

GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
DIRECTORATE OF EDUCATION: SCIENCE & TV BRANCH
OLD GARGI COLLEGE BUILDING: LAJPAT NAGAR-IV; NEW DELHI-110024
Ph. No.: 26280408-12; Email: pecdoe2@gmail.com

F.No.DE.40(6)/90/SCB/2025/88-96

Date: 06.05.2025

CIRCULAR

Sub: Greening /Tree Plantation Drive 2025-26 and Special Tree Plantation on the Occasion of Hariyali Teej for the year 2025 in all Schools of DoE-reg.

Please find enclosed herewith Minutes of Meeting dated 22/04/2025 along with CAQM note under the chairmanship of Additional Principal Chief Conservator of Forests and HOD, Department of Forest & Wildlife, GNCT of Delhi regarding Tree Plantation Drive 2025-26 and commemorating the occasion of Hariyali Teej for the year 2025-26.

In this regard, they requested to finalize Action Plan for Tree Plantation Drive 2025-26 and commemorating the occasion of Hariyali Teej for the year 2025. A target of "Three Lakh Seventy Thousand Saplings" (100000 Trees, 200000 Shrubs and 70000 Bamboos) including 50000 Trees on the occasion of Hariyali Teej to be planted in all Govt./Govt.Aided/Private Unaided Recognized Schools of DoE, GNCT of Delhi. The target is fixed by the Department of Environment, GNCT of Delhi for the academic year 2025-26. The said target is enclosed at Annexure -A&B.

In view of the above, the following actions may be taken by the HOSs of all Govt./Govt Aided/Private Unaided Recognized Schools of DoE, GNCT of Delhi

1. Awareness Campaign about Tree Plantation.
2. Increasing Green Patch area using grass and creepers to decrease air pollution.
3. Trees, Shrubs and Bamboos to be planted every month.
4. Organize Poster, Painting, Role Play, Nukkad Natak, Essay and Slogan writing competition on Greening school.
5. Special Tree Plantation Drive on the occasion of Hariyali Teej for the year 2025 starting from Van Mahotsav ie. 1st July 2025 to Hariyali Teej ie. 27th July 2025 with maximum Plantation of Trees saplings on the day of Hariyali Teej ie. 27th July 2025 in the school.
6. 50% Plantation Target to be achieved by all schools up to 27th July 2025.
7. Saplings can be obtained free of cost by the school from any of Nursery being run by the Forest Department, GNCT of Delhi (List enclosed).
8. The HoS/Teacher In-charge of the Eco-Club and all staff members shall plant saplings and regularly monitor the condition of the plants with the help of students participation.
9. Minimum 350 saplings (100 Trees, 180 Shrubs and 70 Bamboos) are to be planted by all schools in the current session.
10. The Action Plan for Plantation/ Greening for the session 2025-26 is enclosed at **Annexure-I** for implementation as per the given schedule.
11. The above mentioned activities will be undertaken under the campaign "Ek Ped Maa Ke Naam" #Plant 4 Mother and details shall be uploaded on Meri LiFE Portal through GAP Portal of Department of Forest and Wildlife, GNCT of Delhi.

All District DDEs are requested to ensure maximum saplings to be planted on the Occasion of Hariyali Teej and Tree Plantation Drive in all Govt./Govt.Aided/Private Unaided Recognized Schools of DoE, GNCT of Delhi under your jurisdiction.

Therefore, all the HoSs of Govt./Govt. Aided/Private-Unaided Recognized Schools of DoE, GNCT of Delhi are requested to submit monthly Plantation report in **Format -I** (every month) and report for Survival rate of Plants for session 2024-25 in **Format-II** (only one time) to their respective Zonal Conveners (list attached).

The Zonal Conveners will send the compiled report of monthly Plantation in **Format-III** (every month) and compiled report for survival Plants in **Format-IV** (only one time) to their respective Science Centres and the Science Centres will submit the compile report to the Science Branch, Old Gargi College Building, Lajpat Nagar-IV, New Delhi-110024, as per time schedule given in the enclosed **Annexure- II**

This issues with the prior approval of the competent authority.

Enclosed: As above



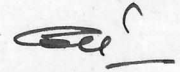
(Dr. C.S.Verma)
DDE (Science)

F.No.DE.40 (6)/90/SCB/2025/ 88-96

Date: 06.05.2025

Copy to:-

1. Secretary to Hon'ble Chief Minister, GNCT of Delhi.
2. Secretary to Hon'ble Minister (Education), GNCT of Delhi.
3. PS to Secretary Education, Directorate of Education, GNCT of Delhi.
4. PS to Director of Education, Directorate of Education, GNCT of Delhi.
5. All DDEs (District/Zone) to monitor & ensure the compliance please.
6. PS to HOD, Department of Forest & Wildlife, GNCT of Delhi.
7. The In-charges of Science Centres (I,II,III & IV)
8. All the HOSs of Govt. /Govt Aided / Private Unaided Recognized Schools of Directorate of Education, GNCT of Delhi.
9. In-charge, Computer Cell with the request to upload the Circular on the Departmental website as well as in public Circular.



(Dr. C.S.Verma)
DDE (Science)

Action Plan for Plantation/Greening for the session 2025-26

S. NO.	THEME	ACTION PLAN	SCHEDULE
1	Tree Plantation in all schools of DoE	<p>Site selection & Soil weathering for plantation.</p> <p>Target of Three Lakh Seventy Thousand plantation is set for session 2025-26. Trees =1,00,000, Shrubs=2,00,000 and Bamboo=70,000</p> <ol style="list-style-type: none"> Green barricading around the walls Plantation of Ashoka Trees and Air purify plants (Rubber, Snake plants). <p>Survey for Survival rate of plants for session 2024-25</p> <p>Special Tree Plantation on the occasion of Hariyali Teej and with maximum Plantation of Trees saplings to be planted on the day of Hariyali Teej ie 27th July2025.</p> <p>Cleaning (Weed removal) & Mortality refreshment</p> <p>Monitoring & Replacement</p>	<p>April to May 2025</p> <p>April 2025 to March 2026</p> <p>May to June 2025</p> <p>1st to 27th July 2025</p> <p>September to October 2025</p> <p>February to March2026</p>
2	Awareness Campaigning.	Survey for more Plantation/ Dense Plantation and the awareness campaign/ drive to be organized in the schools for making school campus green	July 2025
3	Seminar/ Webinar for Zonal conveners in r/o plantation Drive.	Seminar/ Webinar would be organized for Zonal conveners for effective implementations of greening activities in the schools and further Zonal conveners will organize seminar/ webinar for HOS/ Eco Club in-charge for their respective zones.	July 2025
4	Awareness campaigning in the school to protect environment through Eco- club in-charge and students.	<p>To make greening area of school , the following activities is to be organized in the school on the theme – Green School Environment (Display the best slogan & Painting in school premises)</p> <ol style="list-style-type: none"> Essay Writing Slogan Writing Painting Role Play Nukkad Natak 	August 2025
5	Plantation and Greening drive for dense plantation in the school.	We may organizing selection drive under DoE to select the best Green School from each District. Certificate will be awarded after drive to the selected schools.	December 2025
6	Publication of reports in science magazine "Nai Udaan".	Photographs of best schools with green area/ landscape/ plantation will be published for motivation purpose in the magazine "Nai Udaan"	February 2026

