

**ACTION PLAN FOR COMPENSATORY AFFORESTATION FOR THE YEAR 2010-11 UNDER THE FOREST (CONSERVATION) ACT, 1980**

1. The Ministry of Environment & Forests in pursuance of Hon'ble Supreme Court of India in its order dated 30.10.2002 in IA No.566 in Writ Petition (Civil) No.202 of 1995, had issued Notification No.S.O. 525 (E) dated 23.02.2004 published in Gazette of India – Extraordinary constituting Compensatory Afforestation Fund Management and Planning Authority (CAMPA) for the purpose of management of money receivable towards cost of Compensatory Afforestation (CA), Net Present Value (NPV), Catchment Area Treatment (CAT) Fund, any other money recoverable etc. as directed by the Hon'ble Supreme Court.
2. Accordingly, Government of NCT of Delhi, in pursuance of the guidelines issued by the Ministry of Environment and Forests, Government of India on 02.07.2009 on State Compensatory Afforestation Fund Management and Planning Authority (State CAMPA) and putting in place the funding mechanism for enhancing forest and tree cover for utilizing the funds under CA and NPV currently available with Ad-hoc CAMPA as also approved by the Hon'ble Supreme Court of India in IA No. 2143 in WP(C) 202/95, has constituted the State CAMPA comprising of the Governing Body, Steering Committee and Executive Committee vide vide Gazette Notification No.F.1/CF/FCA/07-08/Part –II/3517-3540 dated 05.10.2009
3. The Ministry of Environment & Forests, Govt. of India has accorded approval to the proposals of the user agencies to the diversion of notified forest /deemed forest lands in NCT of Delhi under Section 2 of the Forest (Conservation) Act, 1980 for development of infrastructure/ upgradation of sports facilities for the Commonwealth Games, 2010 based on the recommendations of the Ridge Management Board and approval of the Hon'ble Supreme Court of India, subject to the following general conditions:
  - a) Legal Status of the forest land shall remain unchanged.
  - b) Compensatory Afforestation shall be carried out as per the site-specific cost estimates/ scheme prepared/ approved by the Ministry on double the area of the land proposed for diversion by the Forest Department, Govt. of NCT of Delhi.
  - c) The forest land shall not be used for any purpose other than that specified in the proposal for which the approval has been given.
  - d) The Ministry shall revoke/ suspend the approval so granted in case implementation of any of the above conditions was not found satisfactory.
4. The GOI, MoEF has permitted diversion of 26.06 Ha. of notified forests/ deemed forests for eight projects for development of infrastructure and upgradation of sports facilities in NCT of Delhi for the Commonwealth Games – 2010, requiring 50.97 Ha. of Compensatory Afforestation including the Penal Compensatory Afforestation w.e.f. 22.01.2008 to 17.02.2009.



5. The Department of Forests & Wildlife, GNCTD, in pursuance of Govt. of India's instructions/ orders of the Hon'ble Supreme Court of India, had transferred an amount of Rs.1798.56 lakh to Ad-hoc CAMPA being the cost of CA, Penal CA and NPV realized from the User Agencies up to 12.04.2010 as per the details given below:

