



ಕರ್ನಾಟಕ ಸರ್ಕಾರ  
GOVERNMENT OF KARNATAKA  
KARNATAKA FOREST DEPARTMENT

o/c



**CATCHMENT AREA TREATMENT PLAN**  
**FOR**  
**CHACHADI LIFT IRRIGATION PROJECT**  
**(6.75 HA)**

Submitted by:

Deputy Conservator of Forests  
Ghataprabha Division, Gokak

**Catchment Area Treatment Plan (2016-17 to 2024-25) for Chachadi Lift Irrigation Project.**

Catchment Area Treatment Plan (2016-17 to 2024-25) for Chachadi Lift Irrigation Project.														
SI No	Particulars of works	Unit	Cost per Unit in Rs	Year wise amount required ( In laks)										
				Advance work	Raising Plantation	Mnt of 1st Year	Mnt of 2ndYear	Mnt of 3rdYear	Mnt of 4thYear	Mnt of 5thYear	Mnt of 6thYear	Mnt of 7thYear	SMC Works	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	<b>Raising of Canal Plantation</b>													
1	a)Advance works	3.6 km	39770	1.432	0	0	0	0	0	0	0	0	0	1.432
	b)Raising of Canal Plantation duirng 2017-18	3.6 km	84975	0	3.059	0	0	0	0	0	0	0	0	3.059
	c)Maintenance of 1st year plantation during 2018-19	3.6 km	49632	0	0	1.787	0	0	0	0	0	0	0	1.787
	d)Maintenance of 2nd year plantation duirng 2019-20	3.6 km	48308	0	0	0	1.739	0	0	0	0	0	0	1.739
	e)Maintenance of 3rd year plantation during 2020-21	3.6 km	51828	0	0	0	0	1.866	0.000	0.000	0.000	0.000	0.000	1.866
	f) Maintenance of 4th year plantation during 2021-22	3.6 km	55530	0	0	0	0	0.000	1.999	0.000	0.000	0.000	0.000	1.999
	g) Maintenance of 5th year plantation during 2022-23	3.6 km	59232	0	0	0	0	0.000	0.000	2.132	0.000	0.000	0.000	2.132
	h) Maintenance of 6th year plantation during 2023-24	3.6 km	62934	0	0	0	0	0.000	0.000	0.000	2.266	0.000	0.000	2.266
	i) Maintenance of 7th year plantation during 2024-25	3.6 km	66636	0	0	0	0	0.000	0.000	0.000	0.000	2.399	0.000	2.399
	<b>Total:</b>	<b>3.6</b>	<b>518845</b>	<b>1.432</b>	<b>3.059</b>	<b>1.787</b>	<b>1.739</b>	<b>1.866</b>	<b>1.999</b>	<b>2.132</b>	<b>2.266</b>	<b>2.399</b>	<b>0.000</b>	<b>18.678</b>

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**DATASHEET - 1 - Advance works for Canal Plantation during 2016-17**  
(unit/ha.)

Rs. **39,770.00**

Sl. No.	CSSR Item No.	Particulars of the Work	Qty.	Rate	Per	Amount
1	32(a)	Alignment in the planting area and marking for pit (without staking)	200 Pits	260.56	1,000	52.11
2	32(b)(iii)	Excavation of pits of size 1 Mtr. x 1 Mtr. x 1Mtr. with vertically cut edges to make an uniform cube and heaping the excavated soil outside the pits (1/3rd top soil to be deposited on the upper side & 2/3rd on the lower side):	200 Pits	145.88	1	29,176.00
3	Sub Estimate	Cost of Raising Seedlings in 14" x 20" PBs, including 10% Casualty Replacement	220 Seedl.	47.88	1	10,533.60
4		Miscellaneous, Unforeseen & rounding off				8.29
		<b>Total</b>				<b>39,770.00</b>

