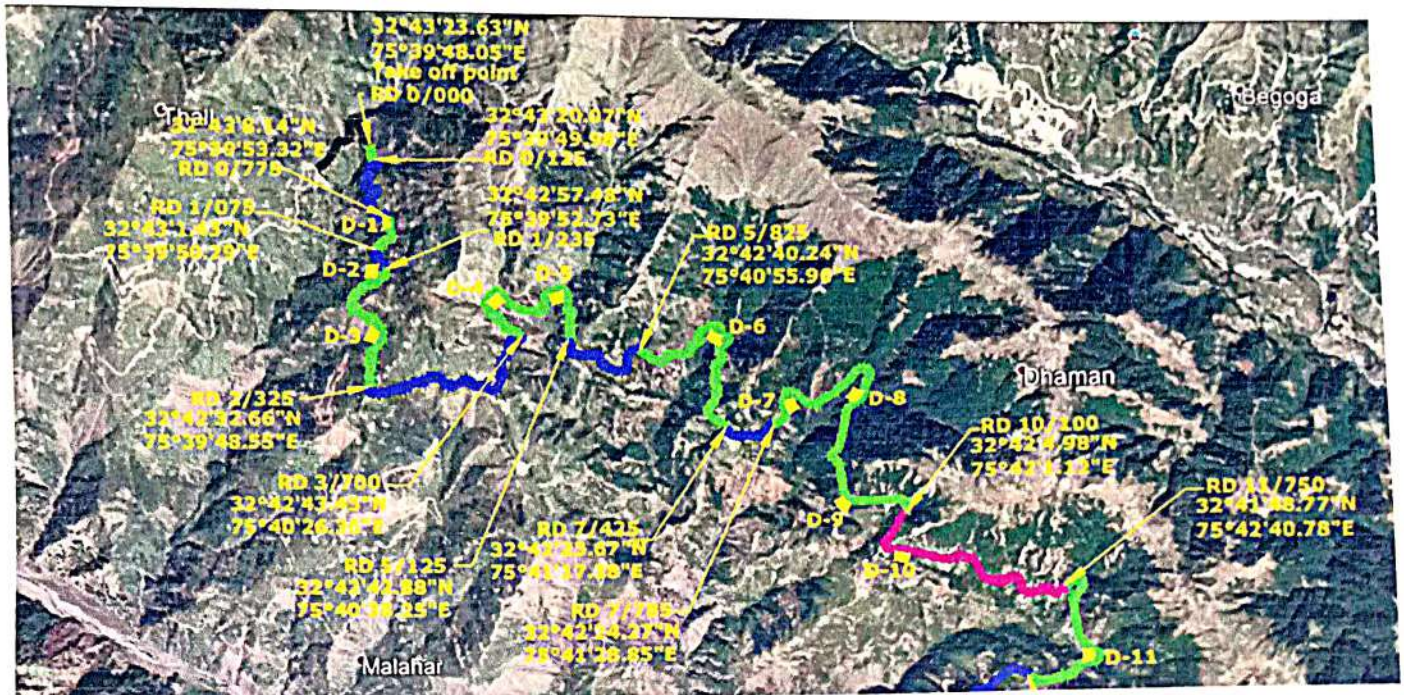
STATEMENT SHOWING COMPLETE DETAILS FOR THE CONSTRUCTION OF ROAD FROM MALHAR TO MARHOON (PART-I)

STATEMENT SHOWING COMPLETE DETAILS FOR THE CONSTRUCTION OF ROAD FROM MALHAR TO MARHOON (PART-I)														
S.No	RD		Distance in mtr			Width of Right of Way (m)	Area of Road		Total Area of Forest Land (Ha)	Name of Village	Qty of Muck to be produced	Qty of Muck to be utilized locally	Swelling Factor	Qty of Muck to be dumped in dumping places
	From	To	Forest Land (m)	Non Forest Land (m)	Total (m)		Forest Land (sqm)	Non Forest Land (sqm)						
1	0	125	125	0	125	6	750	0	6.938	Malhar	87570	52542	1.2	42034
2	775	1075	300	0	300	6	1800	0						
3	1235	2325	1090	0	1090	6	6540	0						
4	3700	5125	1425	0	1425	6	8550	0						
5	5825	7425	1600	0	1600	6	9600	0						
6	7785	10100	2315	0	2315	6	13890	0						
7	10100	11750	1650	0	1650	6	9900	0						
8	11750	12975	1225	0	1225	6	7350	0						
9	Dumping Site 1		40	0	40	25	1000	0						
10	Dumping Site 2		40	0	40	25	1000	0						
11	Dumping Site 3		40	0	40	25	1000	0						
12	Dumping Site 4		40	0	40	25	1000	0						
13	Dumping Site 5		40	0	40	25	1000	0						
14	Dumping Site 6		40	0	40	25	1000	0						
15	Dumping Site 7		40	0	40	25	1000	0						
16	Dumping Site 8		40	0	40	25	1000	0						
17	Dumping Site 9		40	0	40	25	1000	0						
18	Dumping Site 10		40	0	40	25	1000	0						
19	Dumping Site 11		40	0	40	25	1000	0						
Total					40	25	69380	0						

**STATEMENT SHOWING DUMPING QUANTITY OF MUCK/DEBRIS TO BE
DUMPED WITH OTHER DETAIL FOR PROJECT CONSTRUCTION OF
ROAD FROM MALHAR TO MARHOON (PART-I)**

1	S No	Name of Component from Muck / Debris is to be produced	Total Qty. of Muck/Debris to be produced (cum)	Qty. of Muck/Debris to be utilized locally (cum)	Qty. of Muck/ Debris to be dumped (cum)	Factor of increase in volume for dumping	Qty. of Muck/ Debris to be dumped on the basis of increase(cum)	Name of Dumping Places	Slope of Dumping Place	Location of Dumping Place	Distance of Dumping Place from River	Area of Dumping Place (Ha)	Area of forest land involved in Dumping Place	Height of Muck Dump Expected	Remarks
1		Formation cutting work of forest land	87570	52542	35028	1.20	42034	Dumping Site-1 TO 11	-	0/775 1/235 1/945 4/100 4/700 6/585 7/935 8/875 9/650 10/50 0 12/45 0	-	1.10	Nil	5 mtr Avg	

LAYOUT PLAN OF MUCK DUMPING SITES



IMPLEMENTATION OF ENGINEERING MEASURES AT MUCK

DUMPING SITES:

It has been observed that after disposal of muck, it creates problem as it is susceptible to scattering unless the muck disposal yards are supported with engineering measures such as protective walls. All the dumping sites need proper handling to avoid spilling of muck while dumping and in the post dumping stages. All the muck disposal sites have to be developed from the ground level either by providing stone masonry or by gabion structure. Gabion Walls will be provided to support disposed muck. In all the muck dumping sites, the muck brought in by dumpers shall be dumped and manually spread and roller compacted in such a way that rock mass is properly stacked behind the Gabbions with minimum of voids.

Budget for Muck Disposal Plan :

An estimation has been made for Engineering measures of Muck disposal Plan at Rs 29.81 Lacs. Proposed Gabbion Drawing (copy enclosed)

Model Plan related to Engineering Measures for Stabilization of Muck Disposal sites in Forest area.

Typical estimate for Construction of Gabbion/Crated Wall to protect dumping sites of surplus Muck/Excavated Material in forest Area as per Engineering Measures.

Taking length of Crated wall = 40M.

Earthwork in excavation for structures = $1 \times 40 \times 1.40 \times 0.6$
= 33.60Cum @Rs 363/Cum
= Rs. 12,196/-

For two layered crated wall,

Quantity = $2 \times 7 \times 6 \times 1.2 \times 1.20 = 120.96$ Cum
Amount = 120.96 Cum @Rs 2140/Cum (including cost of
Crates and labour for handling of available stones)
= Rs 2,58,854/-

Total Amount for 40 mts two layered crated wall = Rs 2,71,050/-

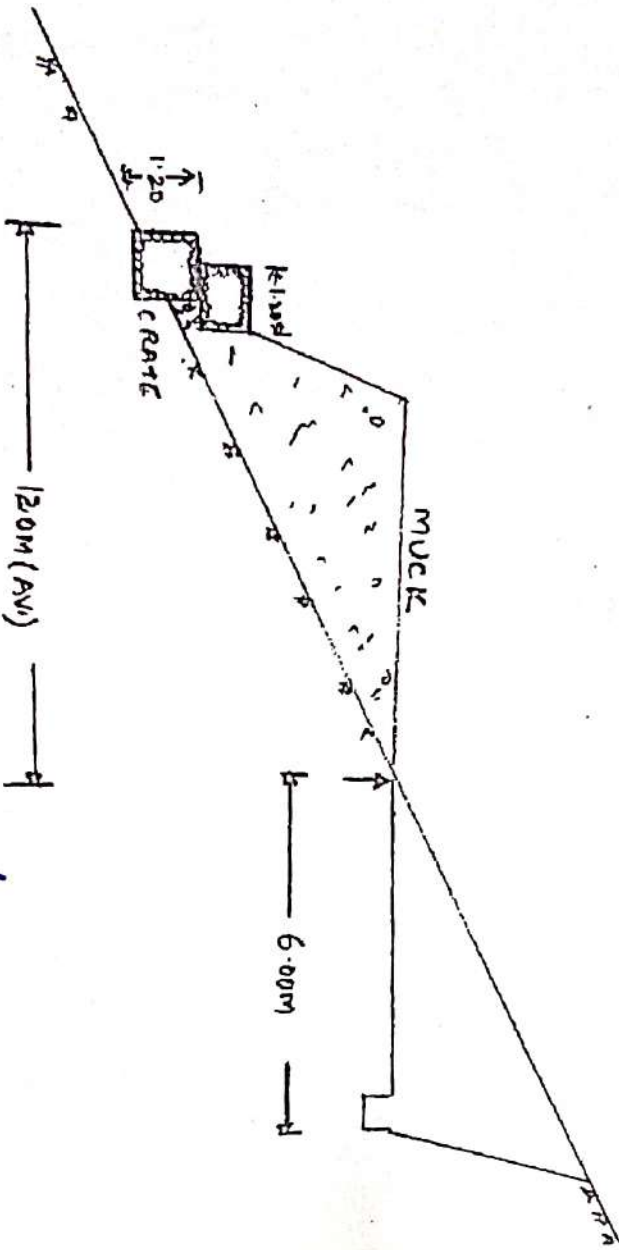
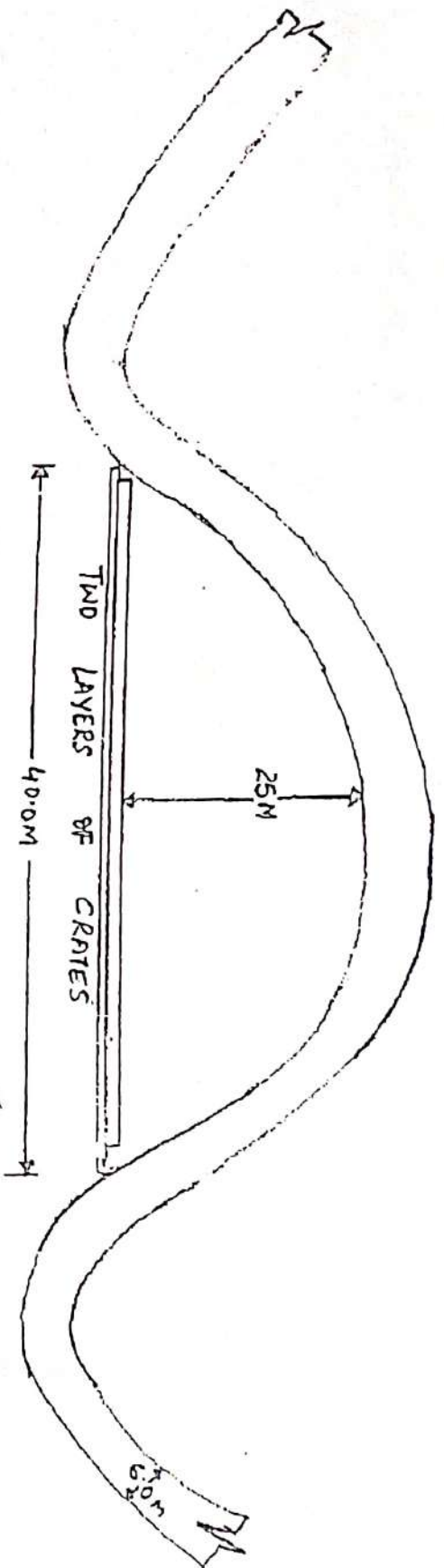
Total amount for 3 dumping sites = $11 \times 2,71,050/-$
= Rs. 29,81,550/-

