



"Climate change is driven largely by GHG emissions. The only way to restore 'One Earth' is by preserving its lungs - 'trees'. The plantation drive in Delhi NCR is aimed at restoring the lost forests and rebuild healthy biodiversity for the region. Expansion of carbon sinks has been miniscule, but an increase in India's green cover could help the country meet its net zero target and also reduce toxic emissions in the atmosphere."

- Ajay Kumar Jain
President, TKSA
CMD, PPAP Automotive Ltd

Creating a greener world for our children

PPAP has planted over 60,000 native species saplings which will contribute to sequestration of approximately 1364 tCO₂ per annum.

Last century of rapid industrialization has led to drastic climate change and global warming. Warmer temperatures over time are changing weather patterns and disrupting the usual balance of nature. The effect of climate change is visible in Delhi where extreme summer started in March instead of May 2022. Summer temperature reached 49 degrees centigrade, winter temperature as low as 2 degrees centigrade.

PPAP was alarmed when the skies over New Delhi were dark for 11 days in a row around Diwali in 2016. While the government took numerous initiatives, the PPAP believed that the only way to restore "Only One Earth" was to protect its lungs, the trees. The restoration of natural resources through sustainable reforestation is urgently needed, as is the preservation of native species, rivers, lakes, soil, and other natural resources.

In 2019, PPAP commenced its journey of afforestation using self created SOP's at degraded forest around the 600-year-old Tughlaqabad Fort. With our 5 decades of industrial experience, we decided to make it a showcase model, which is sustainable, biodiverse, scientific, efficient and cost effective.

PPAP's not-for-profit trust Vinay and Ajay Jain Foundation (VAJF), conducting CSR activities in the field of Environment, Education and Health took the critical initiative to conduct sustainable afforestation with the plantation of native species trees. Afforestation requires huge land mass. For this, we tied up with Delhi Development Authority through CEMDE (Centre for Environmental Management of Degraded Ecosystems).

VAJF conducted its afforestation journey in six phases. Our first phase included the research & development during which we assessed our potential for contribution by visiting Yamuna Biodiversity and TKM's Ecozone. We also met with representatives of CEMDE and DBF and numerous environmentalists to understand their learning and experience of afforestation. We also studied various models including the Miyawaki Model.



In the course of our second phase, we went to nurseries in the NCR, Jaipur, Jodhpur, Dehra Dun, and Saharanpur to procure native species trees. We decided to grow the native species trees ourselves since we were unable to purchase saplings of the native species (as these are not available in the market).

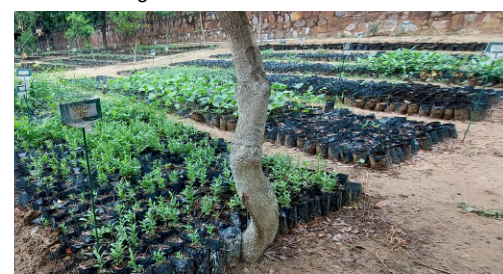
During our third phase, we decided to develop an in-house nursery and studied the seed germination process at Mangar Bani Forest and Aravalli Biodiversity Park. We started procuring and sowing seeds in fortified manure comprising of cow dung, vermicompost, chicken & goat droppings, leaf mold, garden plant waste, rice / wheat husk, sand, etc. and focused on two-year-old saplings as it reduced mortality in the field and saved cost.



During our fourth phase, we experimented by donating saplings to various organizations and participating in mass plantation drives.



We had tremendous learnings during our afforestation journey. Some of the key takeaways were preparation of standard operating procedures for plantation, significance of requirement of modern tools & equipment and how dedicated, committed and trained manpower is important for sustainable afforestation activity in hostile climatic conditions of New Delhi region.





The third-largest CO₂ emitter in the world, India intends to increase its emissions by 2030. As a responsible supplier, PPAP would like to request all TKSA supplier partners to raise awareness of the value of reforestation for a "Greener future for our children," promote the automotive industry, engage in mass plantation activities wherever you can, and work with industrial associations, residential societies, private and public parks, roads, and dilapidated open spaces to significantly increase India's green cover of nation and support the Government of India in meeting its commitments. Let's work together to beautify India with involvement of employees and families.