Schedule for Submission of Reports (Format-I, II, III and IV)

S.No.	Format	Report	From	To	Submission of Monthly Plantation Report
1	Format-I (Every Month)	Monthly Plantation/Greening Report	HoS	Respective Zonal Convener	1st Day of Every Month
	Format-III (Every Month)	Compiled Report by Zonal Conveners	Zonal Conveners	Respective Science Centre	2nd Day of Every Month
		Compiled Report by Science Centres	Science Centres	Science Branch (HQ)	3rd Day of Every Month
2	Format-II (One Time)	Report of Plantation for the Session 2024-25	HoS	Respective Zonal Convener	5 th July,2025
	Format-IV (One Time)	Compiled Report by Zonal Conveners	Zonal Conveners	Respective Science Centre	11 th July,2025
		Compiled Report by Science Centres	Science Centres	Science Branch (HQ)	14 th July,2025

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**GOVERNMENT OF NCT OF DELHI
DEPARTMENT OF FORESTS & WILDLIFE, GNCTD
2ND FLOOR, A-BLOCK, VIKAS BHAWAN,
IP ESTATE, NEW DELHI-110002**

F.8(266)/Forest/DCF(P&M)/Plg.-I/CAQM 2025-26/2024-25/ 822- 55

Date: 23.04.2025

Minutes of the Meeting held on 21.04.2025 at 11:00 am under the Chairmanship of Additional Principal Chief Conservator of Forests & HOD for commemorating the occasion of Hariyali Teej for the year 2025 in NCT of Delhi-Regarding.

A meeting to discuss and finalize the action plan for commemorating the occasion of Hariyali Teej in NCT of Delhi for the year 2025 was held under the Chairmanship of Additional Principal Chief Conservator of Forests & HOD on 21.04.2025 (Monday) at 11:00 am in the Department of Forests and Wildlife, GNCTD with all the Greening Agencies working in NCT of Delhi. The list of participants is annexed at **Annexure I**.

At the outset DCF(P&M) & Nodal Officer (Green Action Plan) welcomed all the participants and informed that to commemorate the occasion of Hariyali Teej for the year 2025, the Commission for Air Quality Management in National Capital Region and Adjoining Areas (CAQM) has planned to plant at least 10 lakh trees in Delhi from 1st July, 2025 to 27th July, 2025 with plantation of at least 1 lakh trees on the day of Hariyali Teej, i.e., on 27th July, 2025 as per the CAQM Note dated 12.04.2025 (enclosed as **Annexure II**) :

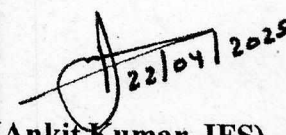
- i. At least 10,00,000 trees are to be planted by all the Greening Agencies working in NCT of Delhi to celebrate Hariyali Teej 2025 starting from Van Mahotsav, i.e., 1st July 2025 and culminating on 27th July 2025.
- ii. From 1st to 26th July 2025 a minimum of 9, 00,000 trees will be planted by the agencies across NCT of Delhi.
- iii. On the day of Hariyali Teej, i.e., on 27th July, 2025 at least 1,00,000 trees will be planted by all the agencies in NCT of Delhi.

Further, in reference to Note from CAQM dated 12.04.2025 following decisions were taken in the meeting:

1. During the event focus will be placed on plantation of tall saplings of 'native tree species' in Delhi.
2. Greening Agencies will upload the plantation details on GAP Portal vide link <https://gap.eforest.delhi.gov.in/login.aspx>.
3. The above mentioned plantation activity will be undertaken under the Campaign "Ek Ped Maa Ke Naam" #Plant4Mother and details shall be uploaded on Meri LiFE Portal through GAP Portal of the Department of Forests and Wildlife, Govt. of NCT of Delhi.
4. In reference to above points, the plantation target allocated to the greening agencies were presented. The targets allocated (agency wise) is annexed at **Annexure- III**.
5. During the meeting concerns were raised by several Greening Agencies regarding land availability, however, the APCCF/HOD requested the agencies to carry out the plantation of trees to ensure achievement of the target set for the Hariyali Teej 2025.
6. Further, all the agencies were requested to submit an action plan for commemorating the occasion of Hariyali Teej 2025 from 1st July to 27th July 2025 to this office within one week so that the same can be conveyed to Commission for Air Quality Management in National Capital Region and Adjoining Areas (CAQM).

The meeting ended with vote of thanks to the chair and the participants.

These issues with the approval of the Competent Authority.


(Ankit Kumar, IFS)
DCF (P&M)

Email: dcfpm.gnctd@delhi.gov.in

To,

1. The Commissioner, MCD, Dr. S.P. Mukherjee Civic Center, JLN Marg, New Delhi-110002.
2. Chairman, New Delhi Municipal Council (NDMC), Palika Kendra, Parliament Street, New Delhi-110001.
3. Dy. Secretary (PWD), Govt. of NCT of Delhi, PWD Secretariat, 3rd Floor, MSO Building, I P Estate, New Delhi-110002.
4. Pr. Commissioner (Personnel, Horticulture & Landscape), Delhi Development Authority, VikasSadan, INA, New Delhi-110023.

