

Sindh Forest Division

WORKS PROPOSAL FOR COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT. 63(A)/SINDH & 65(b)
AGAINST THE Approach road with Avalanches Protection Works from Z-morh Tunnel East Portal to Zojila Tunnel West
Portal LAND DIVERSION CASE

Net Present Value of forest land to be diverted @ Rs.6,99,000/- (Eco Class-VI) = Rs.34,66,3690/-

Number of trees involved in the alignment (30 cm girth and above) = 474 Trees

Total number of plants to be planted in CA for 100 Hacs = 165000 Plants

Labour Rate:- Rs. 330/ day

S.No.	Item of works	Unit	Unit cost in Rs.	Target	
				Phy.	Fin.
1.0	Area	Hac		100	
2.0	Works				
	<u>Advance Work</u>				
2.1	Chain Link Fencing	Rft	1127	0	0.00
2.2	Angle Iron Fencing	Rft	252	30000	75.60
2.3	Wooden Fencing (including extraction cost of fence posts)	Rft	68.77	0	0.00
	<u>Sub-Total (Fencing)</u>			30000	75.60
	<u>Plant Production</u>				
2.4	Nur.cost of Broad Leaved plants (One Year Old)	Nos.	7.44	0	0.00
2.5	Nur.cost of conifer bag plants (Three Year Old)	Nos.	17.18	165000	28.35
2.6	Nur Cost Of Medicinal bag Plants (One Year Old)	Nos.	10.69	0	0.00
2.7	Nur Cost Of Fruit Plants (One Year Old)	Nos.	7.44	0	0.00
	<u>Sub Total</u>				28.35
2.8	Establishment of Nurseries	Hac			2.00
	<u>Sub-Total (Plant Production)</u>				30.35
	<u>CREATION</u>				
2.9	<u>Aided Natural Regeneration</u>				
i	Planting (Conifers)	Nos.	29.34	0	0.00
ii	Dibbles	Nos.	7.18	0	0.00
iii	Patches	Nos.	6.99	0	0.00
	<u>Sub Total</u>				0.00
2.10	Pit Planting Broad Leaved	Nos.	23.17	0	0.00
2.11	Trench Planting Broad Leaved	Nos.	42.70	0	0.00
	<u>Sub Total</u>				0.00
2.12	Pit Planting Conifers	Nos.	29.34	165000	48.41
2.13	Trench Planting Conifers	Nos.	46.42	0	0.00
	<u>Sub Total</u>				48.41
2.14	Jumper Planting (Willows) Incl.Ext.Charges	Nos.	19.81	0	0.00
2.15	<u>Sowing/Dibbling of already existing old closure</u>	Nos.	6.99	0	0.00
i	Sowing Patches	Nos.	7.18	0	0.00
ii	Dibbles				0.00
	<u>Sub Total</u>				
2.16	<u>Silvi pasture</u>	Nos.	23.17	0	0.00
i	Fodder plants	Nos.	6.99	0	0.00
ii	Fodder patches				0.00
iii	Tending Operation				0.00
iv	Bush/Lantana clearance				0.00
	<u>Sub Total</u>				

S.No.	Item of works	Unit	Unit cost in Rs.	Target	
				Phy.	Fin.
2.17	Planting of Medicinal plants /Herbs				
i	Medicinal Plants	Nos.	15.95	0	0.00
2.18	Planting of Fruit/ Ornamental plants				
i	Fruit/ Ornamental Plants	Nos.	23.17	0	0.00
3.0	Soil & Moisture conservation works				
3.1	Crates	Nos.	7000.00	25	1.75
3.2	DRSM Works	Cums	1099.00	200	2.20
3.3	Construction of Water harvesting structure	Nos.	3.00	0	0.00
	Sub Total				3.95
4.0	Beating up of Casualties				
i	Conifers	Nos.	29.34	0	0.00
ii	Broad Leaved Plants	Nos.	23.17	0	0.00
iii	Medicinal plants	Nos.	15.95	0	0.00
iv	Fruit/ Ornamental Plants	Nos.	23.17	0	0.00
v	Willow (Incl.Ext.Charges)	Nos.	19.81	0	0.00
vi	Watch & Ward	Nos.	5400.00	0	0.00
	Sub Total				0.00
5.0	Protection of Plantation & Forests				0.00
5.1	Management of Forest Boundaries				0.00
5.2	Maintenance of Old Closures	Hac	0.00	0	0.00
5.3	Restoration of Forest Boundaries by eviction of				0.00
5.4	Enforcement of Forest Protection				0.00
5.5	Contingency				0.00
	Sub Total				0.00
6.0	Forest Fire Prevention & Control Operations				0.00
	Sub-Total (2 to 6)- i.e Planting Cost				186.65
7.0	Establishment, up-gradation and maintenance of modern nurseries and other planting stock production facilities for production of quality planting material (Form-10)				0.00
8.0	Overhead charges /appreciation including carriage of material through ponies upto site	Hac	0.00	0	10.00
10.0	Construction of View Points	Nos.	0.00	0	
11.0	Provision for installation of Display Boards, Gate photography etc. (Form-7(a)				1.00
12.0	Publicity-cum awareness programme & exhibitions (Form-12)				1.00
	Sub-Total (7 to 14)- i.e. Non-Planting Cost				12.00
Proposal for Maintenance of CA for 10 Years (as per Annexure-A)					55.70
				Total for main CA	254.35
Extraction/Transportation charges for felling of trees coming under the alignment (as per Annexure-B)					6.962
Additional C.A for 273x2 = 546 Saplings (less than 30 cm girth) (as per Annexure-E)					6.53
				Total	267.84
Cost escalation @ 10%					26.78
				Total C.A	294.63
Cost/Assessment of Assets to be relocated (as per Annexure-C)					66.58
Net Present Value of forest land to be diverted @ Rs.6,99,000/- (Eco Class-VI)					346.64
Cost evaluation of 474 Trees (30 cm girth and above) (as per Annexure-F)					25.19
				Grand Total (Rs.in Lacs)	733.03