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PSE

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Executive Engineer
PMGSY Division
Billawar

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C/S

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Divisional Forest Officer
Billawar Forest Division
Billawar



TYPICAL SITE PLAN AND
X-SECTION FOR STABILIZATION
OF MUCK / SURPLUS EXCAVATED
IN FOREST AREA.

Divisional Forest Officer
Bilawar Forest Division
Bilawar

Signature
RBE

Signature
Executive Engineer
PUGSY Division
Bilawar

Enumeration list of trees coming in the road alignment from Malhar to Marhoon Part-1 under PMGSY in Co.25a & 25b of Billawar Forest Range of Billawar Forest Division

Sr.No	Local Name	Scientific Name	Girth (in ft-inch)	Girth (in Ft)	Girth (in cm)	Girth-Class (in cm)	Remarks
1	Banj	<i>Quercus Incana</i>	4'-12"	5	152.4	above 150	
2	Banj	<i>Quercus Incana</i>	3'-9"	3.75	153	above 150	
3	Banj	<i>Quercus Incana</i>	2'-10"	2.833333333	86.36	61-90	
4	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
5	Banj	<i>Quercus Incana</i>	2'-11"	2.916666667	88.9	61-90	
6	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
7	Singla		3'-7"	3.583333333	109.22	91-120	
8	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
9	Banj	<i>Quercus Incana</i>	3'-10"	3.833333333	116.84	91-120	
10	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
11	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
12	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
13	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
14	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
15	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
16	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
17	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
18	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
19	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
20	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
21	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
22	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
23	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
24	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
25	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
26	Alan	<i>Lyonca nalifolia</i>	3'-1"	3.083333333	93.98	91-120	
27	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
28	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
29	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
30	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
31	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
32	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
33	Alan	<i>Lyonca nalifolia</i>	2'-5"	2.416666667	73.66	61-90	
34	Alan	<i>Lyonca nalifolia</i>	2'-8"	2.666666667	81.28	61-90	
35	Alan	<i>Lyonca nalifolia</i>	3'-0"	3	91.44	91-120	
36	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
37	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
38	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
39	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
40	Banj	<i>Quercus Incana</i>	2'-4"	2.333333333	71.12	61-90	
41	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
42	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
43	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
44	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
45	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
46	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
47	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
48	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
49	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
50	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
51	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
52	Chew	<i>Rhododendron arboreum</i>	2'-4"	2.333333333	71.12	61-90	
53	Chew	<i>Rhododendron arboreum</i>	2'-4"	2.333333333	71.12	61-90	
54	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
55	Chew	<i>Rhododendron arboreum</i>	4'-4"	4.333333333	132.08	121-150	
56	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
57	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
58	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
59	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
60	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
61	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
62	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
63	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
64	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
65	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	

66	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
67	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
68	Banj	<i>Quercus Incana</i>	2'-4"	2.333333333	71.12	61-90	
69	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
70	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
71	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
72	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
73	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
74	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
75	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
76	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
77	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
78	Banj	<i>Quercus Incana</i>	2'-4"	2.333333333	71.12	61-90	
79	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
80	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
81	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
82	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
83	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
84	Chew	<i>Rhododendron arboreum</i>	2'-10"	2.833333333	86.36	61-90	
85	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
86	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
87	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
88	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
89	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
90	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
91	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
92	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
93	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
94	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
95	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
96	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
97	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
98	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
99	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
100	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
101	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
102	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
103	Banj	<i>Quercus Incana</i>	2'-0"	2	60.96	61-90	
104	Alan	<i>Lyonca nalifolia</i>	2'-6"	2.5	76.2	61-90	
105	Banj	<i>Quercus Incana</i>	2'-0"	2	60.96	61-90	
106	Chew	<i>Rhododendron arboreum</i>	2'-4"	2.333333333	71.12	61-90	
107	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
108	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
109	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
110	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
111	Banj	<i>Quercus Incana</i>	7'-1"	7.083333333	215.9	above 150	
112	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
113	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
114	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
115	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
116	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
117	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
118	Alan	<i>Lyonca nalifolia</i>	3'-0"	3	91.44	91-120	
119	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
120	Chew	<i>Rhododendron arboreum</i>	2'-5"	2.416666667	73.66	61-90	
121	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
122	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
123	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
124	Alan	<i>Lyonca nalifolia</i>	3'-2"	3.166666667	96.52	91-120	
125	Chew	<i>Rhododendron arboreum</i>	3'-9"	3.75	114.3	91-120	
126	Singla		3'-4"	3.333333333	101.6	91-120	
127	Singla		4'-0"	4	121.92	121-150	
128	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
129	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
130	Singla		4'-0"	4	121.92	121-150	
131	Banj	<i>Quercus Incana</i>	4'-8"	4.666666667	142.24	121-150	
132	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
133	Singla		3'-0"	3	91.44	91-120	
134	Singla		2'-0"	2	60.96	61-90	
135	Singla		3'-0"	3	91.44	91-120	
136	Singla		2'-0"	2	60.96	61-90	

137	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
138	Banj	<i>Quercus Incana</i>	7'-0"	7	213.36	above 150	
139	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
140	Alan	<i>Lyonca nalifolia</i>	3'-4"	3.333333333	101.6	91-120	
141	Alan	<i>Lyonca nalifolia</i>	3'-10"	3.833333333	116.84	91-120	
142	Chew	<i>Rhododendron arboreum</i>	5'-0"	5	152.4	above 150	
143	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
144	Chew	<i>Rhododendron arboreum</i>	2'-11"	2.916666667	88.9	61-90	
145	Chew	<i>Rhododendron arboreum</i>	2'-11"	2.916666667	88.9	61-90	
146	Alan	<i>Lyonca nalifolia</i>	3'-0"	3	91.44	91-120	
147	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
148	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
149	Singla		3'-0"	3	91.44	91-120	
150	Chew	<i>Rhododendron arboreum</i>	2'-4"	2.333333333	71.12	61-90	
151	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
152	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
153	Singla		3'-6"	3.5	106.68	91-120	
154	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
155	Chew	<i>Rhododendron arboreum</i>	2'-6"	2.5	76.2	61-90	
156	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
157	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
158	Singla		3'-2"	3.166666667	96.52	91-120	
159	Singla		2'-0"	2	60.96	61-90	
160	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
161	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
162	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
163	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
164	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
165	Alan	<i>Lyonca nalifolia</i>	2'-2"	2.166666667	66.04	61-90	
166	Singla		2'-8"	2.666666667	81.28	61-90	
167	Singla		2'-6"	2.5	76.2	61-90	
168	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
169	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
170	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
171	Chew	<i>Rhododendron arboreum</i>	2'-3"	2.25	68.58	61-90	
172	Chew	<i>Rhododendron arboreum</i>	2'-0"	2	60.96	61-90	
173	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
174	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
175	Singla		2'-2"	2.166666667	66.04	61-90	
176	Singla		3'-0"	3	91.44	91-120	
177	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
178	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
179	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
180	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
181	Singla		3'-2"	3.166666667	96.52	91-120	
182	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
183	Chew	<i>Rhododendron arboreum</i>	3'-3"	3.25	99.06	91-120	
184	Alan	<i>Lyonca nalifolia</i>	2'-0"	2	60.96	61-90	
185	Alan	<i>Lyonca nalifolia</i>	3'-3"	3.25	99.06	91-120	
186	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
187	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
188	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
189	Singla		2'-2"	2.166666667	66.04	61-90	
190	Singla		3'-1"	3.083333333	93.98	91-120	
191	Alan	<i>Lyonca nalifolia</i>	3'-3"	3.25	99.06	91-120	
192	Alan	<i>Lyonca nalifolia</i>	2'-3"	2.25	68.58	61-90	
193	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
194	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
195	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
196	Singla		2'-2"	2.166666667	66.04	61-90	
197	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
198	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
199	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
200	Singla		3'-0"	3	91.44	91-120	
201	Singla		2'-2"	2.166666667	66.04	61-90	
202	Singla		2'-5"	2.416666667	73.66	61-90	
203	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
204	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
205	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
206	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
207	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	

