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## FORESTRY'S ECONOMI CONTRIBUTION IS BEYOND JUST WOOD

Comprehensive National Level Assessment of Demand and Supply of Forest Products and Services in Pakistan



Ministry of Climate Change Government of Pakistan





## **Executive Summary**

Human species' dependence on forests is as old as the beginning of the times. Thus, the conservation of forests is important both for the existence of human beings and the protection of renewable natural resources. The forest ecosystem has an extended value-chain in the economy by providing a range of direct and indirect goods and services that benefit humankind in numerous ways. Hence, forests play a significant but often unrecognized role at multiple scales of human organization. For this very reason, Ministry of Climate Change and REDD+ Pakistan joined hands with Pakistan Institute of Development Economics (PIDE) to undertake a "Comprehensive National Level Assessment of Demand and Supply of Forest Products and Services in Pakistan".

The key findings of the study give a robust picture of forestry landscape in Pakistan. The reveals that the total wood supply in the country is estimated at 52 million m3, out of which timber is 29% (15 million m3) and fuelwood is 71% (37 million m3). Government-managed forests provide 12% of the total wood and private land supplies 88% of the total wood. Likewise, public forests provide 2% of timber and 16% of the fuelwood requirements in the country. On the other hand, plantations on private lands provide 98% of the timber demand and 84% of fuelwood demand. The average annual out-turn of timber from the government-managed forests has been estimated as 0.289 million m3 for the period 2017-2021.

The total wood supply from private land has been assessed as 45.34 million m3, out of which timber is 14.34 and fuelwood is 31 million m3. Farmlands provide 32. 59 million m3 and wasteland supply 12.75 million m3. Wood production on farmlands has increased from 7.7 million m3 per year in 1992-93 to 32.6 million m3 in 2021. Apart from this, the total wood demand in the country has been estimated at 69 million m3. Out of this, total timber demand is 19 million m3 and fuelwood demand is 50 million m3. About 65% of the timber is used by major industries and 35% is consumed by small industry. The household sector consumes 90%, the commercial sector use 7% and the industrial sector 3 % of the total fuelwood. Per capita consumption of timber is estimated at 0.084 m3 per year and fuelwood consumption is 0.240 m3.

Currently, there is a gap of 17 million m3 which is met from import and un-recorded supply from urban settings, roadside plantations, homesteads and illegal cutting of forests. However, due to the launching of mega plantation projects, such as Billion Tree Afforestation Project in KP and Ten Billion Trees Afforestation Project in the country, the gap will narrow down in the future and the country will become self-sufficient till 2035.

Regarding, industrial utilization of wood, it is estimated that the timber consumption within the industry across Pakistan is 19.122 million m3 with per capita 0.084 m3, showing an increase of 56% over the last 20 years vis-à-vis a population increase of 47% during the same time period. The study shows that there are around 293,439 small industries within the country. The analysis reveals that overall the consumption of wood in the small industry is around PKR 825 billion and the total value of products generated by small rural industries is around PKR 1,421 billion.

In parallel, Non-Timber Forest Products (NTFPs) meet the traditional income, livelihoods, health and nutritional needs of local communities as well as the raw material requirements of herbal, pharmaceutical and cosmetic industries in the country. Development of appropriate mechanisms so that these resources are not over-exploited and are conserved, enhanced and managed on a sustainable basis is important. Additionally, vast chunks of land which include rangelands, shrub and bushlands, forest lands, riverbeds and vegetated roadsides areas which are managed by the respective provincial forest departments are suffering from neglect and lack of investment. As a result, their current production levels are only 30–50 % of their production potential. This is a big loss to the economy.

The availability of complete and authentic data is a big issue in the forestry sector. This aspect will have to be paid attention to a proper assessment of forest products' demand and supply situation as well as the contribution of forestry to the GDP. As assessed by this study, the contribution of forest (products and services) to the GDP is 14.09%.

Forests and forestry sector are important for overall jobs creation, livelihoods improvement, achievement of SDGs, promotion of green economy, low-carbon economic development and contribution to GDP. Lastly, a number of policy and institutional aspects are important and therefore need to be paid attention to promote the role of the forestry sector in Pakistan and its constituent provinces and regions. These include appropriate policy and institutional ization of landscape and ecosystem-based approach to forest management, the involvement of all relevant sectors in resources conservation and sustainable management including the private sector and local communities, access to diversified financial resources through a number of mechanisms including environmental and green finance, adoption of environmental fiscal reforms and appropriate accounting mechanisms to appropriately record and reflect the contribution of forestry sector to the economy.

The key finding are represented in summarized infographics as well, in the pages to follow.







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