Sl. No.	Name of Project/ extent of forest /deemed forest land diverted	CA on DFL (in Ha.)	Cost of CA/ Penal CA	NPV	Total of CA, Penal CA & NPV	Transfer of CA/ Penal CA & NPV to CAMPA vide No./ Date
1.	Upgradation of Talkatora Stadium of NDMC (1.0869 Ha.) cleared by Ministry vide letter No.9DLB 001/2008/CHA/ 748-52 dated 22.01.2008	2.2	61.07	10.00	71.07	Forest Deptt.'s No.F.4/CF/FCA/07-08/ 713-715 dated 19.09.08
2.	Construction of Bridge over Neela Hauz of PWD (1.134 Ha.) cleared by Ministry vide letter No.9DLB 949/2007-CHA/ 747 dt.22.01.2008	2.3	63.23	10.43	73.66	Forest Deptt.'s No.F.3/CF/FC/07-08/ 3541-44 dated 06.10.08
3.	Construction of Qutub Minar-Gurgaon Corridor of DMRC (5.56 Ha.) cleared by Ministry vide letter No.9DLB 663/2007-CHA/ 2763 dated 31.03.2008	11.2	344.86	51.15	396.01	No.F.1/CF/FCA/07-08/ 7673-77 dated 24.03.08
4.	Construction of Airport Link Express of DMRC (6.89 Ha.) cleared by Ministry vide letter No.9DLB 117/2008-CHA/ 4760-66 dated 03.06.2008	8.84	271.07	63.39	334.46	Forest Deptt.'s No.F.7/CF/FCA/07-08/ 626-32 dated 05.05.08
5.	Upgradation of S.P. Mukherjee Swimming Pool Complex of CPWD (2.84 Ha.) cleared by Ministry vide letter	3.23	104.27	13.71	117.98	Forest Deptt.'s No.F.2/CF/FCA /07-08/ 7889-95 dated 28.03.08

	No.DLB 116/2008-CHA/ 2862 dated 03.04.2008					
6.	Construction of diaphragm wall of underground railway line cleared by Ministry vide letter No.9-1235/2001-ROC/1770-71 dated 27.11.2002	0.38	-	3.49	3.49	- do -
7.	Upgradation/ Re-construction of Dr. Karni Singh Shooting Range, Tughlakabad (3.1916 Ha.) cleared by Ministry vide letter No.9DLB 610/2008-CHA/ 11010 dated 22.12.2008	6.4	227.58	29.36	256.94	Forest Deptt.'s No.F.9/CF/FCA/0 8-09/ 4819-23 dated 16.09.08 and No.F.9/CF/FCA/0 8-09/ 4855-62 dated 17.12.08
8.	Diversion of 4.2 Ha of deemed forest land for construction of Depot at Ghitorni of Qutubminar - Gurgaon Corridor of MRTS project of DMRC No.9DLB 488/2008-CHA/ 363 dated 16.1.2009 and . No.9DLB 488/2008-CHA/ 970 dated 17.2. 2008	8.4 Ha. (CA) and 8.4 Ha. (Penal CA)	261.15 (CA) & 245.15 (Penal CA)	38.64	544.94	Forest Deptt.'s No.F.8/CF/FCA/0 7-08/ 4759-64 dated 12.12.08 and No.F.8/CF/FCA/0 7-08/ 4970-76 dated 26.12.08
	<b>Total</b>	<b>51.35</b>	<b>1578.38</b>	<b>220.17</b>	<b>1798.55</b>	

Abstract of the Cost of CA, Penal CA and NPV realized and transferred to Ad-hoc CAMPA is as under:

a) Cost of CA	-	1333.23 lakh
b) Cost of Penal CA	-	245.15 lakh
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		1578.38 lakh
c) NPV	-	220.17 lakh
<b>Total</b>	-	<b>1798.55lakh</b>



6. The Ad-hoc CAMPA, Ministry of Environment & Forests, had released an amount of Rs.1,84,71,000/- (Rupees one crore eighty four lakh seventy one thousand only) being the 1<sup>st</sup> instalment for raising Compensatory Afforestation in the month of January,2010.

7. Accordingly the Action Plan envisages Compensatory Afforestation of 22.58 Ha. or say 23 Ha. of degraded forest land at Aya Nagar in South Revenue District in lieu of 12.45 Ha of notified forest land/ deemed forest land diverted for development of infrastructure etc. in respect of the following projects approved by the Ministry has been prepared for the year 2010-11. However, Compensatory Afforestation of the balance 27.97 Ha. shall be taken up by the Department on release of subsequent instalment by Ad-hoc CAMPA, Ministry of Environment & Forests, GOI..

