

PROJECTS SUPERVISION AND IMPLEMENTATION MILESTONES

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**WHAT WE DO
@ DRD THAT
REQUIRE
CLOSE
SUPERVISION
AND
IMPLEMENTATION
MILESTONES**

**RURAL
ROADS**

Construction
of:

- Asphaltic road surfacing
- Interlocking pavement
- Earth/farm road

**RURAL
WATER AND
SANITATION**

Provision
of:

- water treatment plant
- solar/windpowered boreholes
- Electrical/motorized boreholes

**RURAL
ELECTRIFICATION**

Provision/installation of:

- All-in-one solar street light
- Solar inverter energy system

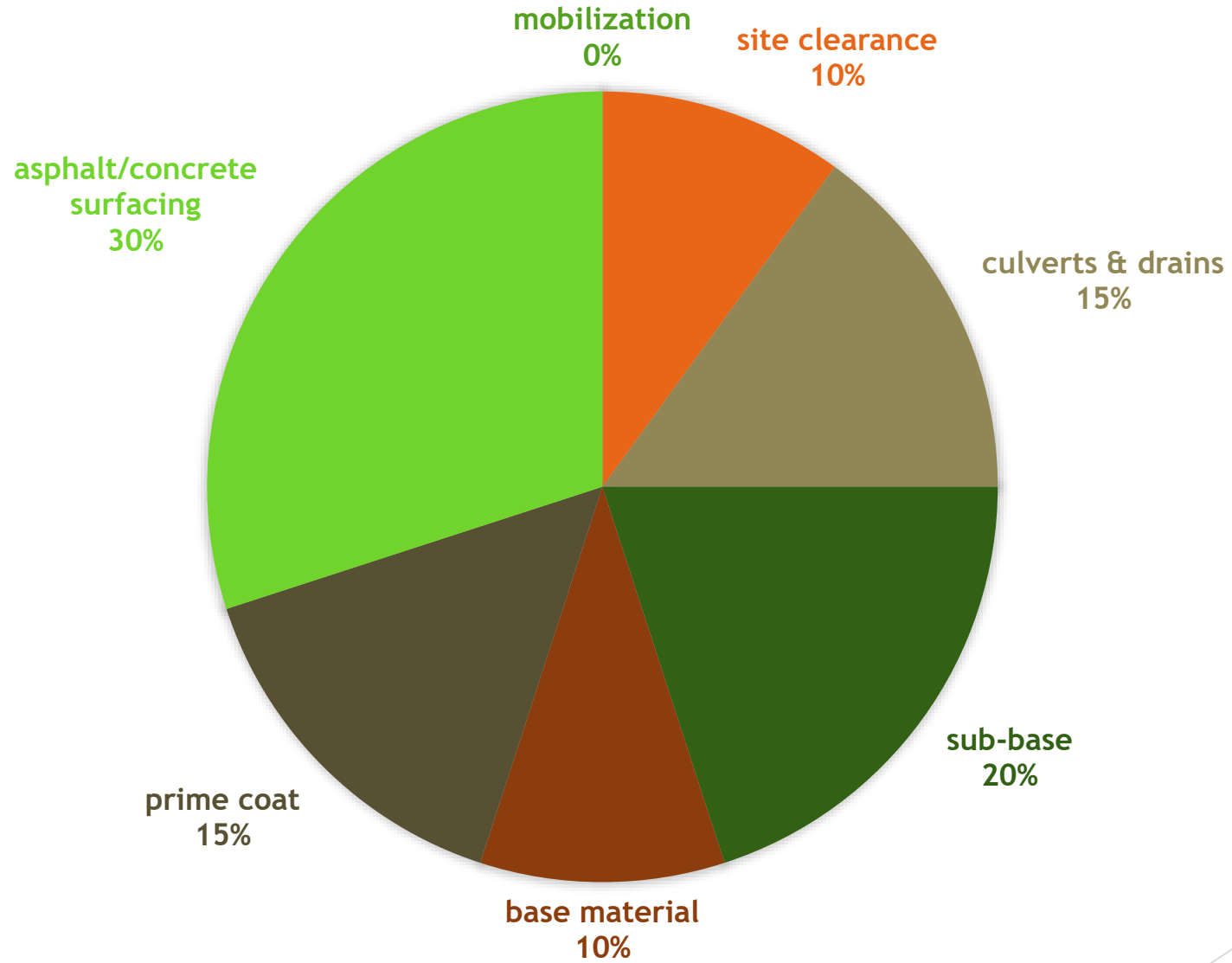
**Rural
Farmers
Market**

**Green
Houses**

STAGES IN CONSTRUCTION OF RURAL FEEDER ROADS

- ✓ Mobilization of plants and equipment
- ✓ Site clearing including excavation of unsuitable materials below formation level (Top soil)
- ✓ Construction of culverts (Box & Ring) and drains (V or U-shape)
- ✓ Provision of:
 - sub-base material
 - base material
 - prime coat
 - asphaltic/concrete surfacing