5. Chairman, NHAI, National Highways Authority of India, G 5&6, Sector-10, Dwarka, New Delhi – 110075.
6. CGM (SD, EMG & Ash Management), NTPC Limited, NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi – 110003.
7. The Chief Executive Officer, Delhi Cantonment Board, Delhi-110010.
8. The Pr. Chief Engineer Northern Railways, Baroda House, Delhi/ the Divisional Engineer (Hort.), Office of the Northern Railway Divisional Office, State Entry Road New Delhi.
9. JGM/ Land, DMRC, Metro Bhawan, 13, Fire Brigade Lane, Barakhmbha Road, Delhi-110001.
10. The Manager (Civil), HQ, DTC, Office of Sr. Manager (Civil), I.P. Estate, New Delhi-110002.
11. The CEO, Delhi Parks & Garden Society, 6th Floor, C-Wing, Delhi Secretariat, New Delhi.
12. MD, DSIIDC, N-36, Connaught Circus, New Delhi, 110001.
13. Dy. Director (Environment) DSIIDC, Technical Center Ground Floor Building Wazirpur Delhi-110052
14. The Superintending Engineer (Environment) DSIIDC, Technical Center Ground Floor Building Wazirpur Delhi-110052.
15. Director (Horticulture), Delhi Jal Board (HQ), Varunalaya Ph-II, Jhandewalan, Karol Bagh, New Delhi-110005.
16. Director (HE), Directorate of Higher Education, BTE Complex, Muni Maya Ram Marg, Pitampura, Delhi-110034.
17. Asst. Director (Plg.), Nodal Officer of Green Action Plan (Higher Edu.), Directorate of Higher Education, GNCTD, BTE Block, TTE Complex, Muni Maya Ram Marg, Pitampura, Delhi-110034.
18. The Director, Education Department, Old Street, Delhi-110054.
19. The CEO/Director, DUSIB (Delhi Urban Shelter Improvement Board), ITO, New Delhi.
20. Director (Hort.), CPWD, A-Wing, Room No.- 101 Nirman Bhawan, New Delhi- 110011.
21. The Director (Hort.), Environment Department, 11th Floor, MSO Building, I.P. Estate, New Delhi 110002.
22. Chief Engineer (I&FC), Zone-I, L.M. Bund Office Complex, Shastri Nagar, Delhi-110031.
23. Chief Engineer (I&FC), Zone-II, L.M. Bund Office Complex, Shastri Nagar, Delhi-110031.
24. The DGM (CSR), NDPL, Distt. Office, T-Block, MangolPuri, Delhi-110083.
25. The GM/ CSR, BSES Rajdhani Power Ltd., BSES Bhawan, Nehru Place, New Delhi-110019.
26. Additional V.P. CSR BSES Yamuna Power Ltd., Shakti Kiran Building, Karkarduma, Delhi-110032.

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Copy to:

1. PS to APCCF, Department of Forests and Wildlife, GNCTD.
2. PA to CCF, Department of Forests and Wildlife, GNCTD.
3. PA to CF, Department of Forests and Wildlife, GNCTD.
4. PA to CF (HQ), Department of Forests and Wildlife, GNCTD.
5. PA to DCF (Central), Department of Forests and Wildlife, GNCTD.
6. PA to DCF (South), Department of Forests and Wildlife, GNCTD.
7. PA to DCF (North), Department of Forests and Wildlife, GNCTD.
8. PA to DCF (West), Department of Forests and Wildlife, GNCTD.


22/04/2025
(Ankit Kumar, IFS)
DCF (P&M)



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



File No.: A-110017/13/2020/CAQM-GPP

GREENING AND PLANTATION IN DELHI

Abatement of air pollution through greening and plantation programmes is one of the sectors being focused in the policy of the Commission. In line with the policy, greening and plantation activities are being carried out in the NCR region (including Delhi) through various state and central agencies. Regular reviews are also being conducted by the Commission to assess the progress made in this regard as well as to define targets/ plans for the subsequent year. The last review meeting was conducted on March 27, 2025 wherein the nodal agency for Delhi, i.e., the Department of Forests and Wildlife, has submitted a target of **20,42,000** trees for the year 2025-2026. The target has been submitted after obtaining concurrence of the GNCTD. The detailed target, in ascending order, is provided in Annexure I. The total number of agencies contributing to the target is 21.

The Hariyali Teej festival is celebrated to remember the reunion of Shiva and Parvati. It is celebrated on the third day after the new moon in the month of Shraavana/ Sawan (of the Hindu calendar). As Shraavana falls during the monsoon or rainy season when the surroundings become green, the Shraavana Teej is also called Hariyali Teej.

To commemorate the occasion of Hariyali Teej for the year 2025, which is on July 27, 2025, the Commission has planned that at least 10 lakh trees are planted in Delhi between July 1, 2025 and July 27, 2025 with plantation of at least 1,00,000 (one lakh) trees planted on the day of Hariyali Teej. It is also proposed that announcement of the programme may be made on Earth Day i.e., on April 22, 2025 by Hon'ble Minister of Environment and Forest.

In this regard a preliminary discussion was held on April 11, 2025 in the Commission with the Ministry of Environment, Forest and Climate Change and the Nodal Officer, (Greening and Plantation) GNCTD, wherein the following were decided

1. GNCTD shall allocate targets to the different agencies based on the proposal already submitted to the Commission
2. GNCTD to engage with the agencies for smooth implementation of target which will include confirming availability of land with the agencies, ensuring adequate number of suitable native species saplings, geotagging of the plantation and uploading of the same on the portal
3. Since the existing portal of the Department of Forest (Green Action Plan) is operational to capture the plantation done by the different agencies it would be appropriate to use the same portal for uploading the data on plantation for this programme. GNCTD may sensitize the agencies accordingly to ensure that all plantation done under this programme is reflected properly on the dashboard of MeriLife portal through Green Action Plan portal.
4. Based on the above GNCTD will submit a plan within 3 days to the Commission.

