

# Avenue Plantations: The Smart ECO-investment

Moonisa Aslam Dervash<sup>1</sup> and Abrar Yousuf<sup>2</sup>

<sup>1</sup>*Division of Environmental Sciences, Sher-e-Kashmir University of Agricultural Sciences and Technology,  
Shalimar, Kashmir-190025*

<sup>2</sup>*Regional Research Station (Punjab Agricultural University),  
Ballawal, Saunkhri, SBS Nagar, Punjab-144521  
E-mail; \*moonisadervash757@gmail.com*

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**Abstract**—Avenue plantations are part and parcel of urban microclimate. These comprise mainly of roadside vegetations and adjacent green spaces. The escalation of green house gases cast detrimental shadows on smooth functioning of ecosystems and carbon dioxide (from vehicular fuel) is the chief culprit in altering the microclimate of urban ecosystems. In this context, planting resilient species along the avenues is the best option to mitigate enhanced green house effect and remediate degraded soils. Besides, carbon credits can be earned by urban planners and other stakeholders. The current value of one carbon credit is 5.50 £ thus it was found that the Srinagar city possess potential to generate revenue through smart eco-investment with urban vegetation cover of 12.15% (of total geographic area) with high CO<sub>2</sub> sequestration potential.

**Keywords:** Avenue plantation, carbon dioxide, CO<sub>2</sub> sequestration, carbon credits.