PERCENTAGE ACHIEVEMENT ON RURAL ROAD CONSTRUCTION



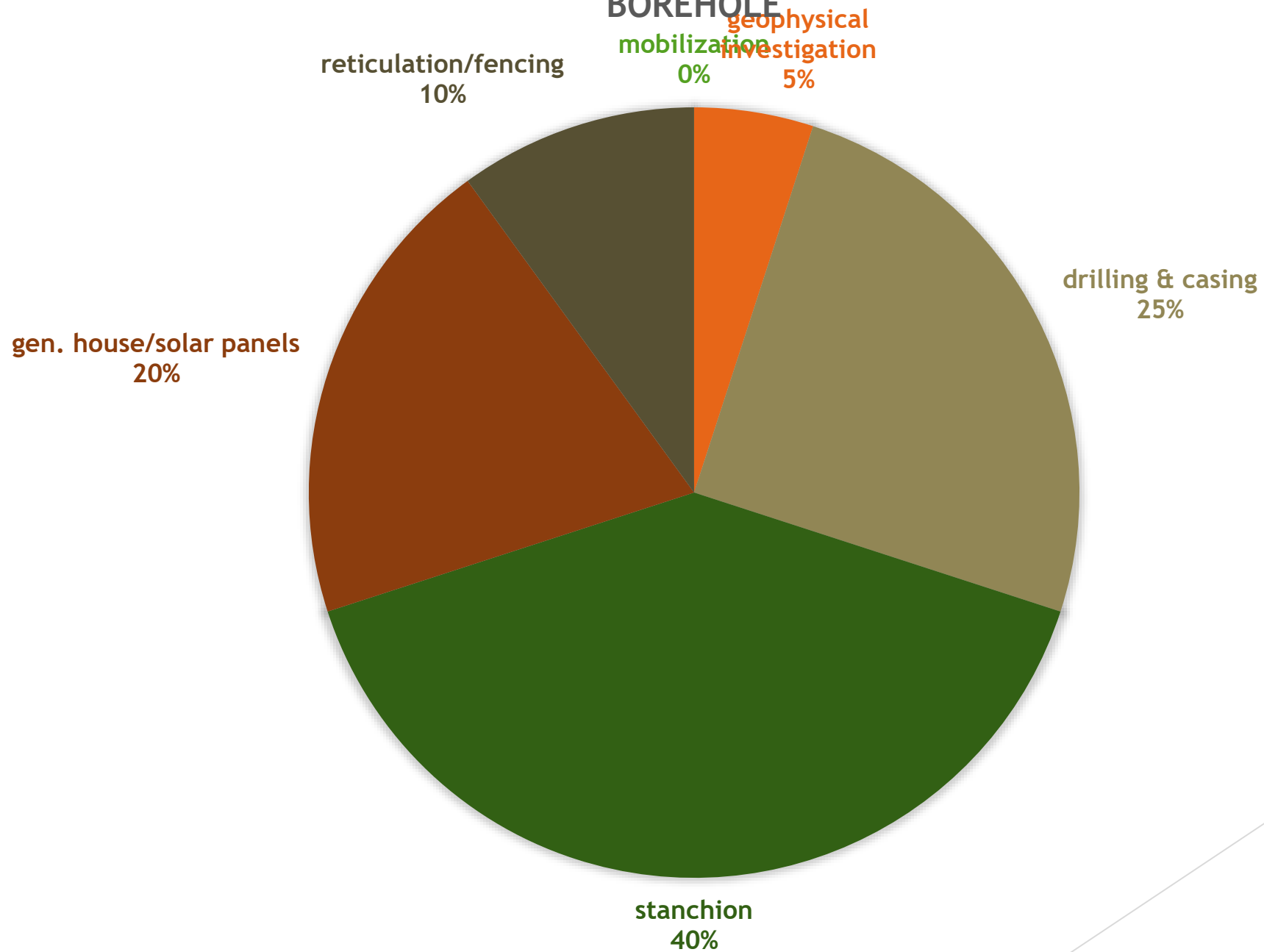
TYPICAL RURAL ROAD PROJECT



STAGES IN CONSTRUCTION OF MOTORIZED/SOLAR POWERED BOREHOLE

- ✓ Mobilization of plants and equipment
- ✓ Geological survey
- ✓ Drilling and casing
- ✓ Construction of stanchion
- ✓ Construction of generator house and provision/installation of solar panels
- ✓ Fencing and reticulation