Sl. No.	Name of Project/ extent of forest land diverted/ clearance accorded by Ministry	Extent of notified / deemed forest land diverted (in Ha.)	CA on DFL (in Ha.)	NPV (Rs in Lakh)	Cost of CA (Rs in Lakh)	Total CA/Pe n. CA and NPV Realised (Rs. in lakh)
1.	Upgradation of Talkatora Stadium of NDMC	1.0869	2.2	10.0	61.07	71.07
2.	Construction of Bridge over Neela Hauz of PWD	1.134	2.3	10.43	63.23	73.66
3.	Upgradation of S.P. Mukherjee Swimming Pool Complex of CPWD	2.84	3.23	13.71	104.27	117.98
4.	Upgradation/ Re-construction of Dr. Karni Singh Shooting Range, Tughlakabad	3.1916	6.4	29.36	227.58	256.94
5.	Diversion of deemed forest land for construction of Depot at Ghitorni of Qutubminar - Gurgaon Corridor of MRTS project of DMRC	4.2	8.4*	38.64	261.15	299.79
	<b>Total</b>	<b>12.4525</b>	<b>22.53</b>	<b>102.14</b>	<b>717.3</b>	<b>819.44</b>

\* An additional amount of Rs..245.15 Crore realized DMRC towards the cost of 8.4 Ha. of Penal CA has also since been transferred to Ad-hoc CAMPA vide this office letter No.F.8/CF/FCA/Ghitorni/07-08/4970-76 dated 26.12.2008 .

8. The project-wise details of khasra numbers identified for carrying out Compensatory Afforestation of 23 Ha of the degraded forest land at Ayanagar in South Forest Division are as under:

Sl. No.	Name of Project/ extent of forest land diverted/ clearance accorded by Ministry	Extent of notified / deemed forest land diverted (in Ha.)	CA required (in Ha.)	Khasra Nos. and extent of land
1.	Upgradation of Talkatora Stadium of NDMC	1.0869	2.2	960 (4-16), 961 (4-16), 964 (4-16), 965 (4-16), 1000 (4-16) and 1001 (4-16) ad-measuring 6 Acre or 2.4 Ha.
2.	Construction of Bridge over Neela Hauz of PWD	1.134	2.3	917 (1-2), 918 (4-16), 919 (4-16), 924 (4-16), 926 (4-16), 957 (4-16), 958 (4-16) and 959 (4-16) ad-measuring 7.23 Acre or 2.9 Ha.
3.	Upgradation of S.P. Mukherjee Swimming Pool Complex of CPWD	2.84	3.23	1004 (4-16), 1005 (4-16), 1006 (4-16), 1007 (4-16) and 1035 (4-16), 1036 (4-16), 1037 (4-16) and 1038 (4-16) ad-measuring 8 Acre or 3.23 Ha.
4.	Upgradation/ Re-construction of Dr. Karni Singh Shooting Range, Tughlakabad	3.1916	6.4	1045 (4-16), 1046 (4-16), 1047 (4-16), 1048 (4-16), 1074 (4-16), 1075 (4-16), 1076 (4-16), 1077 (4-16), 1084 (4-16), 1085 (4-16), 1086 (4-16), 1087 (4-16), 1109 (4-16), 1110 (4-16), 1111 (4-16) and 1112 (4-16) and isolated kh. No. 2002 (4-16) ad-measuring 16 Acre or 6.4 Ha.
5.	Diversion of deemed forest land for construction of Depot at Ghitorni of Qutubminar - Gurgaon Corridor of MRTS project of DMRC	4.2	8.4	1113 (4-16), 1114 (4-16), 1115 (4-16), 1329 (4-16), 1330 (4-16), 1331 (4-16), 1332 (4-16), 1333 (4-16), 1995 (4-16), 1996 (4-16), 1997 (4-16), 1998 (4-16), 1999 (4-16), 2000 (4-16), 2001 (4-16), 2003 (4-16), 2008 (4-16), 2009 (4-16), 2010 (4-16) and 2011 (4-14) ad-measuring 20.98 Acre or 8.4 Ha.
	<b>Total</b>	<b>12.4525</b>	<b>22.53</b> or say <b>23 Ha.</b>	



(7/87)

The layout plan of the khasra numbers of the notified degraded forest land mentioned at Column No.V above has been shown with the coloured portions in the schematic map enclosed and marked as Annexure-I.