208	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
209	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
210	Chew	<i>Rhododendron arboreum</i>	2'-1"	2.083333333	63.5	61-90	
211	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
212	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
213	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
214	Alan	<i>Lyonca nalifolia</i>	2'-1"	2.083333333	63.5	61-90	
215	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
216	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
217	Singla		3'-0"	3	91.44	91-120	
218	Singla		2'-8"	2.666666667	81.28	61-90	
219	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
220	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
221	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
222	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
223	Alan	<i>Lyonca nalifolia</i>	3'-0"	3	91.44	91-120	
224	Alan	<i>Lyonca nalifolia</i>	2'-8"	2.666666667	81.28	61-90	
225	Alan	<i>Lyonca nalifolia</i>	3'-0"	3	91.44	91-120	
226	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
227	Banj	<i>Quercus Incana</i>	8'-0"	8	243.84	above 150	
228	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
229	Singla		2'-2"	2.166666667	66.04	61-90	
230	Singla		3'-8"	3.666666667	111.76	91-120	
231	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
232	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
233	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
234	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
235	Singla		3'-8"	3.666666667	111.76	91-120	
236	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
237	Singla		2'-7"	2.583333333	78.74	61-90	
238	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
239	Singla		2'-2"	2.166666667	66.04	61-90	
240	Singla		2'-1"	2.083333333	63.5	61-90	
241	Singla		3'-0"	3	91.44	91-120	
242	Singla		2'-0"	2	60.96	61-90	
243	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
244	Singla		3'-0"	3	91.44	91-120	
245	Banj	<i>Quercus Incana</i>	4'-8"	4.666666667	142.24	121-150	
246	Singla		3'-0"	3	91.44	91-120	
247	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
248	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
249	Alan	<i>Lyonca nalifolia</i>	3'-0"	3	91.44	91-120	
250	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
251	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
252	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
253	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
254	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
255	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
256	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
257	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
258	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
259	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
260	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
261	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
262	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
263	Singla		2'-0"	2	60.96	61-90	
264	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
265	Singla		2'-1"	2.083333333	63.5	61-90	
266	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
267	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
268	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
269	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
270	Alan	<i>Lyonca nalifolia</i>	3'-2"	3.166666667	96.52	91-120	
271	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
272	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
273	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
274	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
275	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
276	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
277	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
278	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	

279	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
280	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
281	Alan	<i>Lyonca nalifolia</i>	4'-0"	4	121.92	121-150	
282	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
283	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
284	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
285	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
286	Alan	<i>Lyonca nalifolia</i>	2'-1"	2.083333333	63.5	61-90	
287	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
288	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
289	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
290	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
291	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
292	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
293	Chew	<i>Rhododendron arboreum</i>	3'-1"	3.083333333	93.98	91-120	
294	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
295	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
296	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
297	Chew	<i>Rhododendron arboreum</i>	2'-1"	2.083333333	63.5	61-90	
298	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
299	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
300	Alan	<i>Lyonca nalifolia</i>	2'-8"	2.666666667	81.28	61-90	
301	Chew	<i>Rhododendron arboreum</i>	2'-6"	2.5	76.2	61-90	
302	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
303	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
304	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
305	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
306	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
307	Alan	<i>Lyonca nalifolia</i>	3'-0"	3	91.44	91-120	
308	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
309	Chew	<i>Rhododendron arboreum</i>	2'-1"	2.083333333	63.5	61-90	
310	Alan	<i>Lyonca nalifolia</i>	3'-2"	3.166666667	96.52	91-120	
311	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
312	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
313	Chew	<i>Rhododendron arboreum</i>	2'-1"	2.083333333	63.5	61-90	
314	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
315	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
316	Chew	<i>Rhododendron arboreum</i>	2'-0"	2	60.96	61-90	
317	Chew	<i>Rhododendron arboreum</i>	2'-7"	2.583333333	78.74	61-90	
318	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
319	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
320	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
321	Chew	<i>Rhododendron arboreum</i>	2'-1"	2.083333333	63.5	61-90	
322	Chew	<i>Rhododendron arboreum</i>	2'-0"	2	60.96	61-90	
323	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
324	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
325	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
326	Chew	<i>Rhododendron arboreum</i>	2'-0"	2	60.96	61-90	
327	Alan	<i>Lyonca nalifolia</i>	2'-1"	2.083333333	63.5	61-90	
328	Alan	<i>Lyonca nalifolia</i>	3'-2"	3.166666667	96.52	91-120	
329	Chew	<i>Rhododendron arboreum</i>	2'-0"	2	60.96	61-90	
330	Chew	<i>Rhododendron arboreum</i>	2'-1"	2.083333333	63.5	61-90	
331	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
332	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
333	Chew	<i>Rhododendron arboreum</i>	2'-0"	2	60.96	61-90	
334	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
335	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
336	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
337	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
338	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
339	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
340	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
341	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
342	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
343	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
344	Kainth	<i>Pyrus paschia</i>	4'-0"	4	121.92	121-150	
345	Banj	<i>Quercus Incana</i>	4'-5"	4.416666667	134.62	121-150	
346	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
347	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
348	Banj	<i>Quercus Incana</i>	3'-2'	3.166666667	96.52	91-120	
349	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	

350	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
351	Chew	<i>Rhododendron arboreum</i>	5'-0"	5	152.4	above 150	
352	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
353	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
354	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
355	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
356	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
357	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
358	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
359	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
360	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
361	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
362	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
363	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
364	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
365	Banj	<i>Quercus Incana</i>	2'-0"	2	60.96	61-90	
366	Banj	<i>Quercus Incana</i>	2'-9"	2.75	83.82	61-90	
367	Banj	<i>Quercus Incana</i>	4'-0'	4	121.92	121-150	
368	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
369	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
370	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
371	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
372	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
373	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
374	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
375	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
376	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
377	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
378	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
379	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
380	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
381	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
382	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
383	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
384	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
385	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
386	Alan	<i>Lyonca nalifolia</i>	2'-2"	2.166666667	66.04	61-90	
387	Alan	<i>Lyonca nalifolia</i>	3'-2"	3.166666667	96.52	91-120	
388	Alan	<i>Lyonca nalifolia</i>	3'-1"	3.083333333	93.98	91-120	
389	Alan	<i>Lyonca nalifolia</i>	2'-2"	2.166666667	66.04	61-90	
390	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
391	Alan	<i>Lyonca nalifolia</i>	3'-8"	3.666666667	111.76	91-120	
392	Alan	<i>Lyonca nalifolia</i>	3'-10"	3.833333333	116.84	91-120	
393	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
394	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
395	Alan	<i>Lyonca nalifolia</i>	3'-1"	3.083333333	93.98	91-120	
396	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
397	Chew	<i>Rhododendron arboreum</i>	5'-0"	5	152.4	above 150	
398	Alan	<i>Lyonca nalifolia</i>	4'-0"	4	121.92	121-150	
399	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
400	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
401	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
402	Banj	<i>Quercus Incana</i>	4'-2'	4.166666667	127	121-150	
403	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
404	Banj	<i>Quercus Incana</i>	3'-5"	3.416666667	104.14	91-120	
405	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
406	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
407	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
408	Banj	<i>Quercus Incana</i>	3'-5"	3.416666667	104.14	91-120	
409	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
410	Banj	<i>Quercus Incana</i>	3'-5"	3.416666667	104.14	91-120	
411	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
412	Chew	<i>Rhododendron arboreum</i>	5'-3"	5.25	160.02	above 150	
413	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
414	Chew	<i>Rhododendron arboreum</i>	3'-6"	3.5	106.68	91-120	
415	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
416	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
417	Banj	<i>Quercus Incana</i>	5'-4"	5.333333333	162.56	above 150	
418	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
419	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
420	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	

421	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
422	Alan	<i>Lyonca nalifolia</i>	3'-2"	3.166666667	96.52	91-120	
423	Alan	<i>Lyonca nalifolia</i>	2'-7"	2.583333333	78.74	61-90	
424	Singla		2'-11"	2.916666667	88.9	61-90	
425	Alan	<i>Lyonca nalifolia</i>	3'-4"	3.333333333	101.6	91-120	
426	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
427	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
428	Banj	<i>Quercus Incana</i>	5'-9"	5.75	175.26	above 150	
429	Banj	<i>Quercus Incana</i>	5'-4"	5.333333333	162.56	above 150	
430	Banj	<i>Quercus Incana</i>	4'-4"	4.333333333	132.08	121-150	
431	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
432	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
433	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
434	Banj	<i>Quercus Incana</i>	3'-5"	3.416666667	104.14	91-120	
435	Banj	<i>Quercus Incana</i>	4'-8"	4.666666667	142.24	121-150	
436	Banj	<i>Quercus Incana</i>	5'-6"	5.5	167.64	above 150	
437	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
438	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
439	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
440	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
441	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
442	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
443	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
444	Banj	<i>Quercus Incana</i>	5'-4"	5.333333333	162.56	above 150	
445	Chew	<i>Rhododendron arboreum</i>	3'-7"	3.583333333	109.22	91-120	
446	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
447	Banj	<i>Quercus Incana</i>	5'-6"	5.5	167.64	above 150	
448	Alan	<i>Lyonca nalifolia</i>	3'-7"	3.583333333	109.22	91-120	
449	Alan	<i>Lyonca nalifolia</i>	3'-3"	3.25	99.06	91-120	
450	Chew	<i>Rhododendron arboreum</i>	2'-8"	2.666666667	81.28	61-90	
451	Banj	<i>Quercus Incana</i>	4'-9"	4.75	144.78	121-150	
452	Chew	<i>Rhododendron arboreum</i>	3'-7"	3.583333333	109.22	91-120	
453	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
454	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
455	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
456	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
457	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
458	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
459	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
460	Banj	<i>Quercus Incana</i>	6'-1"	6.083333333	185.42	above 150	
461	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
462	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
463	Banj	<i>Quercus Incana</i>	5'-1"	5.083333333	154.94	above 150	
464	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
465	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
466	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
467	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
468	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
469	Banj	<i>Quercus Incana</i>	4'-8"	4.666666667	142.24	121-150	
470	Banj	<i>Quercus Incana</i>	6'-1"	6.083333333	185.42	above 150	
471	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
472	Chew	<i>Rhododendron arboreum</i>	2'-9"	2.75	83.82	61-90	
473	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
474	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
475	Banj	<i>Quercus Incana</i>	4'-8"	4.666666667	142.24	121-150	
476	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
477	Alan	<i>Lyonca nalifolia</i>	2'-4"	2.333333333	71.12	61-90	
478	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
479	Singla		3'-4"	3.333333333	101.6	91-120	
480	Singla		3'-2"	3.166666667	96.52	91-120	
481	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
482	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
483	Banj	<i>Quercus Incana</i>	5'-4"	5.333333333	162.56	above 150	
484	Banj	<i>Quercus Incana</i>	5'-1"	5.083333333	154.94	above 150	
485	Chew	<i>Rhododendron arboreum</i>	3'-5"	3.416666667	104.14	91-120	
486	Chew	<i>Rhododendron arboreum</i>	3'-3"	3.25	99.06	91-120	
487	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
488	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
489	Banj	<i>Quercus Incana</i>	5'-1"	5.083333333	154.94	above 150	
490	Chew	<i>Rhododendron arboreum</i>	3'-4"	3.333333333	101.6	91-120	
491	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	