PERCENTAGE ACHIEVEMENT ON PROVISION OF SOLAR/MOTORIZED BOREHOLE



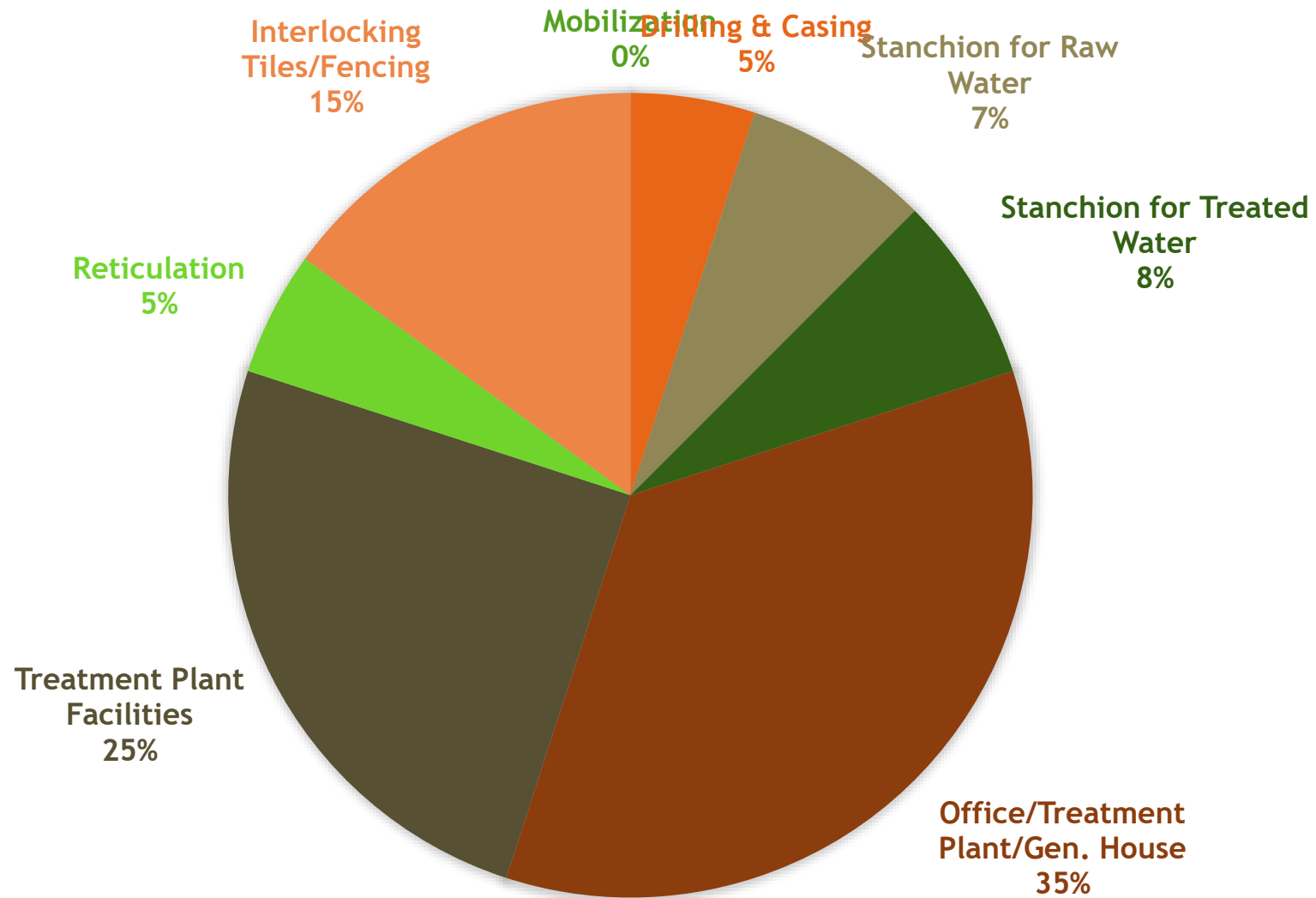
TYPICAL RURAL WATER PROJECT



STAGES IN CONSTRUCTION OF WATER TREATMENT PLANT

- ✓ Mobilization of plants and equipment
- ✓ Drilling and casing
- ✓ Construction of stanchion for raw water
- ✓ Construction of stanchion for TREATED water
- ✓ Construction of office, treatment plant and generator house buildings
- ✓ Provision of treatment equipment (i.e Sand bed filter, activated charcoal system, reverse osmosis and chemical dosage pumps)
- ✓ Reticulation
- ✓ Provision of interlocking tiles and fencing