17 वी मंजिल, जवाहर व्यापार भवन (एस. टी.सी. बिल्डिंग), टॉलस्टॉय मार्ग, नई दिल्ली-110001

दूरभाष : 011-23701213, ई-मेल : caqm-ncr@gov.in

17th Floor, Jawahar Vyapar Bhawan (STC Building), Tolstoy Marg, New Delhi-110001

Tel:011-23701213, E-mail: caqm-ncr@gov.in

Sl. No.	Agency	Trees	Shrubs	Bamboo	Total
1	Department of Forests and Wildlife GNCTD	700,000	650,000	180,000	1,530,000
2	DDA	400,000	700,000	100,000	1,200,000
3	MCD	300,000	400,000	3,298	703,298
4	PWD	100,000	305,760	50,000	455,760
5	Education (School)	100,000	200,000	70,000	370,000
6	NTPC	120,000	10,000	10,000	140,000
7	Technical Education	70,000	1,000	2,000	73,000
8	Higher Education	53,000	6,000	1,000	60,000
9	NHAI	52,000	35,000	0	87,000
10	NDMC	50,000	1,000,000	50,000	1,100,000
11	DSIIDC	25,000	50,000	10,000	85,000
12	Northern Railways	20,000	24,000	2,000	46,000
13	BSES Rajdhani (BRPL)	16,000	21,000	10,000	47,000
14	CPWD	10,000	20,000	5,000	35,000
15	IFCD GNCTD	10,000	30,000	30,000	70,000
16	NDPL	6,000	6,000	6,000	18,000
17	DJB	3,000	40,000	3,000	46,000
18	DMRC	3,000	1,000	1,000	5,000
19	DUSIB	2,000	14,000	2,000	18,000
20	Delhi Cantt.	1,000	15,000	25,000	41,000
21	DTC	1,000	1,000		2,000
	Total	20,42,000	35,29,760	5,60,298	61,32,058

DEPARTMENT OF FORESTS & WILDLIFE
GOVERNMENT OF NCT OF DELHI
A-BLOCK, 2ND FLOOR, VIKAS BHAWAN
I.P. ESTATE, NEW DELHI-110002
TELEPHONE NO-01123370679, EMAIL-pcpf-gnctd@delhi.nic.in

Annexure-II

PLANTATION TARGET FOR HARIYALI TEEJ FOR THE YEAR 2025

Sl. No.	Greening Agencies	Target for Hariyali Teej 2025		
		Total Target	Target for Tree Plantation for 1st July to 26th July, 2025	Target for Tree Plantation for 27th July, 2025
		Trees		
1	Department of Forests and Wildlife GNCTD	3,30,000	3,10,000	20,000
2	DDA	2,00,000	1,85,000	15,000
3	MCD	1,50,000	1,35,000	15,000
4	PWD	50,000	42,000	8,000
5	Education (School)	50,000	42,000	8,000
6	NTPC	60,000	54,000	6,000
7	Technical Education	35,000	30,000	5,000
8	Higher Education	26,000	21,000	5,000
9	NHAI	26,000	21,000	5,000
10	NDMC	25,000	20,000	5,000
11	DSIIDC	12,000	9,000	3,000
12	Northern Railways	10,000	8,000	2,000
13	BSES Rajdhani (BRPL)	8,000	7,000	1,000
14	CPWD	5,000	4,500	500
15	IFCD GNCTD	5,000	4,500	500
16	NDPL	3,000	2,500	500
17	DJB	1,500	1,350	150
18	DMRC	1,500	1,350	150
19	DUSIB	1,000	900	100
20	Delhi Cantt.	500	450	50
21	DTC	500	450	50
	Total	10,00,000	9,00,000	1,00,000

Annexure-B

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ANNEXURE -I

LIST OF NATIVE TREE SPECIES

S.No.	SPECIES	COMMON NAME	TYPE
1	<i>Aegle marmelos</i>	Bael	Tree
2	<i>Albizia amara</i>	Krishna siris	Tree
3	<i>Albizia lebbbeck</i>	Siris	Tree
4	<i>Albizia odoratissima</i>	Kala siris	Tree
5	<i>Anogeissus pendula</i>	Dhau	Tree
6	<i>Balanites aegyptiaca</i>	Hingot	Tree
7	<i>Bauhinia racemosa</i>	Jhinjheri	Tree
8	<i>Butea monosperma</i>	Dhak	Tree
9	<i>Cassia fistula</i>	Amaltas	Tree
10	<i>Cordia dichotoma</i>	Lasoda	Tree
11	<i>Cordia gharaf</i>	Gondi	Tree
12	<i>Crateva religiosa</i>	Barna	Tree
13	<i>Dichrostachys cinerea</i>	Goya khair	Tree
14	<i>Diospyros cordifolia</i>	B.stendu	Tree
15	<i>Ehretia laevis</i>	Chamrod	Tree
16	<i>Ficus virens</i>	Pilkhan	Tree
17	<i>Flacourtia indica</i>	Bilangda	Tree
18	<i>Gmelina arborea</i>	Ganhar	Tree
19	<i>Holoptelea integrifolia</i>	Kanju/Chudail Papdi	Tree
20	<i>Mitragyna parvifolia</i>	Kadam/Kaim	Tree
21	<i>Moringa concanensis</i>	Wild sonjna	Tree
22	<i>Moringa oleifera</i>	Sonjna	Tree
23	<i>Morus alba</i>	Shahtoot	Tree
24	<i>Phoenix sylvestris</i>	Khajoor	Tree
25	<i>Phyllanthus emblica</i>	Amla	Tree
26	<i>Prosopis cineraria</i>	Khejri	Tree
27	<i>Salvadora oleoides</i>	Khabbar	Tree
28	<i>Salvadora persica</i>	Peelu	Tree
29	<i>Schleichera oleosa</i>	Kusum	Tree
30	<i>Senegalia catechu</i>	Khair	Tree
31	<i>Senegalia modesta</i>	Phulai	Tree
32	<i>Senegalia senegal</i>	Kumttha	Tree
33	<i>Stercularia urens</i>	Kulu	Tree
34	<i>Syzygium cumini</i>	Jamun	

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35	<i>Tamarindus indica</i>	Imli	
36	<i>Tecomella undulata</i>	Roheda	Tree
37	<i>Terminalia bellirica</i>	Baheda	Tree
38	<i>Vachellia leucophloea</i>	Ronjh	Tree
39	<i>Vachellia nilotica</i>	Desi babool	Tree
40	<i>Wrightia arborea</i>	Kala indrajao	Tree
41	<i>Wrightia tinctoria</i>	Doodhi	Tree
42	<i>Ziziphus mauritiana</i>	Ber	Tree