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200 Pits size - 1 M3

## DATASHEET - 2- Raising of Canal Plantation during 2017-18

14"x20" pbs

Sl No.	CSSR Item No.	Particulars of work	Qty	Rate	Per	Amount in Rupees
1	32 (c)	Refilling of pits, cutting of edge of the pit on the lower side and refilling 75% of the pit with the excavated soil, duly breaking the clods & formation of saucer shaped mound on the lower side of the pit	150 Cmtr	15.61	Cmtr	2,341.50
2	23 (f)	<b>Loading &amp; Unloading of polythene bagged seedlings:</b> Loading of polythene-bagged seedlings into the vehicle at the nursery site and unloading at the site nearest to the planting site (including casualty replacement upto 10%) Seedlings raised in 14" x 20" size bags	220 Pbs	6,426.73	1000	1,413.88
3	24 (f)	<b>Transportation:</b> Transportation of polythene-bagged seedlings in hired truck from the nursery site to planting site (including casualty replacement upto 10%) (iv) Seedlings raised in 14"x20" size bags: Distance from 21 to 30 Kms.	220 Pbs	6649.10	1000	1,462.80
4	26(d)	<b>Watering by dipping:</b> Watering polythene bagged seedlings at planting site in water, including carrying of water (including casualty replacement upto 10%) (14"x20")	220 pbs	625.29	1000	137.56
5	32(f)	Conveyance of tall seedlings raised in HDPE bags of size 14"x20" from the dumping point to the planting site near each pit on head load, fixing the supporting stake firmly in the pit, planting the tall seedling in the pit tying the seedling to the supporting stake at 3 points (excluding cost of supporting stake) (14"x20" planting)	220 Plant	34.74	each	7,642.80
6	RQ	<b>Purchase of DAP (50 gms per plant)</b>	10 KG 200 pbs	32.00	KG	320.00
7	38 (e)	Application of fertilizer around the plants about 15 cm. away in a furrow duly covering with soil (excluding the cost of fertilizer) in two equal split doses.	200 Plants	277.87	1000	112.00
8	32(i)	<b>Saucer Bharav:</b> Scraping out of grass and weeds to a radius of 50 cms around the plant, earthening up of plants in the form of a semi-circular slanting saucer shape slope, loosening of boulders if any with soil with the help of pickaxe and arranging the loosened boulders and soil in semi-circular fashion at the lower side of the (Dimension 80 cms diameter and 25 cms depth at deepest point)	200 Nos	7642.58	1000	1,528.52
10	32 (m)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only). <b>(2 times)</b>	200 plants	3,473.92	1000	1,389.57
11	32(p)(ii)	Watering to the seedlings along road side @ 50 ltrs per plant - 4 times	200 Nos.	19.82	Each	15,856.00
12	wage	Watch & Ward of plantations from July-2016 to March -2017 for every 3 Kms. - 274 days	274 days	293.98	3 km	26,850.17
13	32(g)	Cutting & collection of Prosopis juliflora (PJ) branches loading the same into the lorry & unloading at the planting site (10 branches per tall plant)	200 Plant	20.81	each	4,162.00
14	32(h)	Conveyance of P.J. branches to individual pit, tying P.J.branches around the supporting stake properly covering the tall plant with P.J.thorny branches to a height of more than 2m and tying the P.J.branches with G.I.wire at 3 places (10 P.J.branches to be used for tying the fall seedling). Alternately phoenix leaves could be used depending on availability.	200 Plant	24.30	each	4,860.00
15	RQ	<b>Providing &amp; fixing quality plantation board</b>		LS		500.00
16	Sub	Maintenance of 14"x20 seedlings.	220 Pbs	7.77	Each	1,709.40
17	estimate	Raising of 14"x20" pb seedlings. (casualty replacement upto 10%)	20 Pbs	47.88	Each	957.60
18		Miscellaneous, Unforeseen & rounding off				6.20
<b>Total (A)</b>						<b>71,250.00</b>

Sl No.	CSSR Item No.	Particulars of work	Qty		Rate	Per	Amount in Rupees
19	RQ	<b>Stakes</b>					
		<i>Procurement, Transportation &amp; fixing of 10' feet length &amp; 10-15 cm girth Marihala Bamboo / wooden Stakes. Each of the Bamboo / wooden sticks is to be dipped in hot liquid coal tar to a minimum length of 5 feet - Belgavi, Dharwad, Gokak &amp; Haveri Divisions.</i>	200	plants	30.00	each	6,000.00
		Total (C)					6,000.00
		Total (A) + (C)					77,250.00
		Escalation of 10% for the year 2017-18					84,975.00

Deputy Conservator of Forests,  
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**DATASHEET - 3 - Maintenance of 1st Year Canal Plantation during 2018-19**

(unit/ha.)

Rs.

49,632.00

Sl No.	CSSR Item No.	Particulars of work	Qty	Rate	Per	Amount in Rupees
1	41(a)	Re-opening of pits of size 0.75x0.75x0.75 for replacement of causalities	20 Cum	41.69	Each	833.80
2	41(b)	Refilling of pits of size 0.75x0.75x0.75 for replacement of causalities	20 pit	6.95	Pit	139.00
3	23(f)	Loading & unloading of Pbs of size seedlings raised in 14"x20" size pabs	20 Pbs	6426.73	1000	128.53
4	24 (f)(iv)	Transportation: Transportation of polythene-bagged seedlings in hired truck from the nursery site to planting site. Seedlings raised in 14" x 20" size bags : Distance from 31 to 40 Kms.	20 Pbs	8013.04	1000	160.26
5	26(d)	Watering by dipping: Watering polythene bagged seedlings at planting site by dipping in water, including carrying of water Seedlings raised in 14" x 20" size bags	20 pbs	625.29	1000	12.51
6	41(c)	Conveyance of tall seedlings raised in HDPE bags of size 14"x20" from the dumping point to the planting site near each pit on head load, fixing the supporting stake firmly in the pit, planting the tall seedling in the pit tying the seedling to the support	20 Plant	34.74	each	694.80
7	RQ	Purchase of DAP (50 gms per plant)	10 KG 200 pbs	32.00	KG	320.00
8	38 (e)	Application of fertilizer around the plants about 15 cm. away in a furrow duly covering with soil (excluding the cost of fertilizer)	200 Plants	277.87	1000	55.57
9	41(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only). (2 times)	200 pits	3473.92	1000	1,389.57
10	wage	Watch & Ward of plantations from April-2016 to March -2017 for every 3 Kms. - 365 days	3 Kms	293.98	day	35,767.57
11	RQ	Procurement, Transportation & fixing of 10' feet length & 10-15 cm girth Marihala Bamboo / wooden/ Eucalyptus Stakes. Each of the Bamboo / wooden sticks is to be dipped in hot liquid coal tar to a minimum length of 5 feet	20 plants	40.00	each	800.00
12	41(d)	Cutting & collection of Prosopis juliflora (PJ) branches loading the same into the lorry & unloading at the planting site (10 branches per tall plant)	20 Plant	20.81	each	416.20
13	41(e)	Conveyance of P.J. branches to individual pit, tying P.J.branches around the supporting stake properly covering the tall plant with P.J.thorny branches to a height of more than 2m and tying the P.J.branches with G.I.wire at 3 places (10 P.J.branches to be	20 Plant	24.30	each	486.00
14		Maintenance of 14"x20 seedlings.	20 Pbs	7.77	Each	155.40
15		Miscellaneous, Unforeseen & rounding off				0.79
		<b>Total</b>				<b>41,360.00</b>
		<b>Escalation of 20% for the year 2018-19</b>				<b>49,632.00</b>