PERCENTAGE ACHIEVEMENT ON PROVISION OF WATER TREATMENT



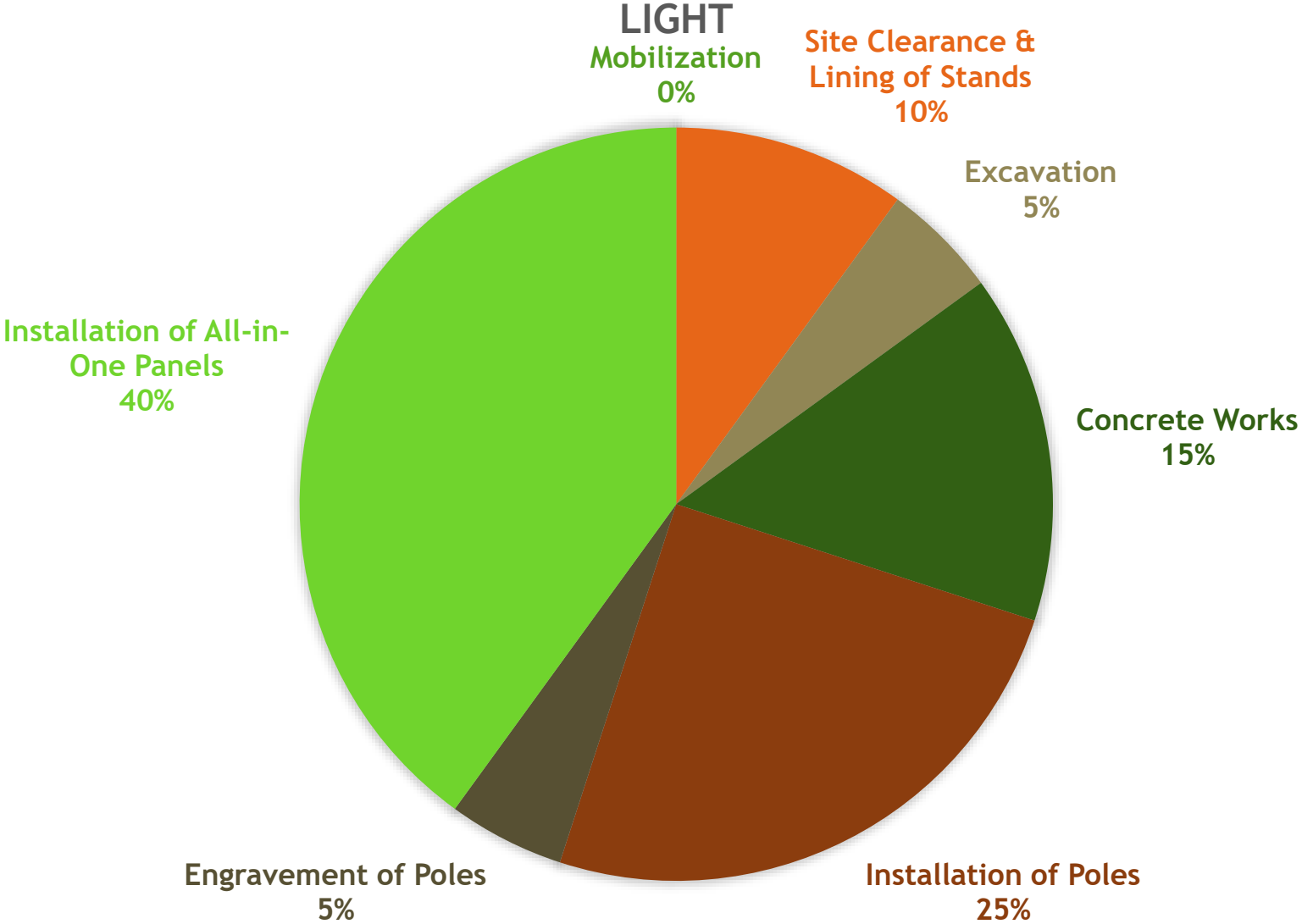
TYPICAL RURAL WATER TREATMENT PLANT PROJECT



STAGES IN CONSTRUCTION OF SOLAR STREET LIGHT

- ✓ Mobilization of plants and equipment
- ✓ Site clearance and lining of pole stands
- ✓ Excavation
- ✓ Concrete works
- ✓ Installation of poles
- ✓ Engravement of poles
- ✓ Installation of panels

