

Table 2: Tree planting-based fly ash dumpsite restoration

Tree species	Observations	FA dumps	References
<i>Acacia nelotica</i> , <i>Delbergia sissoo</i> , <i>Fernandoa adenophylla</i> , <i>Ficus racemose</i> , <i>Holoptelea integrifolia</i> , <i>Prosopis juliflora</i>	The tree species were reported in plantlet state at the outer side of the FA landfills. This study reflected that the FA landfill was converting towards the natural ecosystem and also fixes FA dumps to prevent erosion and add organic matter.	India.	Pandey et al., 2015
<i>Ziziphus mauritiana</i>	The concentration was found Fe, Mn, Se, Zn, Mo, Cu, Cr, Pb, Cd, Ni, As, Co in rhizosphere substratum of <i>Ziziphus</i> on FA landfills. Some elements found in fruit part of tree above prescribed limits.	India	Pandey and Mishra, 2018
<i>Prosopis juliflora</i> , <i>Pithecellobium dulce</i> , <i>Pongamia pinnata</i> , <i>A. excelsa</i> , <i>A. lebbeck</i> , <i>A. procera</i> , <i>Dalbergia sissoo</i> , <i>Eucalyptus tereticornis</i> , <i>H. integrifolia</i> , <i>Leucaena leucocephala</i> , <i>Prosopis juliflora</i> , <i>Pithecellobium dulce</i> , <i>Pongamia pinnata</i> , <i>Z. mauritiana</i>	<i>Prosopis juliflora</i> , <i>Pithecellobium dulce</i> . <i>Pongamia pinnata</i> are the dominant tree species among other tree species. In this rejuvenation study. These tree species are suitable for planted on FA landfills.	India.	Pandey et al., 2016
<i>Acacia gerrardii</i> , <i>A. sieberiana</i> , <i>A. tortilis</i> , <i>Colophospermum mopane</i> , <i>Nicotiana glauca</i> , <i>Sesbania sesban</i>	Two FA-tolerant native trees (<i>A. sieberiana</i> , <i>Acacia gerrardii</i>) preferred to the relatively faster growing than exotic <i>N. glauca</i> . <i>A. gerrardii</i> is the best performing leguminous tree and adapted to FA site.	Zimbabwe	Piha et al., 1995
<i>Acer rubrum</i> , <i>L. styraciflua</i> , and <i>Myrica cerifera</i> , <i>Populus sp.</i> , <i>P. occidentalis</i> , <i>P. taeda</i> ,	This study result showed and <i>L. styraciflua</i> and <i>P. occidentalis</i> raised the best on the wet FA landfills. FA landfills provide more suitable condition for tree plantation than local soil. favourable for tree growth than local soils.	United State.	Carlson and Adriano, 1991
<i>Tamarix tentandra</i> , <i>Populus alba</i> ,	<i>Amorpha fruticose</i> is the naturally	Serbia	Kostic et al.,

<i>Robinia pseudoacacia</i> , <i>Amorpha fruticosa</i>	colonized on FA. according to the study. The higher vitality has been observed in <i>A fruticosa</i> than any other species.		2012
<i>Prosopis juliflora</i>	<i>P juliflora</i> planted with different amendments such as blue-green algal and Rhizobium inoculation. Resulted Significant plant growths, protein content, photosynthetic pigments, activity of nitrate reductase have been identified in amended FA as compare to unamended fly ash. Phytoaccumulation of heavy metal observed in <i>P. juliflora</i>	India	Rai et al., 2004