Range Officer
Sindh Rongorongan
Sindh Rongorongan

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Sindh Rongorongan
Division
General, General

Sindh Forest Division

WORKS PROPOSAL FOR COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT.
63(A)/SINDH & 65(b) AGAINST THE Approach road with Avalanches Protection Works from Z-morh
Tunnel East Portal to Zojila Tunnel West Portal LAND DIVERSION CASE

		Unit	Target
a)	Total Area to be treated (Hac)	Hacs	100
b)	Fencing @300Rfts/hac	Rfts	30000
	Chainlink fencing(Rfts)	Rfts	0
	Angleiron fencing(Rfts)	Rfts	30000
c)	Wooden Fencing (Ext.Posts)	Rfts	0
	Assis.Nat.Regeneration (hac)	Hacs	0
	Conifer planting @400/hac	No,s	0
	Dibbles @200/hac	No,s	0
d)	Patches@200/hac	No,s	0
	Planting Broad Leaved (hac)	Hacs	0
e)	Broad Leaved planting @1650/hac	No,s	0
	Planting Conifers (hac)	Hacs	100
f)	Conifer planting @1650/hac	No,s	165000
	Sowing dibbling(Hac)	Hacs	0
	Dibbles @825/hac	No,s	0
g)	Patches@825/hac	No,s	0
	Trench planting(hac)	Hacs	0
	Planting Broad Leaved @200/hac	No,s	0
h)	Conifer @200@/hac	No,s	0
	Medicinal Plants (Hac)	Hacs	0
i)	Bag Plants @1200 /Hac	No,s	0
	Fruit/ornamental Plants (Hac)	Hacs	0
	Bag Plants @1200 /Hac	No,s	0

Abstract		
Conifers		165000
Broad Leaved		0
Fruit/ Ornamental		0
Medicinal		0

Mr. Riazullah
Sindh Range Ranger

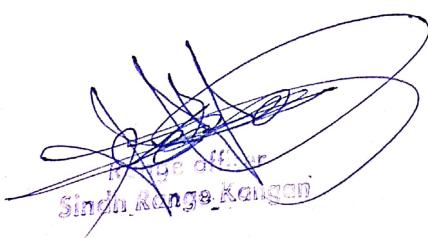
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Divisional Forest Officer,
Divisional Forest Officer,
Sindh Forest Division
Ganderbal

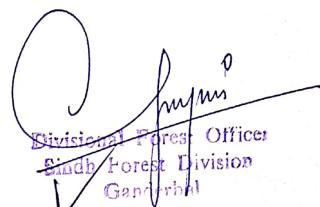
Sindh Forest Division

WORKS PROPOSAL FOR COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN
COMPTT. 63(A)/SINDH & 65(b) AGAINST THE Approach road with Avalanches Protection Works
from Z-morh Tunnel East Portal to Zojila Tunnel West Portal LAND DIVERSION CASE

Plant Requirement (Target under Nur Cost)

Sector	Species wise Plant Requirement				
	Conifers	B.Leaved	Fruit	Medicinal	S.Total
	No,s	No,s	No,s	No,s	No,s
CAMPA 2020-21	165000	0	0	0	165000
CAMPA BUC	0	0	0	0	0
S.Total	165000	0	0	0	165000
Dist.Plan	0	0	0	0	0
State Plan	0	0	0	0	0
C.M,s Part.Program	0	0	0	0	0
Urban Development	0	0	0	0	0
14th FCA	0	0	0	0	0
others	0	0	0	0	0
TOTAL	165000	0	0	0	165000


Range Officer
Sindh Range Officer
Sindh Range Officer


Divisional Forest Officer
Sindh Forest Division
Gandheri

Sindh Forest Division

WORKS PROPOSAL FOR COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT. 63(A)/SINDH & 65(b) AGAINST THE Approach road with Avalanche Protection Works from Z-north Tunnel East Portal to Zojila Tunnel West Portal LAND DIVERSION CASE

