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| **Conservation and Sustainable Use of Biodiversity and Forests in Ethiopia – South Wollo Biodiversity and Afforestation Project** |
| Form for the Afforestation Plots Management Planning |
| Plot ID1 |  |  |  |
| Region/Zone/Woreda/ | Kebele | Plot |
| **Owners****(names/contacts)** | 2 |
| **Gross Size (ha)** | 3 | **Plantable**Area (ha) | 4 | **Site Classification** (1-3 and + or non + Site) | 5 |
| **Location** **description** |  |
| **Afforestation Model** | Type | Name6 | % | Name | % | Name | % |
| Fast grow |  | 7 | 8 | 9 | 10 | 11 |
| Long rotate | 12 | 13 | 14 | 15 | 16 | 17 |
| Indigenous | 18 | 19 | 20 | 21 | 22 | 23 |
| **Required surviving seedlings per ha** | Type | Target 1st monitoring | Target 2nd monitoring |
|  | N/ha | Total (N/ha X ha) | N/ha | Total (N/ha X ha) |
| Fast growing | *1500* | 24 | *1406* | 27 |
| Long Rotation | *300* | 25 | *281* | 28 |
| Indigenous | *200* | 26 | *188* | 29 |
| **Production expected next** **10 years** | Gross Production estimation (only one production type (good, medium or low) can be used and filled per afforestation plot) Prices estimated after harvest and yarding at road side |
| Species Type | Annual Production*m³/ha/year* | Total 10 Year Gross Production |
| Wood(m³ /year X ha X 10 X %)  | Money(total m³ X price per m³) |
| Fast growing (good) | *25* |  |  |
| Fast growing (medium) | *20* |  |  |
| Fast growing (low) | *15* |  |   |
| Total Timber production after 10 years |  |  |
| Long Rotation (good) | *20* |  |  |
| Long Rotation (medium) | *15* |  |  |
| Long Rotation (low) | *10* |  |  |
| Total long rotate wood stocks 10 years |  |  |
| Indigenous trees (good) | *10* |  |  |
| Indigenous trees (medium) | *7* |  |  |
| Indigenous trees (low) | *4* |  |  |
| Total Indigenous wood stocks 10 years |  |  |
| **Labor Investments needed for establishment (excluding harvesting and related activities)** | Average estimation of labour input (tick Y if applicable, N if not applicable) |
| Y/N | Work Type | Difficulty Type / Details | PD / ha | Total PDs(PD/ha X ha) |
|  | Clearing |  --  | 20 |  |
|  | Ploughing |  --  |  |  |
|  | Terracing, Water harvesting | Class 1 - minimum measure site | 450 |  |
|  |  | Class 2 – moderate measure site | 780 |  |
|  |  | Class 3 - intensive measure site | 1260 |  |
|  | Pit preparation | Standard site 2500/ha | 42.5 |  |
|  |  | Plus site 3333/ha | 56.5 |  |
|  | Planting | Incl. transport and fertilizer appl. standards site | 42.5 |  |
|  |  | Incl. transport and fertilizer appl. standards site | 56.5 |  |
|  | Weeding year 1 | Standard site 2500/ha | 17.5 |  |
|  |  | Plus site 3333/ha | 23.5 |  |
|  | Coppice management | All site similar | 12 |  |
|  | Weeding year 2-5 | Standard site 2500/ha | 27.5 |  |
|  |  | Plus site 3333/ha | 36.5 |  |
|  | Maintenance | Thinning (fast grow), pruning & general maintenance | 62 |  |
| Total labour input in Person Days (PDs) |  |
| **Investment in cash money** | **Seedling Cost – Easy conditions** |
| Tree type | Number / ha(n/ha) | Cost per seedling(Birr) | Total Cost (Birr)(number /ha X cost per seedling X ha) |
| Fast growing | 1 875 |  |  |
| Long rotation | 375 |  |  |
| Native tree | 250 |  |  |
| Fertilizer /seedling | 2500 |  |  |
| Total Cost Seedlings |  |
| **Seedling Cost – Difficult conditions** |
| Tree type | Number / ha(n/ha) | Cost per seedling(Birr) | Total Cost (Birr)(number /ha X cost per seedling X ha) |
| Fast growing | 2 500 |  |  |
| Long rotation | 500 |  |  |
| Native tree | 333 |  |  |
| Fertilizer /seedling | 3333 |  |  |
| Total Cost Seedlings |  |
| **Signatures to confirm that the management plan was agreed** |
| Date:30 | Signature Technician / DA |  |
| Signature Owners: |  |
| **Submitted** to WCU (date) | 31 | **Approved** by (signature) |  |
| **Archived by** (name) |  | **Archive date** | 32 |

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| **Feld Nummer** | **FeldName** | **Feld Inhalt** | **Feldtyp** |
| 1 |  | Plot ID | 12 digit number, integer |
| 2 |  | Owner Names | Text 100 letters |
| 3 |  | Gross Size | Number, 2 digits after comma |
| 4 |  | Plantable Size | Number, 2 digits after comma |
| 5 |  | Site Classification | Text, Selection field, 1, 1+, 2, 2+,3,3+ |
| 6 |  | Model-Fast grow-1-name | Text, 25 letter |
| 7 |  | Model-Fast grow-1-percent | Number, integer, % |
| 8 |  | Model-Fast grow-2-name | Text, 25 letter |
| 9 |  | Model-Fast grow-1-percent | Number, integer, % |
| 10 |  | Model-Fast grow-3-name | Text, 25 letter |
| 11 |  | Model-Fast grow-3-percent | Number, integer, % |
| 12 |  | Model-Long Rotate-1-name | Text, 25 letter |
| 13 |  | Model- Long Rotate-1-percent | Number, integer, % |
| 14 |  | Model-Long Rotate-2-name | Text, 25 letter |
| 15 |  | Model-Long Rotate-2-percent | Number, integer, % |
| 16 |  | Model-Long Rotate-3-name | Text, 25 letter |
| 17 |  | Model-Long Rotate-3-percent | Number, integer, % |
| 18 |  | Model-indigenous-1-name | Text, 25 letter |
| 19 |  | Model-indigenous-1-percent | Number, integer, % |
| 20 |  | Model-indigenous-2-name | Text, 25 letter |
| 21 |  | Model-indigenous-2-percent | Number, integer, % |
| 22 |  | Model-indigenous-3-name | Text, 25 letter |
| 23 |  | Model-indigenous-3-percent | Number, integer, % |
| 24 |  | 1st monitor target fast grow total N trees | Number |
| 25 |  | 1st monitor target long rotate total N trees | Number |
| 26 |  | 1st monitor target indigenous total N trees | Number |
| 27 |  | 2nd monitor target fast grow total N trees | Number |
| 28 |  | 2nd monitor target long rotate total N trees | Number |
| 29 |  | 2nd monitor target indigenous total N trees | Number |
| 30 |  | Plan agreement Date | Date |
| 31 |  | Plan submission to WCU Date | Date |
| 32 |  | Archive Date | Date |