492	Banj	<i>Quercus Incana</i>	6'-3"	6.25	190.5	above 150	
493	Banj	<i>Quercus Incana</i>	6'-1"	6.083333333	185.42	above 150	
494	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
495	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
496	Chew	<i>Rhododendron arboreum</i>	3'-3"	3.25	99.06	91-120	
497	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
498	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
499	Banj	<i>Quercus Incana</i>	6'-1"	6.083333333	185.42	above 150	
500	Chew	<i>Rhododendron arboreum</i>	3'-3"	3.25	99.06	91-120	
501	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
502	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
503	Banj	<i>Quercus Incana</i>	6'-2"	6.166666667	187.96	above 150	
504	Banj	<i>Quercus Incana</i>	6'-4"	6.333333333	193.04	above 150	
505	Banj	<i>Quercus Incana</i>	6'-3"	6.25	190.5	above 150	
506	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
507	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
508	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
509	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
510	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
511	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
512	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
513	Banj	<i>Quercus Incana</i>	5'-4"	5.333333333	162.56	above 150	
514	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
515	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
516	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
517	Chew	<i>Rhododendron arboreum</i>	3'-7"	3.583333333	109.22	91-120	
518	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
519	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
520	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
521	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
522	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
523	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
524	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
525	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
526	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
527	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
528	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
529	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
530	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
531	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
532	Banj	<i>Quercus Incana</i>	4'-8"	4.666666667	142.24	121-150	
533	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
534	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
535	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
536	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
537	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
538	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
539	Banj	<i>Quercus Incana</i>	2'-9"	2.75	83.82	61-90	
540	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
541	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
542	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
543	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
544	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
545	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
546	Chew	<i>Rhododendron arboreum</i>	3'-7"	3.583333333	109.22	91-120	
547	Chew	<i>Rhododendron arboreum</i>	4'-7"	4.583333333	139.7	121-150	
548	Chew	<i>Rhododendron arboreum</i>	3'-9"	3.75	114.3	91-120	
549	Banj	<i>Quercus Incana</i>	4'-4"	4.333333333	132.08	121-150	
550	Banj	<i>Quercus Incana</i>	5'-3"	5.25	160.02	above 150	
551	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
552	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
553	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
554	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
555	Banj	<i>Quercus Incana</i>	5'-7"	5.583333333	170.18	above 150	
556	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
557	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
558	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
559	Banj	<i>Quercus Incana</i>	4'-4"	4.333333333	132.08	121-150	
560	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
561	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
562	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	

563	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
564	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
565	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
566	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
567	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
568	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
569	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
570	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
571	Chew	<i>Rhododendron arboreum</i>	4'-9"	4.75	144.78	121-150	
572	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
573	Banj	<i>Quercus Incana</i>	4'-8"	4.666666667	142.24	121-150	
574	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
575	Banj	<i>Quercus Incana</i>	5'-3"	5.25	160.02	above 150	
576	Banj	<i>Quercus Incana</i>	4'-4"	4.333333333	132.08	121-150	
577	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
578	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
579	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
580	Banj	<i>Quercus Incana</i>	3'-6'	3.5	106.68	91-120	
581	Banj	<i>Quercus Incana</i>	5'-4"	5.333333333	162.56	above 150	
582	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
583	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
584	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
585	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
586	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
587	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
588	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
589	Banj	<i>Quercus Incana</i>	4'-5"	4.416666667	134.62	121-150	
590	Banj	<i>Quercus Incana</i>	4'-9"	4.75	144.78	121-150	
591	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
592	Banj	<i>Quercus Incana</i>	3'-7'	3.583333333	109.22	91-120	
593	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
594	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
595	Chew	<i>Rhododendron arboreum</i>	2'-7"	2.583333333	78.74	61-90	
596	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
597	Chew	<i>Rhododendron arboreum</i>	2'-3"	2.25	68.58	61-90	
598	Chew	<i>Rhododendron arboreum</i>	2'-9"	2.75	83.82	61-90	
599	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
600	Banj	<i>Quercus Incana</i>	3'-8'	3.666666667	111.76	91-120	
601	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
602	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
603	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
604	Banj	<i>Quercus Incana</i>	4'-3"	4.25	129.54	121-150	
605	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
606	Banj	<i>Quercus Incana</i>	5'-4"	5.333333333	162.56	above 150	
607	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
608	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
609	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
610	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
611	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
612	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
613	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
614	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
615	Banj	<i>Quercus Incana</i>	4'-5"	4.416666667	134.62	121-150	
616	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
617	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
618	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
619	Banj	<i>Quercus Incana</i>	3'-7'	3.583333333	109.22	91-120	
620	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
621	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
622	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
623	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
624	Alan	<i>Lyonca nalifolia</i>	2'-1"	2.083333333	63.5	61-90	
625	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
626	Banj	<i>Quercus Incana</i>	3'-5"	3.416666667	104.14	91-120	
627	Banj	<i>Quercus Incana</i>	4'-5"	4.416666667	134.62	121-150	
628	Banj	<i>Quercus Incana</i>	5'-0'	5	152.4	above 150	
629	Banj	<i>Quercus Incana</i>	5'-7"	5.583333333	170.18	above 150	
630	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
631	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
632	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
633	Banj	<i>Quercus Incana</i>	4'-5"	4.416666667	134.62	121-150	

634	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
635	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
636	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
637	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
638	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
639	Banj	<i>Quercus Incana</i>	6'-1"	6.083333333	185.42	above 150	
640	Banj	<i>Quercus Incana</i>	5'-1"	5.083333333	154.94	above 150	
641	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
642	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
643	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
644	Banj	<i>Quercus Incana</i>	5'-7"	5.583333333	170.18	above 150	
645	Banj	<i>Quercus Incana</i>	6'-1"	6.083333333	185.42	above 150	
646	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
647	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
648	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
649	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
650	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
651	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
652	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
653	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
654	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
655	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
656	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
657	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
658	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
659	Chew	<i>Rhododendron arboreum</i>	2'-3"	2.25	68.58	61-90	
660	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
661	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
662	Banj	<i>Quercus Incana</i>	5'-3"	5.25	160.02	above 150	
663	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
664	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
665	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
666	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
667	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
668	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
669	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
670	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
671	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
672	Banj	<i>Quercus Incana</i>	5'-1"	5.083333333	154.94	above 150	
673	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
674	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
675	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
676	Banj	<i>Quercus Incana</i>	4'-8"	4.666666667	142.24	121-150	
677	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
678	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
679	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
680	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
681	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
682	Banj	<i>Quercus Incana</i>	6'-2"	6.166666667	187.96	above 150	
683	Banj	<i>Quercus Incana</i>	3'-5"	3.416666667	104.14	91-120	
684	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
685	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
686	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
687	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
688	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
689	Alan	<i>Lyonca nalifolia</i>	2'-7"	2.583333333	78.74	61-90	
690	Banj	<i>Quercus Incana</i>	7'-0"	7	213.36	above 150	
691	Chew	<i>Rhododendron arboreum</i>	2'-8"	2.666666667	81.28	61-90	
692	Chew	<i>Rhododendron arboreum</i>	3'-6"	3.5	106.68	91-120	
693	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
694	Chew	<i>Rhododendron arboreum</i>	3'-6"	3.5	106.68	91-120	
695	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
696	Alan	<i>Lyonca nalifolia</i>	2'-10"	2.833333333	86.36	61-90	
697	Banj	<i>Quercus Incana</i>	7'-6"	7.5	228.6	above 150	
698	Banj	<i>Quercus Incana</i>	5'-7"	5.583333333	170.18	above 150	
699	Banj	<i>Quercus Incana</i>	6'-11"	6.916666667	210.82	above 150	
700	Alan	<i>Lyonca nalifolia</i>	3'-2"	3.166666667	96.52	91-120	
701	Chew	<i>Rhododendron arboreum</i>	2'-4"	2.333333333	71.12	61-90	
702	Chew	<i>Rhododendron arboreum</i>	2'-10"	2.833333333	86.36	61-90	
703	Chew	<i>Rhododendron arboreum</i>	2'-11"	2.916666667	88.9	61-90	
704	Alan	<i>Lyonca nalifolia</i>	2'-2"	2.166666667	66.04	61-90	