ANNEXURE -II

LIST OF NATIVE SHRUBS

S.No.	SPECIES	COMMON NAME	TYPE
1	<i>Abutilon indicum</i>	Kanghi/Indian mallow	Shrub
2	<i>Barleria prionitis</i>	Vajradanti	Shrub
3	<i>Calotropis gigantea</i>	Safed aak	Shrub
4	<i>Calotropis procera</i>	Aak	Shrub
5	<i>Capparis decidua</i>	Kareel	Shrub
6	<i>Capparis sepiaria</i>	Heens	Shrub
7	<i>Carissa spinarum</i>	Jungli karaunda	Shrub
8	<i>Ficus palmata</i>	Anjeeri	Shrub
9	<i>Grewia asiatica</i>	Falsa	Shrub
10	<i>Grewia flavescens</i>	Pisangna	Shrub
11	<i>Grewia tenax</i>	Gangeti	Shrub
12	<i>Gymnosporia senegalensis</i>	Kankera	Shrub
13	<i>Justicia adhatoda</i>	Adusa	Shrub
14	<i>Lawsonia inermis</i>	Mehendi	Shrub
15	<i>Murraya koenigii</i>	Curry patta	Shrub
16	<i>Nyctanthes arbor-tristis</i>	Harshingar	Shrub
17	<i>Tamarix dioica</i>	Jhau	Shrub
18	<i>Withania somnifera</i>	Ashwagandha	Shrub
19	<i>Ziziphus nummularia</i>	Jhad ber	Shrub
20	<i>Ziziphus oenoplia</i>	Makora	Shrub

1/72697/2023

ANNEXURE -III

LIST OF NATIVE CLIMBERS

S.No.	SPECIES	COMMON NAME	TYPE
1	<i>Clitoria ternatea</i>	Blue pea	Climber
2	<i>Trichosanthes cucumerina</i>	Jungle chanchinda	Climber
3	<i>Combretum indicum</i>	Madhumalti	Climber
4	<i>Coccinia grandis</i>	Tindora/Ivy Gourd	Climber
5	<i>Cardiospermum halicacabum</i>	Kanphuta/Balloon vine	Climber
6	<i>Vallis solanacea</i>	Roth/Bread flower	Climber
7	<i>Tylophora indica</i>	Dam bel	Climber
8	<i>Cocculus hirsutus</i>	Patalgarudi/broom creeper	Climber
9	<i>Cissampelos pareira</i>	Patha	Climber
10	<i>Dregea volubilis</i>	Hemajivanti	Climber
11	<i>Gmelina asiatica</i>	Badhara	Climber
12	<i>Tinospora cordifolia</i>	Giloy	Climber
13	<i>Abrus precatorius</i>	Ratti	Climber

ANNEXURE -IV

LIST OF NATIVE HERBS

S.No.	SPECIES	COMMON NAME	TYPE
1	<i>Asparagus racemosus</i>	Satavari	Herb
2	<i>Ruellia prostata</i>	Neelambaram	Herb
3	<i>Chenopodium murale</i>	Khartua	Herb
4	<i>Blepharis maderaspatensis</i>	Doodhiya choti	Herb
5	<i>Tridax sp.</i>	Bhringraj	Herb
6	<i>Eclipta prostata</i>	Bhringraj	Herb
7	<i>Malvastrum coromandelianum</i>	Three lobed false mallow	Herb
8	<i>Sida acuta</i>		Herb
9	<i>Oxalis corniculata</i>	Common woodsorrel	Herb
10	<i>Oxalis debilis</i>	Pink woodsorrel	Herb
11	<i>Oxalis latifolia</i>	Large leaved sorrel	Herb
12	<i>Stellaria media</i>	Chickweed	Herb
13	<i>Spergula arvensis</i>		Herb
14	<i>Commelina sp.</i>	Dayflower	Herb
15	<i>Euphorbia helioscopia</i>	umbrella milkweed	Herb
16	<i>Indigofera tinctoria</i>	nine-leaved indigo	Herb
17	<i>Melilotus indicus</i>	Jungli methi	Herb
18	<i>Fumaria parviflora</i>	Indian fumitory	Herb
19	<i>Paridaca pilosa</i>	pink purslane	Herb
20	<i>Anagallis arvensis</i>		Herb
21	<i>Corvolvulva c. nummularius</i>	round leaved binweed	Herb
22	<i>Rumex spinosus</i>	Kandiali Palak	Herb

Signed by Amit Anand
Date: 11-02-2023 09:18:16
Reason: Approved

Miyawaki Method and Science

Is the Miyawaki Method based on strong scientific grounds? Are the commonly reported figures credible? For example when saying that Miyawaki urban forests grow 10x faster, 30x denser, with 20x more biodiversity?



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nicolasdebrabandere@gmail.com

AKIRA MIYAWAKI, THE SCIENTIST

Akira Miyawaki, who developed the method of the same name, is a renowned Japanese botanist. He carried out numerous field researches. First in Germany, where he worked with Reinold Tuexen on the concept of potential natural vegetation at the Federal Institute for Vegetation Mapping. The work forms a firm ground of knowledge that is still relevant today for the whole of Europe.

He then carried out the same work in Japan, where he produced for the entire country maps of existing vegetation as well as maps of potential natural vegetation, vegetation that he found at relict sites where native forests are still present. His maps are still used for scientific research. They serve as a model for reconstructing degraded natural habitats and the native plant environment. His fieldworks were conducted over a period of 10 years, and compiled in a 10-volume publication. His work is appreciated for its contribution to phytosociological research (community of plants living together), by allowing comparison of the architecture and characteristics of the vegetation of different areas of the world.

Much of his scientific work, and related researches, are published in Japanese, and not translated in English. This has not prevented him from achieving a remarkable scientific career, with his reputation crossing borders over many years.

CREATING NATIVE FORESTS FOR ENVIRONMENTAL PROTECTION

The originality of Miyawaki's work is that he described the distance between current forest vegetation and potential natural vegetation. Realizing it, he focused his attention on the importance of native forests and the functions of species diversity and complementarity.

His first field trials showed that plantations, whose composition and structure were as close as possible to what they would be in a native forest in the absence of human activity, grew rapidly and, above all, that they showed very good ecological resilience. Native forests are much more resistant to disturbances, to changes in the environment, to disasters. They also regenerate soils more quickly. He proposed a plan to restore native forests for environmental protection. These forests, even on a small scale, can protect life, infrastructure, and people.

