

Table1**Case studies of potential of naturally growing plants on FA dumpsites**

Plant species	Habit	Phytoremediation	Family	References
<i>Eichhornia crassipes</i>	Herb	Phytoremediation of fly ash pond and accumulation of more Cd, Cr in root then shoot part.	Pontederiaceae	Pandey et al., 2016a
<i>Ipomoea carnea</i>	Shrub	Phytoaccumulation of metals Cd, Pb, Cu, Cr, Ni and Mn.	Convolvulaceae	Pandey, 2012a
<i>Saccharum munja</i>	Grass	Phytoextraction of metal such as Fe, Cd, Cr, Cu, Mn, Ni, Pb and Zn.	Poaceae	Pandey, 2012b
<i>Azolla carolinia</i>	Water fern	Phytoremediation of fly ash pond and accumulate heavy metals Pb, Cu, Mn, Ni, Zn, Cd, Cr, and Fe.	Salviniaceae	Pandey, 2012b
<i>Ricinus communis</i>	Energy plant	Commercial plant for phytostabilization of metals Ni, Cu, Zn, Cd and Pb in root, stem, and leaves.	Euphorbiaceae	(Pandey 2013)
<i>Lantana camara</i>	<i>Shrub</i>	Phytoaccumulation of heavy metal Fe, Mn, Cu, Pb, Cr, Ni, Cd and Fe in the stem of L camara. .	Verbenaceae	Pandey et al., 2016b
<i>Solanum surattense</i>	Herb	In this study phytoaccumulation of heavy metals such as Mn, Fe, Cu, Pd, Ni, Cr and Cd was observed roots.	Solanaceae	Pandey et al., 2016b
<i>Typha latifolia</i>	Marsh plant	Highest accumulation of Zn, Ni, and Mn in the root part. Accumulation of Pb in root and shoot within safe limits.	Typhaceae	Pandey, 2015
<i>Cynodon dactylon</i>	Grass	Accumulation of Cu in shoot part is higher than root, average amount of Mn found in both root and shoot. Higher	Poaceae	Pandey, 2015

		concentration of Ni in root than shoot part. The concentration of Co and Cr were observed below detection level		
<i>Sida cardifolia</i>	Shurb	Translocation of metals Cu, Cr, Fe, Mn, and Cd. Cd, Cr found as a toxic compound by the root of <i>S cardifolia</i> .	Malvaceae	Maiti and Jaiswal, 2008
<i>Chenopodium album</i>	Shurb	Phytoextraction of metals Zn, Ni, Co and Pb. Concentration Cd and Cr observed in root of <i>C. album</i> .	Amaranthaceae	Maiti and Jaiswal, 2008
<i>Calotropis procera</i>	Shurb	Phytoextraction for the metals (Mn, Cu, Ni, Cr) was observed in <i>C. procera</i> .	Apocynaceae	Maiti and Jaiswal, 2008
<i>Thelypteris dentata</i>	Fern	The sporophyll of <i>T dentata</i> were extracted from naturally occurring FA dumps and revegetate it, resulted the accumulation of metal Si, Fe, Pd, Cd and As higher in root.	Thelypteridaceae	Kumari et al., 2013