PERCENTAGE ACHIEVEMENT ON PROVISION OF SOLAR STREET



TYPICAL RURAL SOLAR LIGHT



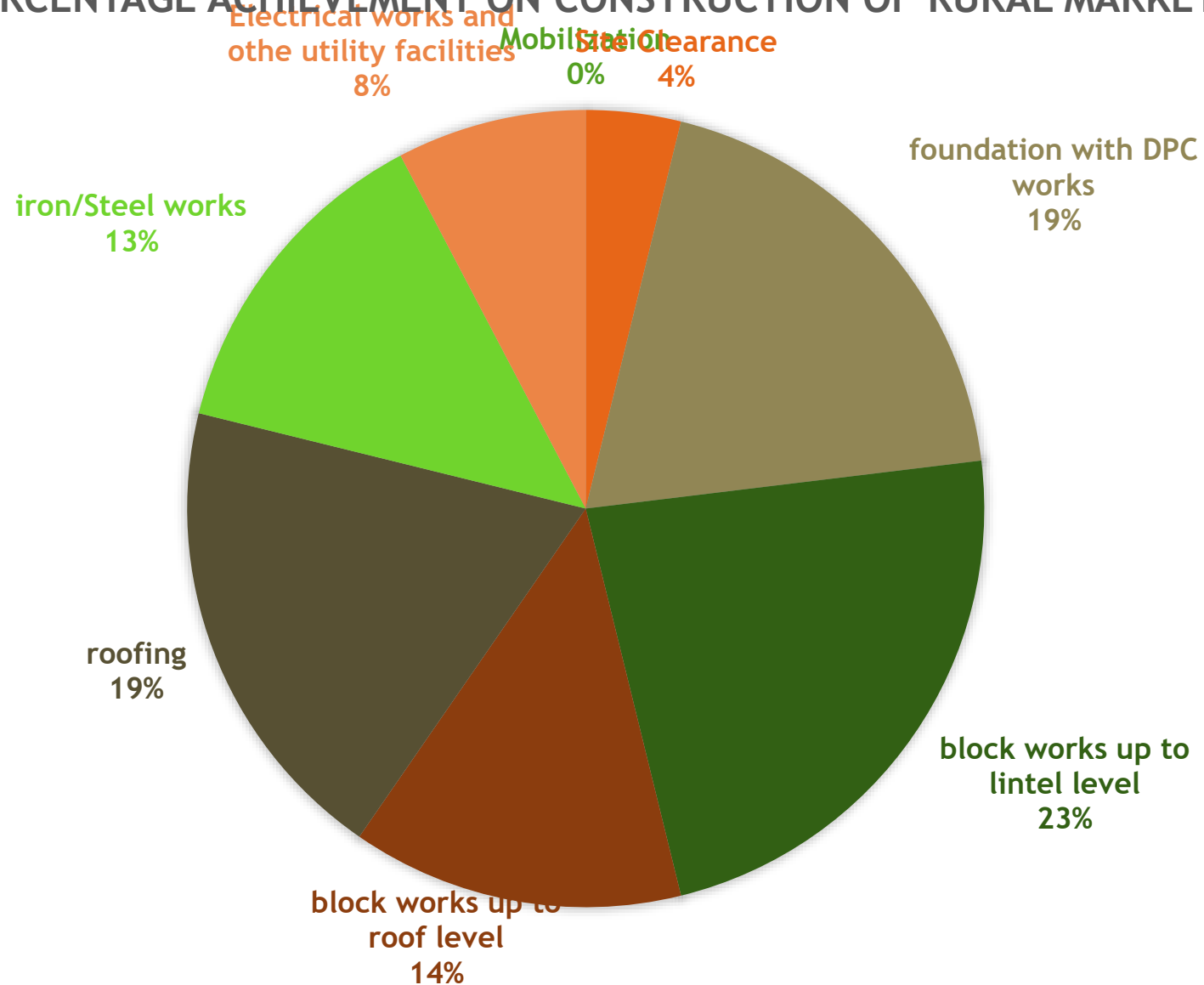
STAGES IN CONSTRUCTION OF RURAL MARKET

- ✓ Mobilization of plants and equipment
- ✓ Site clearance
- ✓ Complete foundation with DPC works
- ✓ Complete block works up to lintel level
- ✓ Complete block works up to roof level
- ✓ Complete roofing
- ✓ Complete iron/Steel works (doors, windows, burglary etc)
- ✓ Complete Electrical works and other utility facilities
- ✓ Complete plastering works
- ✓ Complete Tiles Works
- ✓ Complete borehole with Reticulation
- ✓ Complete provision of External Electrical Works