705	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
706	Banj	<i>Quercus Incana</i>	8'-0"	8	243.84	above 150	
707	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
708	Banj	<i>Quercus Incana</i>	8'-0"	8	243.84	above 150	
709	Banj	<i>Quercus Incana</i>	6'-1"	6.083333333	185.42	above 150	
710	Banj	<i>Quercus Incana</i>	7'-6"	7.5	228.6	above 150	
711	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
712	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
713	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
714	Banj	<i>Quercus Incana</i>	9'-0"	9	274.32	above 150	
715	Banj	<i>Quercus Incana</i>	8'-0"	8	243.84	above 150	
716	Chew	<i>Rhododendron arboreum</i>	2'-7"	2.583333333	78.74	61-90	
717	Singla		2'-6"	2.5	76.2	61-90	
718	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
719	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
720	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
721	Singla		3'-0"	3	91.44	91-120	
722	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
723	Singla		2'-8"	2.666666667	81.28	61-90	
724	Banj	<i>Quercus Incana</i>	5'-0'	5	152.4	above 150	
725	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
726	Banj	<i>Quercus Incana</i>	8'-0"	8	243.84	above 150	
727	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
728	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
729	Singla		2'-11"	2.916666667	88.9	61-90	
730	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
731	Banj	<i>Quercus Incana</i>	3'-11"	3.916666667	119.38	91-120	
732	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
733	Banj	<i>Quercus Incana</i>	2'-10"	2.833333333	86.36	61-90	
734	Chew	<i>Rhododendron arboreum</i>	4'-4"	4.333333333	132.08	121-150	
735	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	
736	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
737	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
738	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
739	Chew	<i>Rhododendron arboreum</i>	3'-4"	3.333333333	101.6	91-120	
740	Banj	<i>Quercus Incana</i>	4'-4"	4.333333333	132.08	121-150	
741	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
742	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
743	Chew	<i>Rhododendron arboreum</i>	2'-3"	2.25	68.58	61-90	
744	Banj	<i>Quercus Incana</i>	6'-11"	6.916666667	210.82	above 150	
745	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
746	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
747	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
748	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
749	Banj	<i>Quercus Incana</i>	3'-11"	3.916666667	119.38	91-120	
750	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
751	Alan	<i>Lyonca nalifolia</i>	2'-7"	2.583333333	78.74	61-90	
752	Banj	<i>Quercus Incana</i>	2'-9"	2.75	83.82	61-90	
753	Chew	<i>Rhododendron arboreum</i>	2'-6"	2.5	76.2	61-90	
754	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
755	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
756	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
757	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
758	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
759	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
760	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
761	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
762	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
763	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
764	Banj	<i>Quercus Incana</i>	5'-10"	5.833333333	177.8	above 150	
765	Chew	<i>Rhododendron arboreum</i>	4'-4"	4.333333333	132.08	121-150	
766	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
767	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
768	Chew	<i>Rhododendron arboreum</i>	3'-7"	3.583333333	109.22	91-120	
769	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
770	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
771	Chew	<i>Rhododendron arboreum</i>	2'-5"	2.416666667	73.66	61-90	
772	Banj	<i>Quercus Incana</i>	4'-5"	4.416666667	134.62	121-150	
773	Chew	<i>Rhododendron arboreum</i>	2'-6"	2.5	76.2	61-90	
774	Chew	<i>Rhododendron arboreum</i>	2'-7"	2.583333333	78.74	61-90	
775	Chew	<i>Rhododendron arboreum</i>	3'-2"	3.166666667	96.52	91-120	

776	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
777	Chew	<i>Rhododendron arboreum</i>	2'-8"	2.666666667	81.28	61-90	
778	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
779	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
780	Chew	<i>Rhododendron arboreum</i>	4'-0"	4	121.92	121-150	
781	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
782	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
783	Chew	<i>Rhododendron arboreum</i>	2'-6"	2.5	76.2	61-90	
784	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
785	Banj	<i>Quercus Incana</i>	2'-4"	2.333333333	71.12	61-90	
786	Chew	<i>Rhododendron arboreum</i>	3'-4"	3.333333333	101.6	91-120	
787	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
788	Chew	<i>Rhododendron arboreum</i>	5'-0"	5	152.4	above 150	
789	Alan	<i>Lyonca nalfolia</i>	3'-4"	3.333333333	101.6	91-120	
790	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
791	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
792	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
793	Chew	<i>Rhododendron arboreum</i>	5'-0"	5	152.4	above 150	
794	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
795	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
796	Banj	<i>Quercus Incana</i>	2'-10"	2.833333333	86.36	61-90	
797	Chew	<i>Rhododendron arboreum</i>	2'-9"	2.75	83.82	61-90	
798	Banj	<i>Quercus Incana</i>	2'-10"	2.833333333	86.36	61-90	
799	Banj	<i>Quercus Incana</i>	2'-4"	2.333333333	71.12	61-90	
800	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
801	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
802	Chew	<i>Rhododendron arboreum</i>	5'-0"	5	152.4	above 150	
803	Chew	<i>Rhododendron arboreum</i>	3'-3"	3.25	99.06	91-120	
804	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
805	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
806	Chew	<i>Rhododendron arboreum</i>	5'-0"	5	152.4	above 150	
807	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
808	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
809	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
810	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
811	Chew	<i>Rhododendron arboreum</i>	3'-6"	3.5	106.68	91-120	
812	Chew	<i>Rhododendron arboreum</i>	4'-7"	4.583333333	139.7	121-150	
813	Chew	<i>Rhododendron arboreum</i>	2'-2"	2.166666667	66.04	61-90	
814	Chew	<i>Rhododendron arboreum</i>	3'-10"	3.833333333	116.84	91-120	
815	Chew	<i>Rhododendron arboreum</i>	3'-8"	3.666666667	111.76	91-120	
816	Chew	<i>Rhododendron arboreum</i>	3'-4"	3.333333333	101.6	91-120	
817	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
818	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
819	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
820	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
821	Banj	<i>Quercus Incana</i>	4'-4"	4.333333333	132.08	121-150	
822	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
823	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
824	Banj	<i>Quercus Incana</i>	3'-6"	3.5	106.68	91-120	
825	Banj	<i>Quercus Incana</i>	3'-10"	3.833333333	116.84	91-120	
826	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
827	Banj	<i>Quercus Incana</i>	4'-10"	4.833333333	147.32	121-150	
828	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
829	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
830	Banj	<i>Quercus Incana</i>	4'-4"	4.333333333	132.08	121-150	
831	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
832	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
833	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
834	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
835	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
836	Chew	<i>Rhododendron arboreum</i>	6'-8"	6.666666667	203.2	above 150	
837	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
838	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
839	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
840	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
841	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
842	Banj	<i>Quercus Incana</i>	4'-1"	4.083333333	124.46	121-150	
843	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
844	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
845	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
846	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	

847	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
848	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
849	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
850	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
851	Banj	<i>Quercus Incana</i>	4'-4"	4.333333333	132.08	121-150	
852	Banj	<i>Quercus Incana</i>	5'-2"	5.166666667	157.48	above 150	
853	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
854	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
855	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
856	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
857	Banj	<i>Quercus Incana</i>	5'-7"	5.583333333	170.18	above 150	
858	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
859	Banj	<i>Quercus Incana</i>	5'-9"	5.75	175.26	above 150	
860	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
861	Banj	<i>Quercus Incana</i>	5'-8"	5.666666667	172.72	above 150	
862	Banj	<i>Quercus Incana</i>	5'-8"	5.666666667	172.72	above 150	
863	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
864	Banj	<i>Quercus Incana</i>	5'-10"	5.833333333	177.8	above 150	
865	Banj	<i>Quercus Incana</i>	7'-0"	7	213.36	above 150	
866	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
867	Banj	<i>Quercus Incana</i>	3'-8"	3.666666667	111.76	91-120	
868	Banj	<i>Quercus Incana</i>	5'-10"	5.833333333	177.8	above 150	
869	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
870	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
871	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
872	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
873	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
874	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
875	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
876	Banj	<i>Quercus Incana</i>	2'-4"	2.333333333	71.12	61-90	
877	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
878	Banj	<i>Quercus Incana</i>	3'-10"	3.833333333	116.84	91-120	
879	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
880	Banj	<i>Quercus Incana</i>	3'-11"	3.916666667	119.38	91-120	
881	Banj	<i>Quercus Incana</i>	5'-6"	5.5	167.64	above 150	
882	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
883	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
884	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
885	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
886	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
887	Banj	<i>Quercus Incana</i>	5'-9"	5.75	175.26	above 150	
888	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
889	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
890	Banj	<i>Quercus Incana</i>	2'-5"	2.416666667	73.66	61-90	
891	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
892	Banj	<i>Quercus Incana</i>	2'-11"	2.916666667	88.9	61-90	
893	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
894	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
895	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
896	Banj	<i>Quercus Incana</i>	2'-10"	2.833333333	86.36	61-90	
897	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
898	Banj	<i>Quercus Incana</i>	2'-11"	2.916666667	88.9	61-90	
899	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
900	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
901	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
902	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
903	Banj	<i>Quercus Incana</i>	2'-11"	2.916666667	88.9	61-90	
904	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
905	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
906	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
907	Banj	<i>Quercus Incana</i>	3'-5"	3.416666667	104.14	91-120	
908	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
909	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
910	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
911	Banj	<i>Quercus Incana</i>	3'-7"	3.583333333	109.22	91-120	
912	Banj	<i>Quercus Incana</i>	5'-7"	5.583333333	170.18	above 150	
913	Banj	<i>Quercus Incana</i>	5'-1"	5.083333333	154.94	above 150	
914	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
915	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
916	Banj	<i>Quercus Incana</i>	4'-10"	4.833333333	147.32	121-150	
917	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	