Range	Compartment		Total Area of Compartment		Area to be treated		Chain link fencing required		Angle Iron fencing required		Wooden fencing required		Assisted natural regeneration		Plantation	Naked root	Conifer	Sowing Dibbling	Patches	Medicinal Plants	Fruit/ Ornamental	Willow Plantation	DRSM	Crate	Longitude	Latitude
	(Hac)	(Hac)	(Rfts)	(Rfts)	(Hac)	(Hac)	(Hac)	(Hac)	(Hac)	(Hac)	(Cum)	No's														
Sindh	63(a)/sindh	253	33	0	9900	0	0	0	33	0	0	0	Naked root	Conifer	Sowing Dibbling	Patches	Medicinal Plants	Fruit/ Ornamental	Willow Plantation	DRSM	Crate	Longitude	Latitude			
	65(b)/Sindh	487	67	0	20100	0	0	0	67	0	0	0	0	0	0	0	100	15	34°18'34.98"N	75°17'29.92"N						
Total		740	100	0	30000	0	0	0	100	0	0	0	0	0	0	0	100	10	34°17'16.97"N	75°11'13.47"N						

Range No. 63(a)
Sindh Range KJIP

*Divisional Forest Officer,
Sindh Forest Division
Divisional Forest Officer
Sindh Forest Division*

Sindh Forest Division

WORKS PROPOSAL FOR COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT.
62A(SINDH & 45(d)) AGAINST THE Approach road with Avalanches Protection Works from Zojila Tunnel
East Portal to Zojila Tunnel West Portal LAND DIVERSION CASE

Lab Rate - Rs. 3.10

Range - Sindh Block - Kulan - Sindh Year: 2020-21
Contractor No. 424/Sindh

Area to be treated - 33 Hac.

Name of the Scheme "CAMPA"		Objectives of the Scheme To carryout Compensatory Afforestation under forest conservation Act				
S.No.	Description	Area Hac	Unit	Unit Cost Rs.	Cty.	Amount Rs.
1	Fencing (i) Chain Link Fencing (ii) Angle Iron Fencing (six strands) (iii) Wooden Fencing (Ext Posts)		Rhs	1,127	0	0.00
			Rhs	252	9,900	2,494,800.00
			Rhs	0	0	0.00
	Sub-Total:-					2,494,800.00
2	Assisted Natural Regeneration (i) Planting of Conifer Plants. (ii) Dibbles (iii) Patches	0	No's	29.34	0	0.00
			No's	7.18	0	0.00
			No's	6.99	0	0.00
	Sub-Total:-					0.00
3	Pit Planting with Broad Leaved Plants	0	No's	23.17	0	0.00
4	Pit Planting with Conifer Plants	20	No's	29.34	54,450	1,597,563.00
5	Sowing & Dibbling (i) Dibbles (ii) Patches	0	No's	7.18	0	0.00
			No's	6.99	0	0.00
	Sub-Total:-					0.00
6	Silvopasture (i) Planting of Fodder Plants (ii) Fodder Patches	0	No's	23.17	0	0.00
			No's	6.99	0	0.00
	Sub-Total:-					0.00
7	Pit Planting With Medicinal Plants		No's	15.95	0	0.00
8	Pit Planting With Fruit/ ornamental Plants	0	No's	23.17	0	0.00
9	Willow Jumper Plantig	0	No's	19.81	0	0.00
10	Plant Production (i) Naked Root (Broad Leaved) (ii) Conifer (Poly pots) (iii) Fruit bearing/ Ornamental Plants (iv) Medicinal Plants		No's	7.44	0	0.00
			No's	17.18	54,450	935,451.00
			No's	7.44	0	0.00
			No's	10.69	0	0.00
	Sub-Total:-					935,451.00
11	Soil & Moisture Conservation Works (i) Crates (ii) DRSM works		No's	7,000	15	105,000.00
			Cum.	1,099	100	109,900.00
	Sub-Total:-	0				214,900.00
	Total	20				5,242,714.00

Sindh Range Officer
Range Office
Sindh Range Officer

Divisional Forest Officer
Sindh Forest Division
Sindh Forest Division
Gandarpal

Sindh Forest Division

WORKS PROPOSAL FOR COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT.
GHAZIABAD & M&D AGAINST THE Approach road with Avalanches Protection Works from Z-moth Tunnel
East Portal to Zojila Tunnel West Portal LAND DIVERSION CASE