His proposal took a long time to find a favorable echo, but it finally hit the mark, first with industries, which could thus restore degraded environments, then as a means of gaining protection against tsunamis, cyclones, for the fixing of embankments, slopes, and even around a new generation nuclear power plant!

Miyawaki actions have been widely supported by insurance companies, industrialists, communities, developers, and the State.

THE MIYAWAKI METHOD

Classical succession theory, developed by Clements (1916), indicates that it takes 150 to 200 years for native forest with a multi-strate community to restore itself on bare soil in Japan or Europe, and 300 to 500 years or more in tropical Southeast Asia.

Miyawaki postulates that the way of life of modern societies will probably no longer allow, in most cases, the necessary time needed for the regeneration of native forests. He therefore seeks to accelerate the process of ecological healing, by imitating as much as possible the normal composition of the primary forest according to the context. He estimates that he can obtain a restored forest in temperate zone, whose facies and structure (if not the genetic diversity, humus, dead wood, or sufficient amount of senescent stage) strongly resemble the native forest, in 20 to 30 years, that is to say **10x faster**.

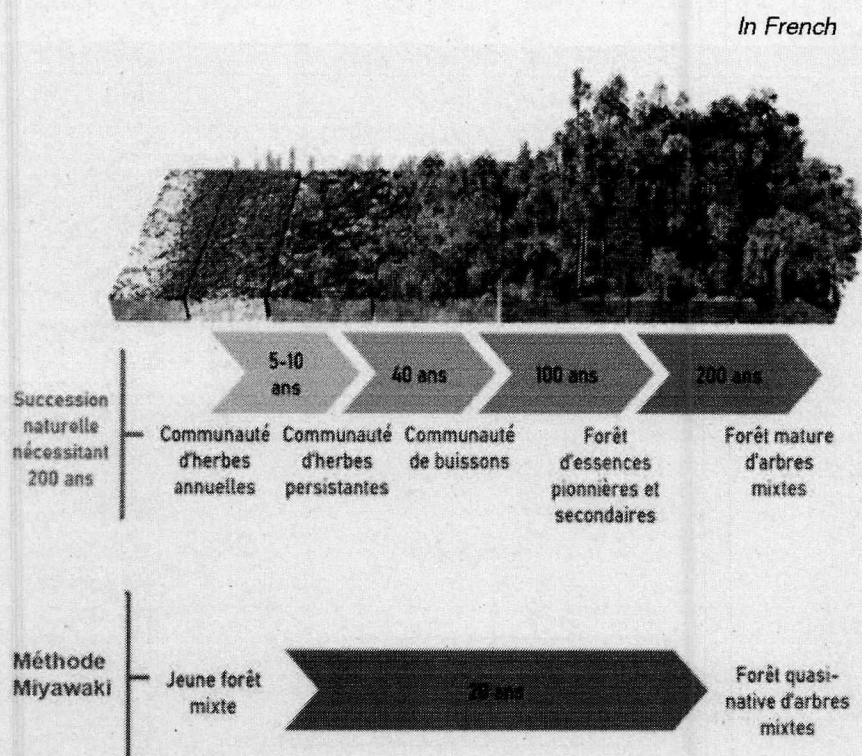


Figure 2 – Comparaison entre la théorie classique de succession et celle induite par la méthode Miyawaki
[Adapté de] (Miyawaki, 2004)

The Miyawaki method was presented as exemplary in a preparatory report for the 1992 Earth Summit, and in the Biodiversity Congress 1994 at the Unesco "Biodiversity" symposium in Paris.

The method was also presented in 1991 at the University of Bonn Colloquium, "Restoration of Tropical Forest Ecosystems", and then at the congresses of the International Association for Ecology, the International Society for Vegetation Science,

and the International Botanical Congress, including new aspects linking growth, natural habitat and estimated carbon fixation.

Curiously, despite more than 1000 successful and sometimes spectacular realizations, the western world of forestry or landscaping has rarely attempted to apply or even test the "Miyawaki method". Fortunately, this is changing, although there is still a persistent denial on the part of some academics, researchers, foresters or ecologists.

The most cited criticism of the Miyawaki method is the high cost of the first phase, including soil preparation and the quantity of trees planted. This cost may be justified when considering exceptional degraded sites where conventional methods fail, or in case of difficult urban or industrial sites that require restoration. The method is also beneficial in the protection against environmental risks, pollution, infrastructure, storms, tsunamis.

The Miyawaki also gains interest to intervene on small areas in urban or peri-urban contexts, when ecological restoration is at stake, when results are needed quickly, for reconnection to nature, for aesthetic or landscape reasons, to involve the public, for biodiversity or simply by choice.

NUMBERS AND FIGURES OF THE MIYAWAKI METHOD

Miyawaki also showed, along with other researchers, that the leaf area of a multi-layered forest formed with potential natural vegetation is about 30 times greater than that of a single-layer lawn, which requires periodic maintenance.

With this figure in mind, it is reasonable to consider that a Miyawaki forest is **30x more dense** than a lawn or a meadow, a classical garden or tree plantation. This is important considering that the density, coupled with the complex three-dimensional structure of the forest, create a wide variety of ecological niches (e.g. different plant species attracting different fauna, canopy trees, understory shrubs, herbaceous plants, mosses, lichens, sun, shade, leaves, bark, twigs, soil, litter, roots, forest interior, edges). This complexity offer tremendous potential for a wide diversity of living organisms to move into the habitat thus created. The presence of organisms can be transitory, temporary, permanent, seasonal, or cyclical.

Scientific papers published in English, or other western languages, about Miyawaki forests, do not show comparison in terms of biodiversity between Miyawaki forests and urban or natural forests. It is possible that results are published in Japanese.

The most relevant study so far (Alterra - Animal ecology et al., 2018) to quantify biodiversity in a Miyawaki forest was made in the Netherlands in 1997. This study was conducted over a full year to compare biodiversity in two Miyawaki forests with that of the surrounding woods (control forests). The results on species diversity and number of individuals are clear: the Miyawaki forests, although very recent and small, count much **more biodiversity**, from 2 to 162 times more, on average **18 times more**.