918	Banj	<i>Quercus Incana</i>	2'-1"	2.083333333	63.5	61-90	
919	Banj	<i>Quercus Incana</i>	2'-9"	2.75	83.82	61-90	
920	Banj	<i>Quercus Incana</i>	2'-11"	2.916666667	88.9	61-90	
921	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
922	Banj	<i>Quercus Incana</i>	4'-5"	4.416666667	134.62	121-150	
923	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
924	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
925	Banj	<i>Quercus Incana</i>	2'-2"	2.166666667	66.04	61-90	
926	Chew	<i>Rhododendron arboreum</i>	3'-11'	3.916666667	119.38	91-120	
927	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
928	Banj	<i>Quercus Incana</i>	4'-7"	4.583333333	139.7	121-150	
929	Banj	<i>Quercus Incana</i>	3'-9"	3.75	114.3	91-120	
930	Banj	<i>Quercus Incana</i>	2'-11"	2.916666667	88.9	61-90	
931	Singla		3'-0"	3	91.44	91-120	
932	Singla		3'-7"	3.583333333	109.22	91-120	
933	Singla		2'-10"	2.833333333	86.36	61-90	
934	Singla		3'-9"	3.75	114.3	91-120	
935	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
936	Banj	<i>Quercus Incana</i>	3'-2"	3.166666667	96.52	91-120	
937	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
938	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
939	Banj	<i>Quercus Incana</i>	4'-11'	4.916666667	149.86	121-150	
940	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
941	Singla		3'-3"	3.25	99.06	91-120	
942	Singla		3'-8"	3.666666667	111.76	91-120	
943	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
944	Chew	<i>Rhododendron arboreum</i>	2'-11"	2.916666667	88.9	61-90	
945	Chew	<i>Rhododendron arboreum</i>	3'-9"	3.75	114.3	91-120	
946	Banj	<i>Quercus Incana</i>	5'-5"	5.416666667	165.1	above 150	
947	Banj	<i>Quercus Incana</i>	4'-10"	4.833333333	147.32	121-150	
948	Banj	<i>Quercus Incana</i>	3'-5"	3.416666667	104.14	91-120	
949	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
950	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
951	Chew	<i>Rhododendron arboreum</i>	3'-5"	3.416666667	104.14	91-120	
952	Alan	<i>Lyonca nalifolia</i>	3'-0"	3	91.44	91-120	
953	Alan	<i>Lyonca nalifolia</i>	3'-1"	3.083333333	93.98	91-120	
954	Banj	<i>Quercus Incana</i>	2'-11"	2.916666667	88.9	61-90	
955	Chew	<i>Rhododendron arboreum</i>	3'-10"	3.833333333	116.84	91-120	
956	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
957	Alan	<i>Lyonca nalifolia</i>	3'-3"	3.25	99.06	91-120	
958	Chew	<i>Rhododendron arboreum</i>	4'-2"	4.166666667	127	121-150	
959	Alan	<i>Lyonca nalifolia</i>	4'-0"	4	121.92	121-150	
960	Banj	<i>Quercus Incana</i>	2'-7"	2.583333333	78.74	61-90	
961	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
962	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
963	Chew	<i>Rhododendron arboreum</i>	3'-0"	3	91.44	91-120	
964	Banj	<i>Quercus Incana</i>	2'-3"	2.25	68.58	61-90	
965	Singla		5'-0"	5	152.4	above 150	
966	Singla		2'-7"	2.583333333	78.74	61-90	
967	Singla		2'-6"	2.5	76.2	61-90	
968	Singla		2'-4"	2.333333333	71.12	61-90	
969	Singla		2'-3"	2.25	68.58	61-90	
970	Singla		2'-9"	2.75	83.82	61-90	
971	Dori	<i>Alnus</i>	2'-11"	2.916666667	88.9	61-90	
972	Singla		3'-2"	3.166666667	96.52	91-120	
973	Banj	<i>Quercus Incana</i>	4'-2"	4.166666667	127	121-150	
974	Banj	<i>Quercus Incana</i>	2'-8"	2.666666667	81.28	61-90	
975	Banj	<i>Quercus Incana</i>	2'-9"	2.75	83.82	61-90	
976	Banj	<i>Quercus Incana</i>	3'-0"	3	91.44	91-120	
977	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
978	Chew	<i>Rhododendron arboreum</i>	9'-0"	9	274.32	above 150	
979	Banj	<i>Quercus Incana</i>	7'-0"	7	213.36	above 150	
980	Banj	<i>Quercus Incana</i>	3'-1"	3.083333333	93.98	91-120	
981	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
982	Banj	<i>Quercus Incana</i>	3'-11"	3.916666667	119.38	91-120	
983	Banj	<i>Quercus Incana</i>	4'-0"	4	121.92	121-150	
984	Banj	<i>Quercus Incana</i>	3'-10"	3.833333333	116.84	91-120	
985	Banj	<i>Quercus Incana</i>	4'-6"	4.5	137.16	121-150	
986	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
987	Banj	<i>Quercus Incana</i>	6'-2"	6.166666667	187.96	above 150	
988	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	

989	Banj	<i>Quercus Incana</i>	5'-0"	5	152.4	above 150	
990	Banj	<i>Quercus Incana</i>	2'-6"	2.5	76.2	61-90	
991	Banj	<i>Quercus Incana</i>	2'-4"	2.333333333	71.12	61-90	
992	Singla		2'-11"	2.916666667	88.9	61-90	
993	Singla		4'-2"	4.166666667	127	121-150	
994	Banj	<i>Quercus Incana</i>	6'-0"	6	182.88	above 150	
995	Banj	<i>Quercus Incana</i>	3'-4"	3.333333333	101.6	91-120	
996	Banj	<i>Quercus Incana</i>	5'-6"	5.5	167.64	above 150	
997	Banj	<i>Quercus Incana</i>	8'-0"	8	243.84	above 150	
998	Singla		2'-6"	2.5	76.2	61-90	
999	Singla		3'-3"	3.25	99.06	91-120	
1000	Singla		4'-5"	4.416666667	134.62	121-150	
1001	Singla		2'-5"	2.416666667	73.66	61-90	
1002	Banj	<i>Quercus Incana</i>	3'-3"	3.25	99.06	91-120	
1003	Singla		2'-8"	2.666666667	81.28	61-90	
1004	Singla		2'-11"	2.916666667	88.9	61-90	
1005	Singla		2'-4"	2.333333333	71.12	61-90	
1006	Singla		3'-8"	3.666666667	111.76	91-120	
1007	Singla		2'-9"	2.75	83.82	61-90	

(Sharma)
7/6/2024

delip
7/6/2024

(Signature)
Range Forest Officer
Billawar Forest Range
Billawar

(Signature)
Divisional Forest Officer
Billawar Forest Division
Billawar

Girth-Wise Abstract of Trees Coming in road alignment from Malhar to Marhoon Part-1 under PMGSY passing through Co.no 25a & 25b of Billawar Forest Range in Billawar Forest Division

S.No	Species	Scientific Name	0-30 (in cm)	31-60 (in cm)	61-90 (in cm)	91-120 (in cm)	121-150 (in cm)	150 Onwards (in cm)	Total
1	Alan	<i>Lyonca nalifolia</i>	0	0	20	30	3	0	53
2	Banj	<i>Quercus Incana</i>	0	0	145	239	178	153	715
3	Chew	<i>Rhododendron arboreum</i>	0	0	55	77	27	10	169
4	Dori	<i>Alnus</i>	0	0	1	0	0	0	1
5	Kainth	<i>Pyrus paschia</i>	0	0	0	0	1	0	1
6	Singla		0	0	35	28	4	1	68
G.total			0	0	256	374	213	164	1007

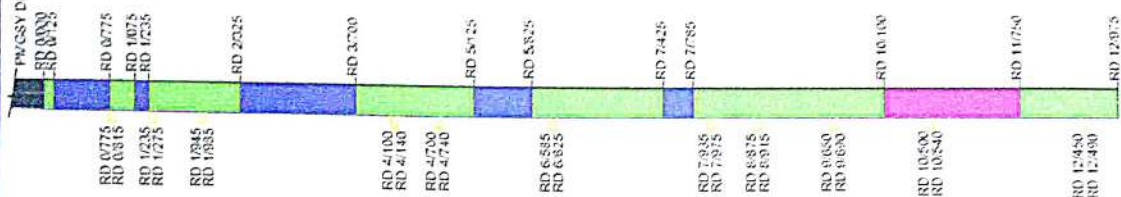
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4/6/2014

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Range Forest Officer
Billawar Forest Range
Billawar

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(Vivek Modi) SFS
Divisional Forest Officer
Billawar Forest Division
Billawar

**LAYOUT PLAN FOR CONSTRUCTION OF ROAD FROM MALHAR TO MARHOON PART-I,
UNDER PACKAGE NO. JK07-136, STAGE-1st, PHASE-X, LENGTH=12.975KM
PMGSY DIVISION BILLAWAR, DISTRICT KATHUA.**



FOREST AREA DETAILS

AREA DETAIL OF ROAD	LENGTH X WIDTH	AREA
RD 0/000 TO 0/125	125M X 6M	750 M ²
RD 0/775 TO 1/075	300M X 6M	1800 M ²
RD 1/235 TO 2/325	1090M X 6M	6540 M ²
RD 3/700 TO 5/125	1425M X 6M	8550 M ²
RD 5/825 TO 7/425	1600M X 6M	9600 M ²
RD 7/785 TO 10/100	2315M X 6M	13890 M ²
RD 10/100 TO 11/750	1650M X 6M	9900 M ²
RD 11/750 TO 12/975	1225M X 6M	7350 M ²
TOTAL -A		58380 M²

DUMPING AREA DETAILS

RD 0/775 TO 0/815	40M X 25M	1000 M ²
RD 1/235 TO 1/275	40M X 25M	1000 M ²
RD 1/945 TO 1/985	40M X 25M	1000 M ²
RD 4/100 TO 4/140	40M X 25M	1000 M ²
RD 4/700 TO 4/740	40M X 25M	1000 M ²
RD 6/585 TO 6/625	40M X 25M	1000 M ²
RD 7/935 TO 7/975	40M X 25M	1000 M ²
RD 8/875 TO 8/915	40M X 25M	1000 M ²
RD 9/650 TO 9/690	40M X 25M	1000 M ²
RD 10/500 TO 10/540	40M X 25M	1000 M ²
RD 12/450 TO 12/490	40M X 25M	1000 M ²
TOTAL -B		11000 M²

LEGEND:-

1.	FOREST LAND (6 M WIDE)	Green
2.	STATE / PRIVATE LAND	Blue
3.	DEEMED FOREST (6 M WIDE)	Pink
4.	DUMPING POINT (40M X 25M)	Yellow

TOTAL AREA= A+B = 58380 M² + 11000 M² = 69380 M² OR 6.938 HECTARES

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Billawar Forest Range
Billawar

[Signature]
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Billawar Forest Division
Billawar

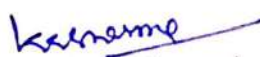
[Signature]
Executive Engineer
PMGSY Division
Billawar

CERTIFICATE

NO VIOLATION OF FOREST (CONSERVATION) ACT, 1980 / GUIDELINE UNDER IT – CERTIFICATE
OF PROJECT AUTHORITY

This is to certify that no work has started in the forest land Village Malhar, Malad, District Kathua, Forest Division Billawar for the construction of road from Malhar to Marhoon (Part-I) in the Union Territory Jammu and Kashmir.

This is also to be certified that the provisions of Forest Conservation Act, 1980 and guidelines has not been violated for the construction of road from Malhar to Marhoon (Part-I) in the Union Territory Jammu and Kashmir District Kathua, Forest Division Billawar.


(Er. Kamal Kishore Sharma)
Executive Engineer
PMGSY Division
Billawar.


Range Forest Officer
Billawar Forest Range
Billawar.