Job Rate: Rs. 330

Range - Sindh Block - Kullu - Sindh Year: 2020-21

Complaint No. 5621/Sindh

Area to be treated - 67 Hac

Name of the Scheme "CAMPAS"		Objectives of the Scheme To carryout Compensatory Afforestation under forest conservation Act				
S.No.	Description	Area Hac	Unit	Unit Cost Rs.	Qty.	Amount Rs.
1	Fencing					
	(i) Chain Link Fencing		Rhs	1,127	0	0.00
	(ii) Angle Iron Fencing (six strands)		Rhs	252	20,100	5,065,200.00
	(iii) Wooden Fencing (Ext Posts)		Rhs	0	0	0.00
	Sub-Total:-					5,065,200.00
2	Assisted Natural Regeneration					
	(i) Planting of Conifer Plants	0	No's	29.34	0	0.00
	(ii) Dibbles		No's	7.18	0	0.00
	(iii) Patches		No's	6.99	0	0.00
	Sub-Total:-					0.00
3	Pit Planting with Broad Leaved Plants	0	No's	23.17	0	0.00
4	Pit Planting with Conifer Plants	20	No's	29.34	110,550	3,243,537.00
5	Sowing & Dibbling					
	(i) Dibbles	0	No's	7.18	0	0.00
	(ii) Patches		No's	6.99	0	0.00
	Sub-Total:-					0.00
6	Silvopasture					
	(i) Planting of Fodder Plants	0	No's	23.17	0	0.00
	(ii) Fodder Patches		No's	6.99	0	0.00
	Sub-Total:-					0.00
7	Pit Planting With Medicinal Plants	0	No's	15.95	0	0.00
8	Pit Planting With Fruit/ ornamental Plants	0	No's	23.17	0	0.00
9	Willow Jumper Planting	0	No's	19.81	0	0.00
10	Plant Production					
	(i) Naked Root (Broad Leaved)		No's	7.44	0	0.00
	(ii) Conifer (Poly pots)		No's	17.18	110,550	1,899,249.00
	(iii) Fruit bearing/ Ornamental Plants		No's	7.44	0	0.00
	(iv) Medicinal Plants		No's	10.69	0	0.00
	Sub-Total:-					1,899,249.00
11	Soil & Moisture Conservation Works					
	(i) Crates		No's	7,000	10	70,000.00
	(ii) DRSM works		Cum	1,099	100	109,900.00
	Sub-Total:-	0				179,900.00
	Total	20				10,387,886.00

Range Officer
Sindh Range Kullu

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Divisional Forest Officer
Divisional Forest Officer
Sindh Forest Division
Ganderbal

WORKS PROPOSAL FOR COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT.
ENAV/SINDH & 65(b) AGAINST THE Approach road with Avalanches Protection Works from Z-morh Tunnel East.
Portal to Zojila Tunnel West Portal LAND DIVERSION CASE

Nursery Estimates of Expenditure (2020-21)

A. Funds Available For Nurseries for the year

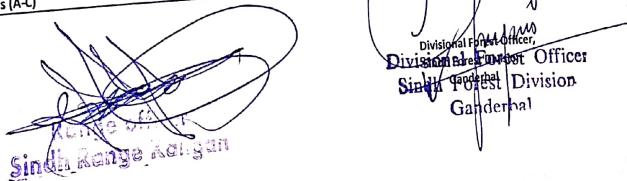
Sector	Plants to be planted including BUC					Amount Available/Likely to become Available Rs in Lakhs
	Conifers	B.Leaved	Medicinal	Fruit	Total	
	No.s	No.s	No.s	No.s	No.s	
District	0	0	0	0	0	0.00
State (RDF)	0	0	0	0	0	0.00
State (CMs Participatory Program)	0	0	0	0	0	0.00
CMs Sp Projects	0	0	0	0	0	0.00
CAMPAs (including BUC)	165000	0	0	0	165000	28.35
SFDA					0	
14th FC Award					0	
Dev.of Conifers					0	
Others					0	
Total	165000	0	0	0	165000	28.35

B. Plantable Plants Available in Nurseries Vi-za -viz Targets

Type	Reqd. for Planting Nos.	Available in Divisional Nurseries		Excess/Deficit Nos.
		Nos.	Nos.	
Conifer plants 3 Season old	165000		165000.00	0
Br.Lvd. Plants 1 Season old	0		0	0
Medicinal plants 1 Season old	0		0	0
Fruit plants of Reqd size	0		0	0
Total	165000		165000	0

C. Works to be Executed in Nurseries

Item of Work	Unit	Qty	Rate Rs.	Amount Rs. in Lakhs
Maintenance Of Existing Nurseries				
Maintenance of Conifers in their 1st Year	No.s	165000	2.66	4.39
Maintenance of Conifers in their 2nd Year	No.s	165000	2.66	4.39
Maintenance of Conifers in their 3rd Year	No.s	165000	3.83	6.32
S.Total	No.s	495000		15.10
Maintenance of Br.Lvd.plants in their 1st Year	No.s	0	2.77	0.00
Maintenance of Med.plants in their 1st Year	No.s	0	2.66	0.00
Maintenance of fruit plants in their 1st Year	No.s	0	2.77	0.00
Raising of new Conifers in lieu of plants taken out	No.s	165000	8.03	13.25
Raising of new Br.Lvd.plants in lieu of plants taken out	No.s	0	4.67	0.00
Raising of new Med.plants in lieu of plants taken out	No.s	0	8.03	0.00
Raising of new fruit/ Ornamental plants in lieu of plants taken out	No.s	0	4.67	0.00
Providing of Shade net structure to nurseries	LS			0.00
Other Misc charges viz casual engagement, Maintt, diesel water pump and const. of water reservoir in concreate	LS			2.00
Angle iron fencing	LS			0.00
Purchase of water springle canes and sign boards etc	LS			0.00
Purchase of big Containers / Net shade structures	LS			30.35
Total on Maintenance				
Extension and Formation				
Extb/Extn of Nurseries	Hacs	0	302544.00	0.00
Providing of Shade net structure gate etc	No.s	0	8.03	0.00
Raising of new conifer plants	No.s	0	4.67	0.00
Raising of new Br.Lvd plants	No.s	0	8.03	0.00
Raising of new Med plants	No.s	0	4.67	0.00
Raising of new Fruit/ Ornamental plants	Rfts	0	0.00	0.00
Fencing of new extended area	Rfts	0	0.00	0.00
Procurement of Fruit/ Ornamental Plants				30.35
Total on Extension				-2.00
G.Total				
Excess/Deficit Funds (A-C)				