**9. Component-wise break-up of the cost of Compensatory Afforestation**

**i. Construction of Boundary Wall:** It is proposed to construct 4 boundary wall around 23 Ha of degraded forest land at Aya Nagar fo The total estimated cost of Rs.129.84 lakhs has been provided in the cost

**ii. Soil and Moisture Conservation Works:** As the propo Compensatory Afforestation is highly degraded and falls in the rain she is essential to have the Contour Trenches dug for ensuring soil a conservation. Small check dams by plugging the gullies wherever re also be undertaken to maintain the moisture regime of the plantation proposed to have trenches of the size of 45 cm. X 45 cm dug along running East to West and North to South depending upon the slope and of the area. The total running meter of such trenching is estimated at involving an estimated cost of Rs.7.74 lakh @ Rs.71/- per RMT based o rates received for the work in the adjacent area. The total estimated cos water conservation works including construction of small check d proposed plantation area of 23 Ha. has been worked out as Rs.22.61 lakh:

**iii. Creation and Maintenance of Plantations:** It is propose plantation of 24783 saplings 23.0 Ha. of degraded forest land at Aya estimated cost of Rs.92.02 lakh. Tall saplings of species indigenous t shall be taken up for plantation and maintained for a period of five estimated cost of Rs.421.48 lakhs. Thus the total cost of creation and 1 of CA of 23 Ha. of degraded forest land has been worked at Rs.513.50 period of five years. The component-wise break-up of estimated cost o maintenance of Compensatory Afforestation has been has been worked out

**(a) Digging of Pits including Flooding of Pits with water after ap Gypsum:** The escapement of the pits shall be 3 mtr.x 3 mtr. i.e. 2 the size of 90 cm.x 90 cm.x 90 cm. has been proposed in the co because of the refractory condition of the sites, which after diggi treated with Gypsum and irrigated with water @ Rs.126.66 per pi estimated cost of the work is estimated at Rs-31.39 Lakh -. for 2

**(b) Refilling of Pits with Good Earth/FYM/Bone Meal/Neem Cak** of the pits shall be done through 5 CFT of good earth, 5 CFT of 1 of Bone Meal and 5 Kg. of Neem Cake per pit @ Rs.107.5/- per 1 estimated cost of refilling of 24783 pits good earth, FYM and bo has been estimated at Rs. 26.64 lakh

**(c) Cost of Saplings:** The cost of 4 to 6 ft. tall saplings of indigenous to the Ridge has been estimated at Rs 52/- and for the



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- (d) **Planting of 4-6 Ft. Tall Saplings:** The per unit cost of planting, staking, initial watering and anti-termite treatment has been estimated at Rs.40/- and the total financial implication for planting of 24783 saplings is estimated at Rs. 9.91 lakh.
- (e) **Irrigation during Planting:** The total estimated cost for irrigation during the month of planting has been worked out at Rs 6.94 lakh @ Rs.28.30/- per sapling.
- (f) **Maintenance of Plantation:** The total estimated cost of Rs.421.48 lakh on maintenance of 24783 saplings including providing Watch & Ward, Watering at least thrice a week, Beating up of the causalities, for five years has been worked out @ Rs.28.35 per sapling per month.