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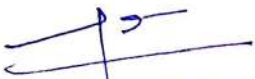
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Billawar Forest Division
Billawar

OFFICE OF THE EXECUTIVE ENGINEER PMGSY DIVISION
BILLAWAR

MINIMUM DEMAND OF FOREST AREA

Certified that all other alternative for the proposed road have been explored and the demand for required identified forest land is 6.938 Ha. Which falls in Village **Malhar, Malad and Marhoon**. The demand for the forest land is minimum required for the construction of road from **Malhar to Marhoon (Part-I) Pkg No. JK07-136** in the Union Territory of Jammu and Kashmir is the barest minimum demand.


Range Forest Officer
Billawar Forest Range
Billawar

c/s

Divisional Forest Officer
Billawar Forest Division
Billawar


(Er. Kamal Kishore Sharma)
Executive Engineer,
PMGSY Division,
Billawar.

OFFICE OF THE EXECUTIVE ENGINEER PMGSY

DIVISION BILLAWAR

The District Development Commissioner,
Kathua.

No:-EE/PMGSY/B/132-35
Dated:-28-04-2021

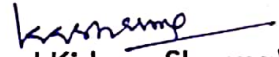
Sub:- Issuance of Forest Rights Act (FRA) Certificate, and Minimum Demand of Forest Land Certificate for Forest Land coming under the alignment for construction of road from Malhar to Marhoon Part-I, Stage-I, Pkg No:-JK07-136, Phase-X, Block:- Lohai Malhar district Kathua.

Sir,

With reference to the above mentioned subject, it is submitted that this division is constructing a road namely Malhar to Marhoon Part-I under Package No:-Jk07-136, Stage-I, Length:-12.975 Kms. There is a requirement of Forest Land for the construction of said road.

Therefore, it is requested to your good self to issue Forest Right Act (FRA) Certificate and Minimum Demand of Forest Land Certificate of above said road. On receipt of these certificates, online submission of forest clearance proposal will be done.

Yours faithfully


(Er. Kamal Kishore Sharma)
Executive Engineer,
PMGSY Division,
Billawar.

Copy to the:-

- 1) Chief Engineer, PMGSY (JKRRDA), Jammu for favour of information please.
- 2) Superintending Engineer, PMGSY Jammu Circle, Jammu for favour of information please.
- 3) AEE, PMGSY Sub-Division, Billawar for information and follow up action.

BRIEF PROJECT NOTE

Name of the Project :- Construction of road from Malhar to Marhoon Part-I, Stage-1st), Pkg No:-Jk07-136, Block Lohai Malhar, District Kathua in PMGSY Division, Billawar.

The road project from Malhar to Marhoon Part-I is sanctioned under PMGSY. The revised length of the road is 12.975 Kms and it takes off from Dhar to Korkhana road. The proposed road will benefit the economy by providing access to basic services to the population. The road will provide access to medical services to the population especially to the underprivileged and vulnerable. Health, sanitation, water supply, agriculture, education, banking facilities will also improve and upgrade with the road development.

The road from Malhar to Marhoon Part-I is a link road in Lohai Malhar block of Kathua District. The road directly connects the habitations of Charoga, Faral, Gaglu, Kanori and Marhoon which will benefit a total population of 1095 souls, as per census 2011 under PMGSY Core Network.

There shall be compensatory afforestation on 13.876 Hect. Of land in Billawar Forest Division over the years it will lead to benefits of inhabitants by providing timber, fuel and fodder in the area.

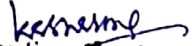
Mitigation measures by provision for Cross Drainage works and Protection Works.

Drainage Crossing:

- | | |
|-----------------|----------|
| 1. HP Culverts | = 41 Nos |
| 2. RCC Culverts | = 25 Nos |
| 3. Scupper | = 02 Nos |
| 4. Bridges | = 03 Nos |

Protection Works:

- | | |
|----------------------|------------|
| 1. Semi Pucca R/wall | = 2200 RMT |
| 2. B/Wall | = 3500 RMT |

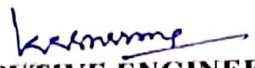

Executive Engineer
PMGSY Division
Billawar

OFFICE OF THE EXECUTIVE ENGINEER PMGSY DIVISION
BILLAWAR

JUSTIFICATION LETTER FOR FOREST /WILD LIFE DIVERSION

The Project for construction of road from Malhar to Marhoon – Part-I (Package No. JK07-136) has been sanctioned in Phase-X under PMGSY, some stretches of the road pass through forest/wildlife area. The road namely Malhar to Marhoon Part-I takes off from the village Malhar and by constructing this road a population of about 1095 souls will directly be connected with said road.

However, Forest/Wildlife area cannot be avoided as the alignment is to be followed strictly as per the approved DPR.


EXECUTIVE ENGINEER
PMGSY DIVISION
BILLAWAR

Copy to the:-

- 1) Chief Engineer PMGSY JKRRDA Jammu for favour of information please.
- 2) Superintending Engineer PMGSY Circle Jammu for favour of information please.

JOINT INSPECTION REPORT OF MALHAR TO MARHOON PART 1 , LENGTH =
12.975 Kms.

A Joint inspection of road from Malhar to Marhoon length 12.975Kms was done by the representatives of PMGSY department and Forest department on 08-03-2021 and 09-03-2021. Out of total length of 12.975 Kms, length involved in Forest is 9.730 Kms. 11 dumping points were proposed in the forest area. Thus total forest area involved is 6.938 Ha including dumping points.

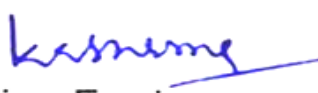
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ABE

Kashme
Executive Engineer
PMGSY Division
Billawar

Shree
Range Forest Officer
Billawar Forest Range
Billawar

Biological measures for stabilization of muck dumping site No. 1 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	450	72.78	0.33
	Total				0.33
2	Afforestation (1st Year)				
i	Plantation: Poly baggeed Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of	Year			0.03
	Total				0.03
	Total (1+2+3)				0.42
4	Overhead 10% of total				0.04
	Grand Total				0.46


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Billawar


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PMGSY Division
Billawar


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Billawar Forest Division
Billawar

Biological measures for stabilization of muck dumping site No. 2 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'.6" x1' x1'.	Rft.	440	72.78	0.32
	Total				0.32
2	Afforestation (1st Year)				
i	Plantation: Poly bagged Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.41
4	Overhead 10% of total				0.04
	Grand Total				0.45


 Range Forest Officer
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 Billawar


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Biological measures for stabilization of muck dumping site No. 3 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1' .	Rft.	450	72.78	0.33
	Total				0.33
2	Afforestation (1st Year)				
i	<u>Plantation:</u> Poly bagged Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	<u>Agave:</u> Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	<u>Grass Slips</u> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	<u>Cutting:</u> Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	<u>Seed Ball:</u> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	<u>Maintenance for 9 years :</u> 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.42
4	Overhead 10% of total				0.04
	Grand Total				0.46

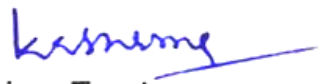

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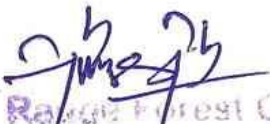
Biological measures for stabilization of muck dumping site No. 4 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'.6" x1' x1'.	Rft.	430	72.78	0.31
	Total				0.31
2	Afforestation (1st Year)				
i	Plantation: Poly baggeed Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.40
4	Overhead 10% of total				0.04
	Grand Total				0.44


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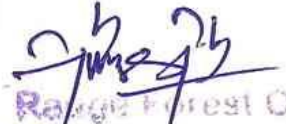
Biological measures for stabilization of muck dumping site No. 5 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	430	72.78	0.31
	Total				0.31
2	Afforestation (1st Year)				
i	Plantation: Poly bagged Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.40
4	Overhead 10% of total				0.04
	Grand Total				0.44

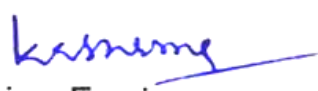

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Biological measures for stabilization of muck dumping site No. 6 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	440	72.78	0.32
	Total				0.32
2	Afforestation (1st Year)				
i	Plantation: Poly bagged Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.41
4	Overhead 10% of total				0.04
	Grand Total				0.45


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Biological measures for stabilization of muck dumping site No. 7 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'.6" x1' x1'.	Rft.	420	72.78	0.31
	Total				0.31
2	Afforestation (1st Year)				
i	Plantation: Poly baggeed Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.40
4	Overhead 10% of total				0.04
	Grand Total				0.43


 Range Forest Officer
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 Billawar Forest Division
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Biological measures for stabilization of muck dumping site No. 8 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	430	72.78	0.31
	Total				0.31
2	Afforestation (1st Year)				
i	Plantation: Poly baggeed Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.40
4	Overhead 10% of total				0.04
	Grand Total				0.44

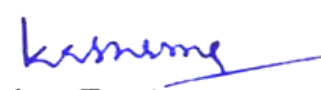

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 Billawar


 Executive Engineer
 PMGSY Division
 Billawar


 Divisional Forest Officer
 Billawar Forest Division
 Billawar

Biological measures for stabilization of muck dumping site No. 9 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'.6" x1' x1'.	Rft.	440	72.78	0.32
	Total				0.32
2	Afforestation (1st Year)				
i	Plantation: Poly bagged Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.41
4	Overhead 10% of total				0.04
	Grand Total				0.45


 Range Forest Officer
 Billawar Forest Range
 Billawar


 Executive Engineer
 PMGSY Division
 Billawar


 Divisional Forest Officer
 Billawar Forest Division
 Billawar

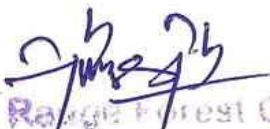
Biological measures for stabilization of muck dumping site No. 10 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'.6" x1' x1' .	Rft.	440	72.78	0.32
	Total				0.32
2	Afforestation (1st Year)				
i	Plantation: Poly baggeed Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.41
4	Overhead 10% of total				0.04
	Grand Total				0.45

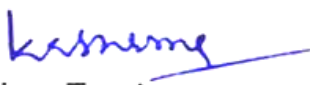

 Range Forest Officer:
 Billawar Forest Range
 Billawar


 Executive Engineer
 PMGSY Division
 Billawar


 Divisional Forest Officer
 Billawar Forest Division
 Billawar

Biological measures for stabilization of muck dumping site No. 11 Aea (0.1 Ha)					
S.NO	Item of work	Unit	Quantity	Rate	Amount
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1' .	Rft.	400	72.78	0.29
	Total				0.29
2	Afforestation (1st Year)				
i	Plantation: Poly baggeed Planting of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	100	29.34	0.03
ii	Agave: Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	Grass Slips (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	Cutting: Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	Seed Ball: Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	Total				0.06
3	Maintenance for 9 years : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	Total				0.03
	Total (1+2+3)				0.38
4	Overhead 10% of total				0.04
	Grand Total				0.42


 Range Forest Officer
 Billawar Forest Range
 Billawar


 Executive Engineer
 PMGSY Division
 Billawar


 Divisional Forest Officer
 Billawar Forest Division
 Billawar



Jammu and Kashmir Forest Department
OFFICE OF THE DIVISIONAL FOREST OFFICER
BILLAWAR FOREST DIVISION BILLAWAR

Ph./Fax No. 01921-295430

E-mail: dfo.billawar@gmail.com

The Conservator of Forests,
East Circle,
Jammu.