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 Divisional Forest Officer
 Divisional Forest Officer
 Sindh Forest Division
 Ganderbal

Sindh Range Officer
 Sindh Range Officer

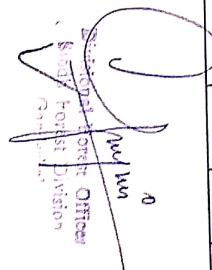
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WORKS PROPOSAL FOR COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT. 63(A)/SINDH & 65(b) AGAINST THE Approach road with Avalanches Protection Works from Z-north Tunnel East Portal to Zojila Tunnel West Portal LAND DIVERSION CASE

Overhead Charges

S.No.	Item	Range	Comptt. No.	Location	Year of start	Project cost	Proposed outlay in APO	Present Physical Status	Expected Date of completion
						Estimated	Rs.Lacs		
1	Overhead charges / appreciation including carriage of material through ponies upto site					10.00	10.00		
Total								10.00	


Range Officer
Sindh Range Kangan


Additional Forest Officer
Sindh Forest Division
Kangan

Proposal for Maintenance of CA for 10 Years

Maintenance proposal for Compensatory Afforestation of the proposed sites in Comptt. 63(a)/Sindh & 65(b)/Sindh against FCA case of Approach road with Avalanches Protection Works from Z-morh Tunnel East Portal to Zojila Tunnel West Portal.

(I) Provision for Beating up of Casualties (BUC) (Plant Maintenance for 03 Years)

Year	Species	Plants to be Planted No.s	BUC Provision		Amount
			%	No.s	
1st Year (2021-22)	Conifer	165000	0	0	0.00
2nd Year (2022-23)			25%	41250	1210275.00
3rd Year (2023-24)			15%	24750	726165.00
4th Year (2024-25)			5%	8250	242055.00
Total BUC		165000		74250	2178495.00

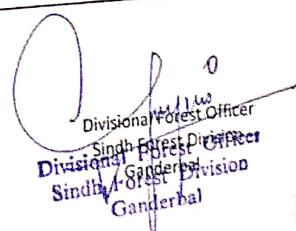
(II) Provision for Maintenance of Fencing

Year	Type of Fencing	Fencing to be erected Rfts	Provision for Maintenance of fencing		Amount
			%	Rfts	
5th Year (2025-26)	Angle Iron	30000	0	0	0.00
6th Year (2026-27)			10%	3000	756000.00
7th Year (2027-28)			8%	2400	604800.00
8th Year (2028-29)			6%	1800	453600.00
9th Year (2029-30)			4%	1200	302400.00
10th Year (2030-31)			3%	900	226800.00
Total		30000		9300	2343600.00

(III) Silviculture Operation (Tending and pruning) of trees after 07 years

Total No. of Trees	Rate/Tree	Total
165000	Rs.6.35/Tree	1047750.00
	Grand Total	5569845.00

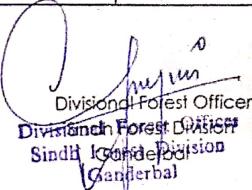

 Sindh Range Officer
 Sindh Range Kangan


 Divisional Forest Officer
 Sindh Forest Division
 Sindh Forest Officer
 Ganderbal Division
 Ganderbal

Annexure-B

Extraction/Transportation charges for felling of trees coming under the construction of Approach road with Avalanches Protection Works from Z-morh Tunnel East Portal to Zojila Tunnel West Portal.