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**DATA SHEET- 4 - Maintenance of 2nd Year Canal Plantation during 2019-20**

Sl. No.	CSSR Item No.	Particulars of work	Qty (unit/ha.)	Rate	Per	Rs. Amount in Rupees
1	41(ii)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only). (2 time)	200 pits	3473.92	1000	1,389.57
2	wage	Watch & Ward of plantations from April-2016 to March -2017 for every 3 Kms. - 365 days	3 Kms	293.98	day	35,767.57
3		Misc & documentation				2.87
		<b>Total</b>				<b>37,160.00</b>
<b>Escalation of 30% for the year 2019-20</b>						<b>48,308.01</b>

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# DATA SHEET- 5 : Maintenance of 3, Year Canal Plantation during 2020-21

Sl No.	CSSR Item No.	Particulars of work	Qty	Rate	Per	Amount in Rupees
1	42(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only). (2 times)	200 pits	3126.51	1000	1,250.60
2	wage	Watch & Ward of plantations from April-2016 to March -2017 for every 3 Kms. - 365 days	3 Kms	293.98	day	35,767.57
3		Misc & documentation				1.83
		Total				37,020.00
Escalation of 40% for the year 2020-21						51,828.00

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DATA SHEET- 5 : Maintenance of 4, Year Canal Plantation during 2021-22

Sl No.	CSSR Item No.	Particulars of work	Qty	Rate	Per	Rs.	Amount in Rupees
1	42(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only). (2 times)	200 pits	3126.51	1000		1,250.60
2	wage	Watch & Ward of plantations from April-2016 to March -2017 for every 3 Kms. - 365 days	3 Kms	293.98	day		35,767.57
3		Misc & documentation					1.83
		Total					37,020.00
		Escalation of 50% for the year 2021-22					55,530.00

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# **DATA SHEET- 5 : Maintenance of 5, Year Canal Plantation during 2022-23**

Sl.No.	CSSR Item No.	Particulars of work	(unit/ha.)	Qty	Rate	Per	Rs.	Amount in Rupees
1	42(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only). <b>(2 times)</b>		200 pits	3126.51	1000		1,250.60
2	wage	Watch & Ward of plantations from April-2016 to March -2017 for every 3 Kms. - 365 days		3 Kms	293.98	day		35,767.57
3		Misc & documentation						1.83
		Total						37,020.00
		Escalation of 60% for the year 2022-23						59,232.00

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**DATA SHEET- 5 : Maintenance of 6, Year Canal Plantation during 2023-24**

Sl No.	CSSR Item No.	Particulars of work	Qty	Rate	Per	Rs.	62,934.00
							Amount in Rupees
1	42(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only). (2 times)	200 pits	3126.51	1000		1,250.60
2	wage	Watch & Ward of plantations from April-2016 to March -2017 for every 3 Kms. - 365 days	3 Kms	293.98	day		35,767.57
3		Misc & documentation					1.83
		Total					37,020.00
		Escalation of 70% for the year 2023-24					62,934.00

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# DATA SHEET- 5 : Maintenance of 7, Year Canal Plantation during 2024-25

Sl No.	CSSR Item No.	Particulars of work	Qty (unit/ha.)	Rate	Per	Rs. 66,636.00 Amount in Rupees
1	42(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only). (2 times)	200 pits	3126.51	1000	1,250.60
2	wage	Watch & Ward of plantations from April-2016 to March -2017 for every 3 Kms. - 365 days	3 Kms	293.98	day	35,767.57
3		Misc & documentation				1.83
		Total				37,020.00
		Escalation of 80% for the year 2024-25				66,636.00

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