iv. **Selection of Species:** As regards the choice of species, it was informed that the species indigenous to the ridge had been selected for Compensatory Afforestation which include Acacia leucophloea, Acacia catechu, A. Senegal, A. nilotica, Adina cordifolia, Albizia procera, A. lebbeck, Aegle marmelos, Anogeissus pendula, Butea monosperma, Balanites roxburghii, Carissa sp., Cassia fistula, Cordia myxa, Dalbergia sissoo, Diospyros montana, Dichrostachys cineraria, Emblica officinalis, Erythrina sp., Ficus religiosa, F. glomerata, F. infectoria, F. racemosa, Feronia limonia, Holoptelea integrifolia, Morus alba, Mitragyna parviflora, Prosopis cineraria, Rhus sp., Syzigium cumini, Sterculia urens, Terminalia tomentosa, T. chebula, T. belerica., Tamarindus indica, Tecomella undulata, Zizyphus jujuba, Salvadora sp. and Wrightia tinctoria.

v. **Overhead/Incidental Charges:** The expenditure on inspection, engagement of staff for watch & ward, construction of temporary sheds/ porta cabins, purchase of tractor with accessories and Tata-407 shall be borne under Overhead/ Incidental Charges for which the provision has been made in the cost estimates @ 10% of the total cost of plantation in the cost.

Thus the total estimated cost of Compensatory Afforestation of 23.Ha. of Degraded Forest Land at Ayanagar in South Forest Division has been worked out at Rs.665.95 lakh and the project-wise and component-wise break-up of the site-specific cost estimates as approved by the Ministry of Environment & Forests while according the clearance under the Forest (Conservation) Act, 1980 have been shown in the table given below:

Sl. No.	Notified/ deemed forest land diverted for	Extent of CA (in Ha.)	Estimate cost (Rs. in lakh)				
			Fencing	Soil & moisture conservation	Creation of CA	Maint.	Total
1.	Upgradation of Talkatora Stadium of NDMC	2.20	31.12	2.21	7.07	18.15	58.55



2.	Construction of Bridge over Neela Hauz of PWD	2.3	31.92	2.31	7.4	18.97	65
3.	Upgradation of S.P. Mukherjee Swimming Pool Complex of CPWD	3.23	10.0	3.24	13.89	68.86	95.99
4.	Upgradation/ Re-construction of Dr. Karni Singh Shooting Range, Tughlakabad	6.4	40.8	6.42	27.53	136.43	211.18
5.	Construction of Depot at Ghitorni of DMRC	8.4	16.0	8.43	36.13	179.07	239.63
		22.53 or say 23.0	129.84	22.61	92.02	421.48	665.95

The copies of the site specific cost estimates of Compensatory Afforestation prepared by the Deputy Conservator of Forests (South) in respect of the five diversion proposals of the User Agencies, approved by the Ministry of Environment and Forests are based on Delhi Schedule of Rates-2007 and placed in the file and marked as Annexure-II A, B, C, D & E.

10. Based on the site-specific detailed cost estimates, the year-wise phasing out of expenditure proposed to be incurred for creation and maintenance of compensatory plantation of 2.53 Ha. (or say 23.0 Ha.) has been given in the table below:

*Phasing out of the expenditure:*

Item of work	I Year	II Year	III Year	IV Year	V Year	Total
Fencing	129.84	-	-	-	-	129.84
Soil & moisture conservation	22.61	-	-	-	-	22.61
Creation of CA of 24783 saplings	92.02	-	-	-	-	92.02
Maintenance 24783 saplings including watch & ward, watering thrice a week at casualty replacement @ Rs.28/- per plant per month (average)	73.11	87.10	87.09	87.09	87.09	421.48
<b>Total</b>	<b>317.58</b>	<b>87.10</b>	<b>87.09</b>	<b>87.09</b>	<b>87.09</b>	<b>665.95</b>



11. The Annual Plan of Operation prepared for carrying out Compensatory Afforestation on 25 Ha. of degraded forest land at Ayanagar under the Forest (Conservation) Act, 1980 shall be completed by end of the current financial year (2010-11).

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