S.No.	Particulars of work	Unit	Rate (In Rs)	Quantity	Amount
1	Extraction of saplings/seedlings coming under the alignment and their transplantation to a suitable site	No's	Rs.40.34/No	0-10=273 trees	11012.82
2	Enumeration of trees/saplings coming under the alignment	No's	Rs. 5.40/No	747 trees	4033.8
3	Marking of trees coming under the alignment	No's	Rs. 9.75/No	747 trees	7283.25
4	Extraction, Conversion, delimiting, debarking and dragging up to KLP and PLP, Passing, Loading at PLP and unloading of timber at destination.-	Cfts	Rs. 60/Cfts	7909 Cfts	474540.00
5	Transportation of timber logs from PLP upto Central Depot Ganderbal average lead 70 Kms @ Rs.0.36/Km/Cfts	Cfts	Rs.25.20/Cft	7909 Cfts	199306.8
Total					696176.67


 Divisional Forest Officer
 Divisional Forest Officer
 Sindhi Kandi Division
 (Ganderbal)

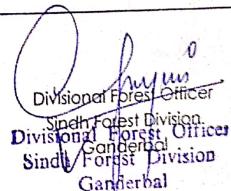

 Superintendent
 Srinagar Range Kangan

SINDH FOREST DIVISION GANDERBAL

(Annexure-C)

Cost/Assessment of Assets coming under Approach road with Avalanches Protection Works from Z-morh Tunnel East Portal to Zojila Tunnel West Portal

S.No.	Particulars	Qty. (In Rfts)	Unit Cost	Amount (In Rs.)	Remarks
1	Chain Link Fencing	2275	1127	2563925	
2	Angle Iron Fencing	2100	252	529200	
3	Conifer Plants planted	3000	29.34	88020	The two closures were established during the year 2018-19 & 2019-20
4	Broad Leaved Plants planted	1200	23.17	27804	
5	Conifer Plants Stocked	20000	17.18	343600	Stocked during the year 2019-20
6	Cost/assessment of existing Guard Hut including its new construction.			2500000	As per PWD Schedule of rates
Total				6052549	
Cost escalation @ 10%				605255	
Grand Total				6657804	


 Divisional Forest Officer
 Sindh Forest Division
 Divisional Forest Officer
 Sindh Forest Division
 Ganderbal


 Range Officer
 Sindh Range Kangan

Cost Evaluation of Trees

Annexure-E

species Wise/Dia Class Wise compensation of trees coming under the Construction of Approach road with Avalanches Protection Works from Z-morh Tunnel East Portal to Zojila Tunnel West Portal

S.No.	Comptt. No.	Species	Dia Class	No of Trees	Rate Per Tree (In Rs)	Amount (In Rs.)		
1	63(a)/Sindh	Kail	0-10	68	Not applicable			
			10-20	196	2304	451584.00		
			20-30	143	4608	658944.00		
			30-40	32	8887	284384.00		
			40-50	10	15799	157990.00		
			50-60	5	26332	131660.00		
			60-70	5	38839	194195.00		
			70-80	3	51346	154038.00		
			80-90	3	62208	186624.00		
			90-100	1	71424	71424.00		
			100-110	1	78336	78336.00		
			Sub-Total		467	2369179.00		
2		Fir	0-10	194	Not applicable			
			10-20	54	904	48816.00		
			20-30	8	1549	12392.00		
			30-40	1	3873	3873.00		
			40-50	2	7101	14202.00		
			50-60	1	13556	13556.00		
			60-70	1	22335	22335.00		
			Sub-Total		261	115174.00		
3	Cuperous		0-10	9	Not applicable			
4	Willow		10-20	3	2280	6840.00		
5		Maple	0-10	2	Not applicable			
			10-20	4	4559	18236.00		
			20-30	1	9118	9118.00		
Sub-Total				7	27354.00			
Total				747	2518547.00			

(Rupees Twenty-five Lacs Eighteen Thousand Five Hundred and Forty-seven Only)

Range Officer Sindh
Range Officer Kagan
Sindh Range Officer

Divisional Forest Officer
Divisional Forest Officer
Sindh Forest Division
Divisional Conservator
Sindh Forest Conservator
Ganderbal

Sindh Forest Division
ADDITIONAL COMPENSATORY AFFORESTATION

ADDITIONAL COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT. 63(A)/SINDH FOR 273X2 = 546 TALL SAPLINGS (less than 30 cm girth) COMING UNDERR THE ALIGNEMNT OF THE PROJECT