The Miyawaki method is thus grounded on solid scientific documentation and reporting, with numerous experiments carried out in a multitude of contexts. The results are very positive and their practical and societal implications are very instructive. We invite the scientific community to continue the research on Miyawaki forests, on its biology and functioning, as well as on the societal, behavioral, environmental, economic, health and well-being impacts.

For those we wish to go further into the subject, we invite you to read the report produced by Urban Forests in 2020: **The Miyawaki Method, Data and Concepts**, on the website www.urban-forests.com

Format-I

Monthly Plantation/Greening Report

Name of Month & Year.....

1	NAME OF SCHOOL AND ID					
2	ZONE AND DISTRICT					
3	TYPE OF SCHOOL (GOVT/GOVT AIDED/PRIVATE UNAIDED)					
4	NAME OF HOS					
5	MAIL ID OF SCHOOL					
6	AVAILABLE AREA FOR PLANTATION IN THE SCHOOL (IN SQ. METER)					
7	AREA SUB-DIVIDED DIRECTION WISE (IN SQ. METER)					
a	EAST					
b	WEST					
c	NORTH					
d	SOUTH					
S. No.	MONTH	ACTIVITIES	NO. OF SAPLINGS PLANTED W.E.F. TO			
			TREES	SHRUBS	BAMBOOS	TOTAL
1	April 2025	Plantation through Eco-Club				
2	May 2025	Plantation through Eco-Club				
3	June 2025	Plantation through Eco-Club				
4	July 2025	Plantation through Eco-Club				
5	August 2025	Plantation through Eco-Club				
6	September 2025	Plantation through Eco-Club				
7	October 2025	Plantation through Eco-Club				
8	November 2025	Plantation through Eco-Club				
9	December 2025	Plantation through Eco-Club				
10	January 2026	Plantation through Eco-Club				
11	February 2026	Plantation through Eco-Club				
12	March 2026	Plantation through Eco-Club				

Sign. & Name of Eco-club Incharge

Sign and Name of HoS with Stamp
Mobile Number:**Note: HOSs are advised to provide actual number of saplings planted in the school at every month in the monthly Plantation/Greening report (Format-I)**

(For School)

Format-II

Report for Survival rate of Plants for the Session 2024-25

1	NAME <i>OF</i> SCHOOL AND ID						
2	ZONE AND DISTRICT						
3	TYPE OF SCHOOL (GOVT/GOVT AIDED/ PRIVATE UNAIDED)						
4	NAME OF HOS						
5	MOBILE NO. OF HOS						
6	MAIL ID OF SCHOOL						
7	TOTAL NUMBER OF SAPLING PLANTED IN THE SCHOOL FROM 01.04.2024 TO 31.03.2025			EXISTING (SURVIVED) PLANTS AS ON 31.03.2025			SURVIVAL RATE (IN %) $\left(\frac{\text{TOTAL SURVIVED PLANTS}}{\text{TOTAL SAPLINGS PLANTED}} \times 100 \right)$
	TREES	SHRUBS	TOTAL	TREES	SHRUBS	TOTAL	

Sign. & Name of Eco-club In-charge

Sign. & Name of HoS with stamp

Mobile Number

(For Zonal convener)

Format-III
Compile Report of Monthly Plantation 2025-26

Name of Month & Year.....

Type of School (Govt/Govt Aided/ Private Unaided) :

(Prepare separate sheet for each type of school)

1	NAME OF DISTRICT					
2	ZONE					
3	NAME OF ZONAL CONVENER					
4	NAME OF SCHOOL					
5	MOBILE NO. OF ZONAL CONVENER					
6	MAIL ID OF ZONAL CONVENER					
S.No.	NAME OF SCHOOL	SCHOOL ID	SAPLINGS PLANTED IN THE MONTH OF _____			
			TREES	SHRUBS	BAMBOOS	TOTAL
1						
2						
3						
4						
5						

Sign. & Name of Zonal Convener

(For Zonal convener)

Format-IV

Compile Report on Survival rate of Plants for the Session 2024-25

Type of School (Govt/Govt Aided/ Private Unaided) :
(Prepare separate sheet for each type of school)

1	NAME <i>OF</i> DISTRICT								
2	ZONE								
3	NAME OF ZONAL CONVENER								
4	NAME OF SCHOOL								
5	MOBILE NO. OF ZONAL CONVENER								
6	MAIL ID OF ZONAL CONVENER								

S.No.	NAME OF SCHOOL	SCHOOL ID	TOTAL NUMBER OF SAPLING PLANTED IN THE SCHOOL FROM 01.04.2024 TO 31.03.2025			EXISTING (SURVIVED) PLANTS AS ON 31.03.2025			SURVIVAL RATE (IN %) $\left(\frac{\text{TOTAL SURVIVED PLANTS}}{\text{TOTAL SAPLINGS PLANTED}} \times 100 \right)$
			TREES	SHRUBS	TOTAL	TREES	SHRUBS	TOTAL	
1									
2									
3									

Sign. & Name of Zonal Convener

List for Zonal Conveners for Greening/Plantation Drive for the session 2025-26

Science Centres	District	Zone	Name of Zonal Convener	Designation	Name of School	School ID	Mobile No. of Zonal Convener	E-Mail Id
Centre-4 Surajmal Vihar	East	1	Ms.YOGMAYA	Principal	SKV Surajmal Vlihar, Delhi	1001102	9315070031	1001102hos@gmail.com
		2	Ms. Suman Kumar	VICE PRINCIPAL	GGSSS, School Block ,Shakarpur, Delhi	1002191	9971347172	1002191hos@gmail.com
		3	Ms. Lekha Sharma	VICE PRINCIPAL	GGSSS Lalita Park, Delhi	1003260	9868170822	1003260hos@gmail.com
	North East-I	4	Mr. Anil Kumar Tiwari	Principal	GBSSS, No.2, Ghonda, Delhi	1104007	9462788504	hos1104007@gmail.com
	North East-II	5	Mr. Devender Kumar Shalonia	Vice Principal	GBSS Welcome Colony, Delhi	1105015	9810593297	gbss2004@gmail.com
		6	Mr. Pramod Kumar	Principal	B.P. S.B.V. B-Block Nand Nagri, Delhi.	1106001	9990316275	1106001hos@gmail.com
Centre-1- SU Block, Pitampura	North	7	Mr.Ashashi Shashi Prakash	Principal	GBSSS, Mukundpur Village, Delhi	1207236	9899396085	gbsss1207236@gmail.com
		8	Mr. Atit Saini	Vice Principal	S (Co-Ed) V GulabiBagh, Delhi	1208013	9968312425	gskvgulabibagh@gmail.com
	North West - A	9	Dr.Aishwarya Ratnam Pandeya	Vice Principal	GSKV BL Block, Shalimar Bagh, Delhi	1309030	9818448154	1309030hos@g.mail.com
		10	Mr. Pradeep Kumar	Vice Principal	G co-ed SSS, Holambi Khurd, Delhi	1310472	9811740191	olambikhurd1310472@gmail.com
	North West - B	11	Dr. Anil Kumar	Principal	S.V. C-Block, Saraswati Vihar, Delhi	1411123	9968292553	hos1411123@gmail.com
		12	Mr. Anil Kumar	Vice Principal	GBSSS BC Block, Sultanpuri, Delhi	1412006	9811574783	hos1412006@gmail.com