No. DFO/BLR/946-51

Dated: 07.06.2021

Sub: Reply to EDS raised by IRO, Jammu in construction of Road from Malhar to Marhoon under PMGSY.

Ref: MOEF& CC IRO, Jammu's file No. 9-JKC-056/2021-Jammu dated: 03.06.2021

Sir,

On the subject & reference cited above, the reply of the EDS raised by IRO, Jammu in construction of Road from Malhar to Marhoon under PMGSY is tabulated below:

S. No	Essential Details Sought by IRO, Jammu	Reply
1.	Rationalization of routes as per inspection report of DFO Billawar to be done. All efforts to be made to minimize damage to pristine patches of forest as mentioned in DFO inspection note.	The query raised by the Regional Officer, IRO, Jammu have been replied to by the User Agency vide their No. EE/PMGSY/B/520-522 dated 08.06.2021. The copy of the said reply has been uploaded by the User Agency in Form-A Part-I on PARIVESH under ' Additional Information Details '. However, a copy of the same is enclosed as "Annexure-A"
2.	Alternate route maps examined by UA to be furnished to establish inescapability of the final route recommended by UT Govt.	The query raised by the Regional Officer, IRO, Jammu have been replied to by the User Agency vide their No. EE/PMGSY/B/520-522 dated 08.06.2021. The copy of the said reply has been uploaded by the User Agency in Form-A Part-I on PARIVESH under ' Additional Information Details '. However, a copy of the same is enclosed as "Annexure-A"
3.	Biological component of Muck Disposal Plan with financial implications to be submitted.	The site-specific plans regarding Biological Measures for stabilization of Muck Disposal sites have already been uploaded by the undersigned on PARIVESH under ' Additional Information details '. However, the same has again been uploaded under ' Additional Information Details ' on PARIVESH in Form-A Part-II of the proposal.
4.	Soil and Moisture Conservation work component in CA estimate to be increased due to precipitous terrain.	The CA scheme has been revised and the same has been uploaded on PARIVESH along with the requisite approval from competent authority.

Yours faithfully,

(Vivek Modi) SFS
Divisional Forest Officer
Billawar Forest Division
Billawar

Copy submitted to:

1. The Additional Principal Chief Conservator of Forests (FCA), Nodal Officer, O/o Principal Chief Conservator of Forests, J&K Govt., Jammu for his kind information and necessary action.
2. The Regional Officer, IRO, MoEF&CC, Jammu for his kind information & further necessary action.
3. Chief Conservator of Forests, Jammu for his kind information.
4. Executive Engineer, PMGSY Division, Billawar for information.
5. Range Officer, Billawar for information.

Divisional Forest Officer
Billawar Forest Division
Billawar

OFFICE OF THE EXECUTIVE ENGINEER PMGSY

DIVISION BILLWAR

The Divisional Forest Officer,
Billawar Forest Division,
Billawar

No:-EE/PMGSY/B/520-522
Dated:- 8/6/2021

Subject: - Reply of EDS for Diversion of 6.938 Hect of Forest Land for construction of road from Malhar to Marhoon (Part-I) district Kathua, UT of J&K.

Sir,

Kindly refer to the above captioned subject matter, in this connection it submitted that the point wise reply is as under:-

S. No.	EDS Raised	Reply
1.	Rationalization of roads as per inspection report of DFO Billawar	Undersigned alongwith Worthy Superintending Engineer, PMGSY , Jammu circle, Jammu and field staff inspected the road on 05 th of March, 2021 and curtailed the length of road from 18.433 Kms to 12.975 Kms , in order to save the pristine Deodar trees keeping in view the the recommendations of DFO Billawar.
2.	Alternate Route MAP examined by User Agency to be finished to established inescapability of the final Route recommended by the UT Government.	The route recommended by the User agency is shortest, Economical and involves less number of trees. As the topography of the area is very tough, there is no alternate route for the above said road upto 12.975 Kms.

Hence the report if submitted for further necessary action at your end please.

Yours faithfully


(Er. Kamal Kishore Sharma)
Executive Engineer
PMGSY Division
Billawar

Copy to the:-

- 1) Chief Engineer, PMGSY (JKRRDA), Jammu for favour of information please.
- 2) Superintending Engineer, PMGSY (JKRRDA), Jammu for favour of information please.

MINUTES OF THE 40th MEETING OF THE REGIONAL EMPOWERED COMMITTEE (REC) HELD ON 17th and 18th June, 2021 AT INTEGRATED REGIONAL OFFICE, CHANDIGARH

Agenda item no.9 (Jammu & Kashmir)

File No.	Name of proposal	Online Proposal No.	Forest Land	User Agency
9-JKC056/2021-Jammu	Diversion of 6.938 ha of Forest land for construction of road from Malhar to Marhoon (part-I) District Reasi, U.T. of Jammu & Kashmir.	FP/JK/Road/47637/2020	6.938 ha	PMGSY Billawar

The proposal was placed before the 40th Regional Empowered Committee (REC) of IRO Chandigarh in its meeting held on 18.06.2021 for consideration and the REC noted the salient features of the proposal as under:

- (i) This is the proposal for widening/improvement of road from **Malhar to Marhoon**
- (ii) The legal status of the forest land proposed for diversion (6.938 ha) is Reserved Forests;
- (iii) Total length of the road is 9.730 km;
- (iv) There are 11 muck dumping points in forest area measuring area of 1.10 ha. Rest area is for road construction.
- (v) The proposed alignment is not passing through any National Park, Wildlife Sanctuary, Elephant /Tiger Reserve;
- (vi) The requirement of land is unavoidable and barest minimum;
- (vii) No violation of Forest (Conservation) Act, 1980 as per DFO's site inspection report;
- (viii) No rare /endangered/vulnerable and endemic species of flora and fauna have been found/ recorded in the area;
- (ix) No sacred grove or very old growth trees/forests exists on the site and the forest land proposed for diversion is not having any socio-cultural/religious value;
- (x) There is no Protected Archeological/Heritage site/Defence establishment in the proposed area for diversion.
- (xi) The proposal involves felling of 1007trees;
- (xii) Compensatory Afforestation (CA) has been proposed on 13.90ha at **one** site namely Comp No. 26a/Blr, Bhalai, Billawar Range.

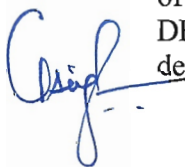


- (xiii) This proposal was examined in the Regional Office & following observations were raised on 03.06.2021, which were replied by UT administration. The point wise details are given below:

S.No	EDS raised by IRO Jammu	Reply submitted by UT
1	Rationalization of routes as per inspection report of DFO Billawar to be done. All efforts to be made to minimize damage to pristine patches of forest as mentioned in DFO inspection note	Compiled. UA have curtailed the length of the road from 18.433 Km to 12.975 Km in order to save the pristine Deodarforest.
2	Alternate route maps examined by UA to be furnished to establish inescapability of the final route recommended by UT Govt.	Compiled. UA replied that their is no alternate route examined due to the topography of the area is very tough.
3	Biological component of Muck Disposal Plan with financial implications to be submitted	Compiled and provided in a site specific manner.
4	Soil and Moisture Conservation work component in CA estimate to be increased due to precipitous terrain	Compiled, in which it is observed that the SMC work has been raised by 0.77 lakh thou the Total Financial Outlay of CA mentioned under column 13 (i) of Part II is 19.92 lacs which does match with amount mentioned under technical approval of CA scheme i.e. 16.92 lacs.

2. After detailed deliberations, the REC approved the proposal and authorized the chairman REC and Regional Officer IRO Chandigarh to accord Stage-I approval with standard conditions after the receipt of the following information:

- Revised NPV calculation to be submitted.
- Permanent and temporary employment figures to be uploaded correctly.
- Addl. Area of 0.41 ha to be increased on the same CA site and to be submitted.
- Nodal Officer to change his recommendations in Part-IV stating that the earlier SIR of DFO Billawar not recommending the proposal to be considered null and void in light of the revised SIR of DFO Billawar wherein the proposal has been recommended by DFO after necessary changes in area/alignment resulting in saving of large number of deodar trees.






J&K Forest Department

OFFICE OF THE DIVISIONAL FOREST OFFICER BILLAWAR

Ph./Fax No. 01921-222030
E-mail: dfo.billawar@gmail.com

The Conservator of Forests
East Circle
Jammu.

No: DFO/BLR/1359-63

Dated: 02.07.2021

Sub: Reply to EDS raised by IRO, Chandigarh in construction of Road from Malhar to Marhoon under PMGSY

**Ref: Minutes of 40th FCA meeting of Regional Empowered Committee (REC) held on 17th& 18th of June, 2021
at Regional office, Chandigarh Agenda No. 9 Jammu & Kashmir**

Sir,

On the subject and reference cited above, it is submitted that the instructions raised in the Minutes of Meeting of 40th FCA Regional Empowered Committee (REC) in respect of agenda item No: 9 viz; PMGSY road Malhar to Marhoon, have been complied with by the User Agency as well as by this office.

Therefore, it is requested that the corrected case on PARIVESH Portal may kindly be forwarded to the Integrated Regional Office for accord of Stage-I approval.

Yours faithfully,

**(Vivek Modi) SFS
Divisional Forest Officer
Billawar Forest Division
Billawar**

Copy submitted to:

1. The Additional Principal Chief Conservator of Forests (FCA), Nodal Officer, O/o Principal Chief Conservator of Forests, J&K Govt., Jammu for his kind information.
2. Chief Conservator of Forests, Jammu for his kind information.
3. Executive Engineer, PMGSY Division, (User Agency) Billawar for information.
4. Range Officer, Billawar for information.

**Divisional Forest Officer
Billawar Forest Division
Billawar**