Labour Rate:- Rs. 330/- day

S.No.	Item of works	Unit	Unit cost In Rs.	Target	
				Phy.	Fin.
1.0	Area	Hac		0.5	
2.0	Works				
2.1	<u>Advance Work</u>				
2.2	Chain Link Fencing	Rft	1127	0	0.00
2.3	Angle Iron Fencing	Rft	252	894	2.25
2.4	Wooden Fencing (including extraction cost of fence posts)	Rft	68.77	0	0.00
	Sub-Total (Fencing)			894	2.25
2.5	<u>Plant Production</u>				
2.6	Nur. cost of Broad Leaved plants (One Year Old)	Nos.	7.44	0	0.00
2.7	Nur. cost of conifer bag plants (Three Year Old)	Nos.	17.18	546	0.09
2.8	Nur Cost Of Medicinal bag Plants (One Year Old)	Nos.	10.69	0	0.00
2.9	Nur Cost Of Fruit Plants (One Year Old)	Nos.	7.44	0	0.00
	Sub Total				0.09
2.10	Establishment of Nurseries	Hac			
	Sub-Total (Plant Production)				2.00
	<u>CREATION</u>				
2.11	<u>Aided Natural Regeneration</u>				
2.12	i Planting (Conifers)				
2.13	ii Dibbles	Nos.	29.34	0	0.00
2.14	iii Patches	Nos.	7.18	0	0.00
	Sub Total		6.99	0	0.00
2.15	Pit Planting Broad Leaved				
2.16	Trench Planting Broad Leaved	Nos.	23.17	0	0.00
	Sub Total		42.70	0	0.00
2.17	Pit Planting Conifers				
2.18	Trench Planting Conifers	Nos.	29.34	0	0.00
	Sub Total		46.42	546	0.25
2.19	Jumper Planting (Willows) incl.Ext.Charges	Nos.	19.81	0	0.00
2.20	<u>Sowing/Dibbling of already existing old closure</u>				
2.21	i Sowing Patches	Nos.	6.99	0	0.00
2.22	ii Dibbles	Nos.	7.18	0	0.00
	Sub Total				0.00
2.23	<u>Silvi pasture</u>				
2.24	i Fodder plants	Nos.	23.17	0	0.00
2.25	ii Fodder patches	Nos.	6.99	0	0.00
2.26	iii Tending Operation				
2.27	iv Bush/ Lantana clearance				0.00
	Sub Total				0.00


Range officer
Sindh Range Kangan

S.No.	Item of works	Unit	Unit cost in Rs.	Target	
				Phy.	Fin.
2.17	Planting of Medicinal plants /Herbs				
i	Medicinal Plants	Nos.	15.95	0	0.00
2.18	Planting of Fruit/ Ornamental plants				
i	Fruit/ Ornamental Plants	Nos.	23.17	0	0.00
3.0	Soil & Moisture conservation works				
3.1	Crates	Nos.	7000.00	0	0.00
3.2	DRSM Works	Cums	1099.00	0	0.00
3.3	Construction of Water harvesting structure	Nos.	3.00	0	0.00
	Sub Total				0.00
4.0	Beating up of Casualties				
i	Conifers	Nos.	29.34	0	0.00
ii	Broad Leaved Plants	Nos.	23.17	0	0.00
iii	Medicinal plants	Nos.	15.95	0	0.00
iv	Fruit/ Ornamental Plants	Nos.	23.17	0	0.00
v	Willow (Incl.Ext.Charges)	Nos.	19.81	0	0.00
vi	Watch & Ward	Nos.	5400.00	0	0.00
	Sub Total				0.00
5.0	Protection of Plantation & Forests				0.00
5.1	Management of Forest Boundaries				
5.2	Maintenance of Old Closures	Hac	0.00	0	0.00
5.3	Restoration of Forest Boundaries by eviction of				0.00
5.4	Enforcement of Forest Protection				0.00
5.5	Contingency				0.00
	Sub Total				0.00
6.0	Forest Fire Prevention & Control Operations				
	Sub-Total (2 to 6)- i.e Planting Cost				4.69
7.0	Establishment, up-gradation and maintenance of modern nurseries and other planting stock production facilities for production of quality planting material (Form-10)				0.00
8.0	Overhead charges /appreciation including carriage of material through ponies upto site	Hac	0.00	0	0.10
10.0	Construction of View Points	Nos.	0.00	0	0.00
11.0	Provision for installation of Display Boards, Gate photography etc. (Form-7(a)				0.50
12.0	Publicity-cum awareness programme & exhibitions (Form-12)				0.50
	Sub-Total (7 to 12)- i.e. Non-Planting Cost				1.10
	Total				5.79
Proposal for Maintenance of ADDITIONAL COMPENSATORY AFFORESTATION for 07 Year (Enclosed as per Annexure-I)					0.74
	Grand Total Additional C.A				6.53

Range officer
Jhunjhunwala Range Kangan

Div. Forest Officer
Div. Forest Officer
Simandh Forest Division
Ganderbal

Sindh Forest Division

ADDITIONAL COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT. 63(A)/SINDH FOR 273x2 = 546 TALL SAPLINGS (less than 30 cm
girth) COMING UNDERR THE ALIGNMENT OF THE PROJECT

Range	Compartment		Total Area of Compartment (Hac)	Area to be treated (Hac)	Chain link fencing required (Rfts)	Angle Iron fencing required (Rft)	Wooden fencing required (Hac)	Assisted natural regeneration (Hac)	Plantation		Naked root (Hac)	Trench planting Conifer (Hac)	Sowing Dibbling (Hac)	Patches (Hac)	Medicinal Plants (Hac)	Fruit/ Ornamental (Hac)	Willow Plantation (Hac)	DRSM (Cum)	Crate No's	Longitude	Latitude	
	Plantation	Conifer							Plantation	Conifer												
Sindh	63(a)/sindh	253	0.5	0	894	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	34°16'12.92"N	75°22'55.32"E	
Total		253	0.5	0	894	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0			