		13	Ms. Pooja Khatri	Vice Principal	SV Sec.-3, Rohini, Delhi	1413002	8860591939	1413002zone13@gmail.com
Centre-3 Link Road, Karol Bagh	West-A	14	Mr. Neeraj Kumar Jindal	Vice Principal	SBV NO.2 Tilak Nagar, Delhi	1514006	8377924084	sbvprincipal@gmail.com
		15	Mr. Manoj Kumar	Principal	SBV Subhash Nagar, Delhi	1515003	9718664805	1515003z15@gmail.com
		16	Mr. Narendra Singh	Principal	SBV Shadi Khampur, Delhi	1516011	9818822624	gbsss1516011@gmail.com
	West-B	17	Dr. Rakesh Kumar	Principal	Govt. Sarvodaya Vidyalaya B-4, Paschim Vihar, New Delhi	1617008	8447364875	gscevb4pv@gmail.com
		18	Ms. Sudha Sharma	Principal	G.G.S.S. School No.2, Uttam Nagar, New Delhi	1618021	9013802327	unggsss@gmail.com
Centre-2 C-4, Vasant Vihar, New Delhi	South West-A	19	Mr. Narender Kumar	Vice-principal	Govt. Ce-ed SSS, Sec.5, R.K.Puram, New Delhi	1719104	9891170992	1719104rkp@gmail.com
		20	Mr. Ajeet Singh	Principal	SBV, Delhi Cantt , New Delhi	1720001	9810565716	1720001sbv@gmail.com
	South West-B-I	21	Dr. Sukhvir Singh Yadav	Principal	Govt. SBV, Shahbad Mohammadpur , New Delhi	1821041	9212280826	sbv1821041shahbad@gmail.com
	South West-B-II	22	Ms. Sunita Yadav	Principal	GGSSS, Paprawat, New Delhi	1822027	9250558043	ggsss1822027@gmail.com
	South	23	Ms. Sonu Nijhawan	Principal	SKV, Green Park Extension, New Delhi	1925032	1873436082	1925032gpe@gmail.com
		24	Mr. Dharam Singh Rathor	Principal	GBSSS, Aya Nagar , New Delhi	1923354	9911039933	gbsss.1923354.ayanagar@gmail.com

	South East	25	Mr. Nand Kishore Sharma	Vice Principal	Shaheed Hemu Kalani SBV, Ring Road, Lajpat Nagar, New Delhi	1925059	9555011336	principalshksbv@gmail.com
Centre-3 Link Road, Karol Bagh	Central/New Delhi	26	Mr. Sunil Kumar Shrivastava	Vice Principal	Sarvodaya Co-ed Vidyalaya, Kitchner Road, New Delhi	2026002	9650047540	kitchnerroadsv@yahoo.com , Hos2026002@Gmail.Com
		27	Ms. Gazal Chawla	Vice Principal	SV, (Co-Ed) Lal Kuan ,New Delhi	2127180	8076482033	hos2127180@gmail.com
		28	Mr.Ajay Kumar	Principal	GSBV Plot no 6 Jhandewalan, Delhi	2128002	9555543891	hos2128002@gmail.com
Center-2 C-4, Vasant Vihar, New Delhi	South East	29	Mr. RAJENDER KUMAR	Principal	GBSSS, NO.3, Badarpur, NEW DELHI	1925247	9717860730	1421rk[at]gmail[dot]com

List of Government Nurseries

The schools can collect saplings from the following 16 Government Nurseries specially identified for the purpose.

1. Kamla Nehru Ridge Nursery, Dehhi-110007 (Mob. No. 8930306852)
2. ITO Nursery, Bhairon Marg, Near Pragati Maidan, Ring Road, Delhi-110002 (Mob. No. 9992523125/ 9034343524)
3. Hauz Rani City Forest Nursery, Saket New Delhi-110017 (Mob. No. 9548729234)
4. Anand Vihar Nursery, behind ISBT, Anand Vihar Delhi-110092 (Mob. No. 9992007224)
5. Alipur Nursery, Seed Farm Road, Alipur, Delhi-110036 (Mob. No. 8800339474)
6. Brar Square Nursery, Delhi Cantt, New Delhi (Mob. No. 9540969954)
7. Badli Nursery near Badli Railway Station, Delhi
8. Najafgarh near SDM office/ Old BDO office, Delhi
9. Kharkhari Jatmat Nursery, Kapashera, Delhi (Mob. No. 9017343435)
10. Sainik Farm Nursery, Near Khanpur, New Delhi
11. Aravali Modern Forest Nursery Tuglakabad near Shooting Range, New Delhi (Mob. No. 8010508052)
12. Qutub Garh University, Jala Wala Road, Qutub Garh, Delhi-110039 (Mob. No. 9891302718/ 8178552210)
13. Pooth Kala Nursery, Sec-20 Extn., Block P-1, Krishan Vihar, Delhi (Mob. No. 9877777691)
14. Mamurpur Nursery, CH Ramdev Marg, Mamurpur, Delhi-110040 (Mob. No. 7217632956)
15. Kondli Nursery near Hindon cut, Delhi-110096 (Mob. No. 9991312119/ 9728115402)
16. Birla Mandir Nursery, Mandir Lane, New Delhi-110060 (Mob. No. 7988959484/ 9017343435).