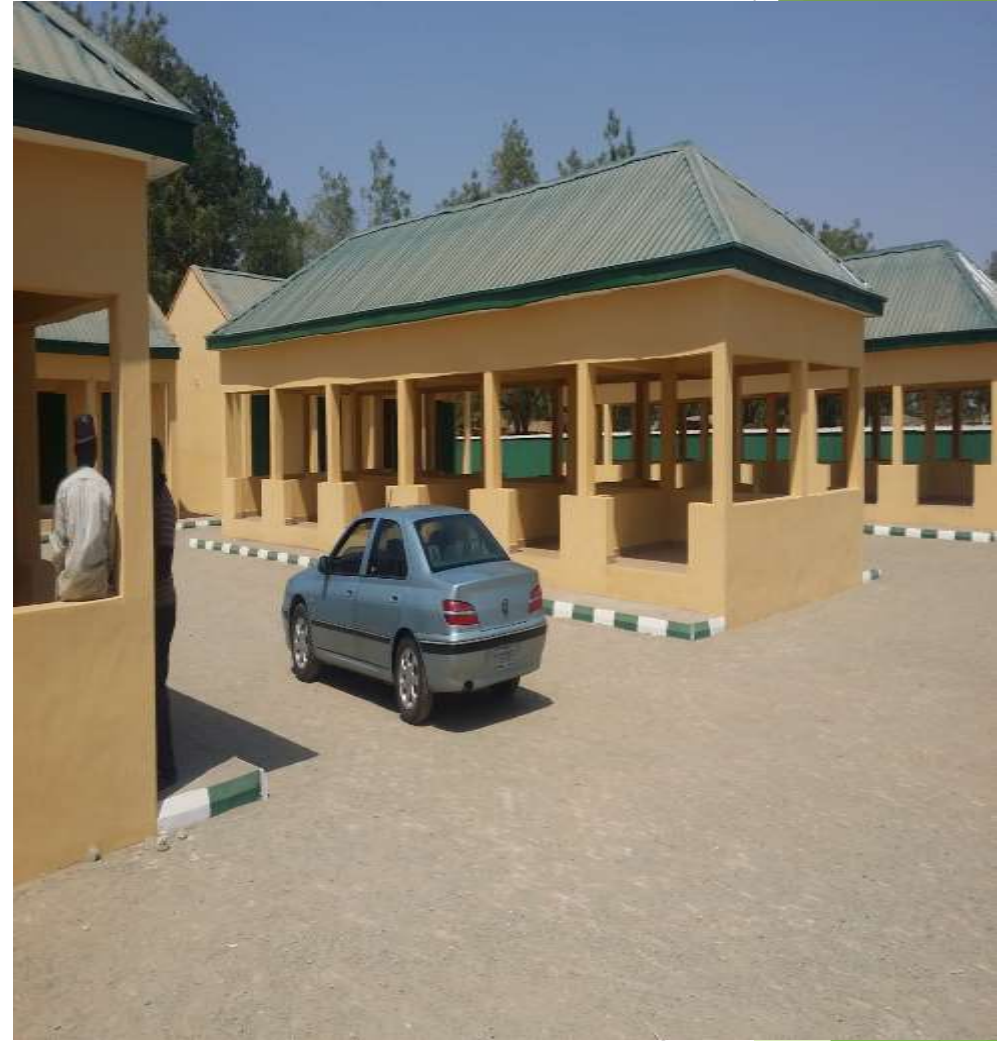
STAGES IN CONSTRUCTION OF RURAL MARKET

- Complete inter-locking tiles
- Complete painting works

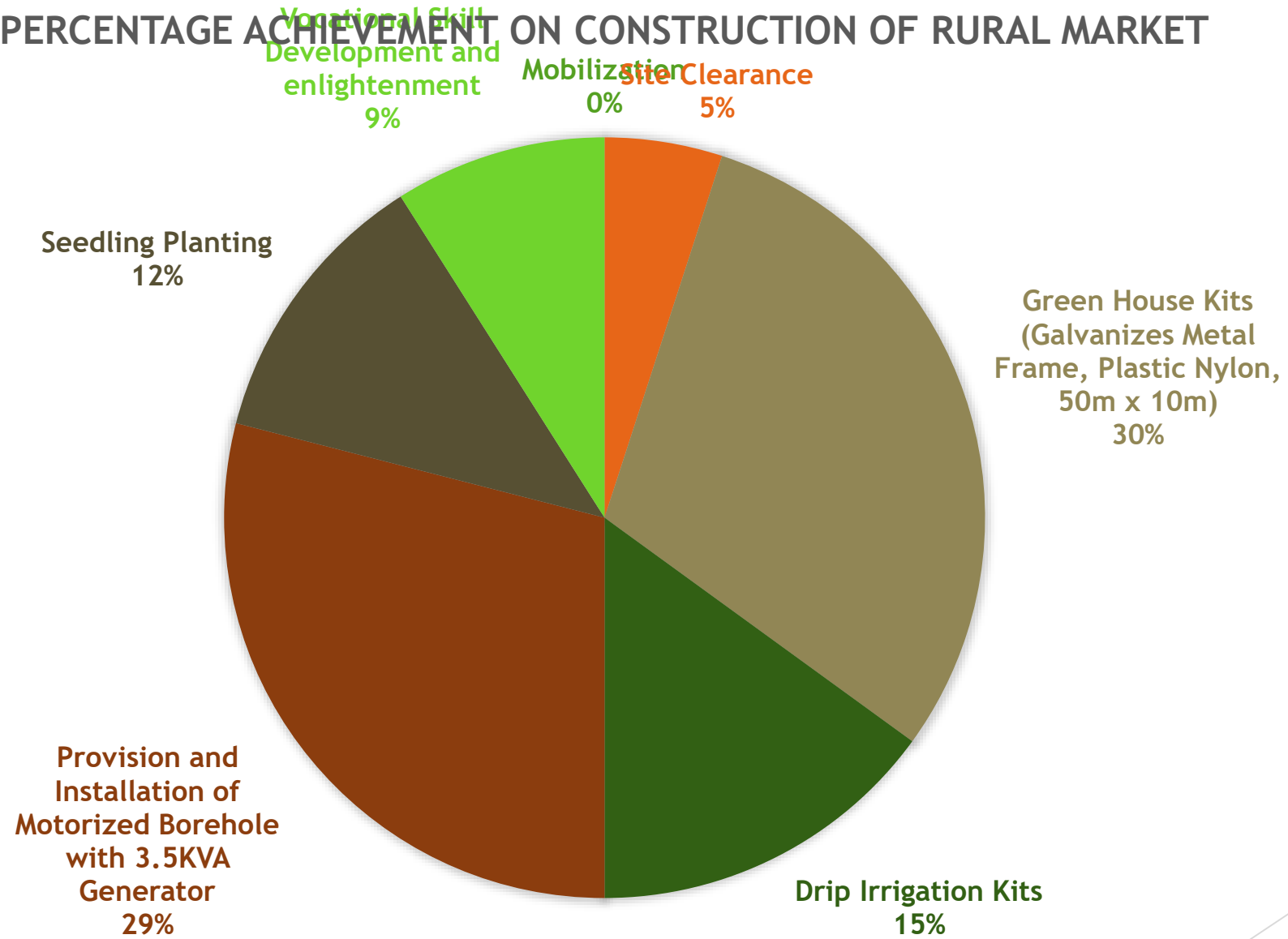
PERCENTAGE ACHIEVEMENT ON CONSTRUCTION OF RURAL MARKET



TYPICAL RURAL RURAL MARKET PROJECT



PERCENTAGE ACHIEVEMENT ON CONSTRUCTION OF RURAL MARKET



STAGES IN CONSTRUCTION OF GREEN HOUSE TECHNOLOGY

- Green House Kits (Galvanizes Metal Frame, Plastic Nylon, 50m x 10m)
- Drip Irrigation Kits
- Provision and Installation of Motorized Borehole with 3.5KVA Generator
- Seedling Planting
- Vocational Skill Development and enlightenment

TYPICAL GREEN HOUSE PROJECT