Divisional Forest Officer
Division Sindh Forest Division
Sindh
Gandharbal
Gandharbal

Sindh Forest Division

ADDITIONAL COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT. 63(A)/SINDH
FOR 273x2 = 546 TALL SAPLINGS (less than 30 cm girth) COMING UNDERR THE ALIGNMENT OF THE
PROJECT

Lab. Rate:- Rs. 330

Range: -Sindh Block:-Kullan :-Sindh Year: 2020-21
Compartment No: -63(a)/Sindh

Area to be treated:- 0.5 Hac

Name of the Scheme "CAMPA"		Objectives of the Scheme To carryout Compensatory Afforestation under forest conservation Act				
S.No.	Description	Area	Unit	Unit Cost	Qty.	Amount
		Hac		Rs.		
1	Fencing					
	(i) Chain Link Fencing.		Rfts	1,127	0	0.00
	(ii) Angle Iron Fencing (six strands)		Rfts	252	894	225,288.00
	(iii) Wooden Fencing (Ext.Posts)		Rfts	0	0	0.00
Sub-Total:-						225,288.00
2	Assisted Natural Regeneration					
	(i) Planting of Conifer Plants.	0	No's	29.34	0	0.00
	(ii) Dibbles		No's	7.18	0	0.00
	(iii) Patches		No's	6.99	0	0.00
Sub-Total:-						0.00
3	Pit Planting with Broad Leaved Plants	0	No's	23.17	0	0.00
4	Pit Planting with Conifer Plants	20	No's	29.34	546	16,019.64
5	Sowing & Dibbling					
	(i) Dibbles	0	No's	7.18	0	0.00
	(ii) Patches		No's	6.99	0	0.00
	Sub-Total:-					0.00
6	Silvopasture					
	Trench Planting Conifers	0.5	Nos.	46.42	546	0.25
	(ii) Fodder Patches	0	No's	6.99	0	0.00
	Sub-Total:-					0.25
7	Pit Planting With Medicinal Plants	0	No's	15.95	0	0.00
8	Pit Planting With Fruit/ ornamental Plants	0	No's	23.17	0	0.00
9	Willow Jumper Plantig	0	No's	19.81	0	0.00
10	Plant Production					
	(i) Naked Root (Broad Leaved)		No's	7.44	0	0.00
	(ii) Conifer (Poly pots)		No's	17.18	0	0.00
	(iii) Fruit bearing/ Ornamental Plants		No's	7.44	0	0.00
	(iv) Medicinal Plants		No's	10.69	0	0.00
Sub-Total:-						0.00
11	Soil & Moisture Conservation Works					
	(i) Crates		No's	7,000	0	0.00
	(ii) DRSM works		Cum	1,099	0	0.00
	Sub-Total:-	0				0.00
Total		0.5				241,307.89

Divisional Forest Officer
Divisional Forest Officer
Sindh Forest Division
Sindh Ganderbal
Ganderbal

Anglo office
Sindh Range Manager

Proposal for Maintenance of ADDITIONAL COMPENSATORY AFFORESTATION for 07 Years

ADDITIONAL COMPENSATORY AFFORESTATION OF THE PROPOSED SITE IN COMPTT. 63(A)/SINDH FOR 273x2 =
546 TALL SAPLINGS (less than 30 cm girth) COMING UNDERR THE ALIGNEMNT OF THE PROJECT

(I) Provision for Beating up of Casualties (BUC) (Plant Maintenance for 03 Years)

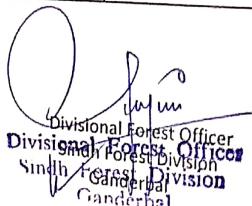
Year	Species	Plants to be Planted		BUC Provision		Amount
		No,s	%	No,s		
1st Year (2021-22)	Conifer	546	0	0		0.00
2nd Year (2022-23)			25%	137		4004.91
3rd Year (2023-24)			15%	82		2402.95
4th Year (2024-25)			5%	27		800.98
Total BUC				246		7208.84

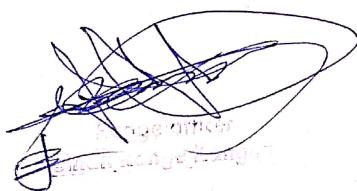
(II) Provision for Maintainance of Fencing

Year	Type of Fencing	Fencing to be erected		Provision for Maintainnace of fencing		Amount
		Rfts	%	Rfts		
5th Year (2025-26)	Angle Iron	894	0	0		0.00
6th Year (2026-27)			10%	89		22528.80
7th Year (2027-28)			8%	72		18023.04
8th Year (2028-29)			6%	54		13517.28
9th Year (2029-30)			4%	36		9011.52
Total		894		250		63080.64

(III) Silviculture Operation (Tending and pruning) of trees after 10 years

Total No. of Trees	Rate/Tree	Total
546	Rs.6.35/Tree	3467.10
Grand Total		73756.58


 Divisional Forest Officer
 Sindh Forest Division
 Ganderbal
 Ganderbal


 Commissioner
 Ganderbal