WORK PLAN: (every contractor must provide a work plan to enable timely and proper supervision and monitoring)

- Programme of work with timeline
- Itinerary of work with timeline
- Stages/levels of work timeline

IMPORTANCE OF WORK PLAN:

- i. Milestone coverage
- ii. Facilitates supervision and monitoring
- iii. Provides information on progress of work done
- iv. Provides information on lag

CONTENT OF WORKPLAN:

- Activities
- Duration
- Progress
- lag

SUPERVISION:

What to supervise under roads:

- Topsoil removal to appropriate depth
- Road formation and shaping
- Laterite quality, thickness and aggregates
- Laterite compaction
- Concrete mix (4:2:1)
- MC1 / MC2 quality
- Asphalts mix
- Culverts gradient
- Insist on specifications, etc

What to supervise under boreholes:

- Geophysical report
- Stanchions specifications
- Depth specification
- Submersible pump specification
- Tank specification (quality and capacity)
- Fetching bay must be properly tiled
- Proper development of borehole and Pump test
- Water quality test report
- Solar panel/generator should be of good quality

What to supervise under Rural Farm Market:

- Site location
- Blocks quality
- Interlocking tiles quality

Supervisor's working tools:

- Measuring tape
- Hammer
- GPS
- Writing material (field report, videos, photographs, etc)
- Helmet, Boot and other protective gadgets



THANK YOU