Scope of Works

Construction of Agro Processing Hub

Project Title: Construction of Proposed Agro Processing Hub

Project Location: Jema'a L.G.A, Kaduna State.

Client/Owner: Cooperazione Internazionale (COOPI)
Contractor: ……
Date:

1. Introduction and Objectives

The objective of this Scope of Work is to define the extent of works, materials, equipment, and services required for the complete construction of a functional, agro processing hub in accordance to the specifications and unit as described in the attached drawings and Bill of Quantities.

2. General Scope and Deliverables

The Contractor shall provide and place all items included in the BOQ and Design Drawings. The works shall include provision of materials and labour to deliver a complete, ready-to-use agro processing unit, including:

- Site preparation.
- Erection of substructure and superstructure: RCC Foundation, RCC Pedestals, RCC Plinth Beams, Slab, CMU Walls.
- Erection of Steel portal frames and bracing
- Construction of Bricks cladding
- Installation of roofing system.
- Final finishing and clean-up.
- Construction of the security house and wash.
- Construction of perimeter fencing (provide 120m)
- Installation of 50KVA Solar power system
- Installation of agro Agro processing machines
- Drilling of borehole and 5000L overhead tank
- Construction of Cold Room(7*8*4m)

3. Detailed Scope of Work

3.1 Site Preparation

3.1.1 Clearing and Setting out

The general area of the facility measuring approximately 2,500 sq. meters to be cleared in preparation for general excavation and sett out according to designed levels and plan.

3.1.2 Earthworks

The building footprint shall be excavated as shown on the drawings. All earthworks; cut, fill, provision and disposal shall be as provided in the approved BOQ except otherwise revised and approved by the infrastructure Development Engineer/Project Manager.

3.2 Structural Works

3.2.1 Structural Steel works

Structural steel sections (Columns Beams and Braces) shall be fabricated, coated, painted (Grey color) and erected with Bolted connections as shown on drawing and provide welds where applicable.

3.2.2 Foundation and Concrete works

Provide place and properly cure RCC in-situ Concrete mix 1:2:4 – 20mm aggregate to foundations, pedestals, plinth beams and slabs of quantity and grade as shown on drawing and BOQ

3.2.3 Roof Framing

Provide and install SADEF-Z lightweight galvanized purlins including all jointing and connections (packing piece, bolts etc.) as necessary in Framing.

3.2.4 Roof Sheeting

Supply and fix High-Quality Sheets 0.7mm Queensway aluminum long span corrugated roofing sheet or equal approved roofing sheets from an approved manufacturer; sheets fixed to light gauge purlins with galvanized hook nails and bituminous washers (all in accordance with the manufacture's detail's) - measured net rate to include fixing bolts, ridge caps and gutters.

3.2.5 Access Ramp

Construct access ramp for disabled using Plain in-situ Concrete mix 1:2:4 – 20mm aggregate for ramp footing 450 X 4000mm and Concrete mix 1:2:4 – 20mm aggregate Cast-in situ in ramp.

Provide hollow sandcrete blocks with compressive strength 2.5N/mm2 bedded and jointed in cement and sand (1:6) for the block wall of access ramp. Backfill imported laterite and compact appropriately.

Install handrail 50mm x 4mm thick Galvanized steel round pipe in 600mm concrete in ramp and stairs, joined at edges with steel elbow and Tees and all other accessories 750mm height.

3.3 Electrical Works

Provide and install all electrical fittings itemized on the BoQ including Electrical Wiring, DBs and Installations, Lighting (LED) bulbs, Lighting (Florescence) bulbs, Lamp holders, arrestor and earthings, PVC Conduit pipes, Electrical Sockets, Electrical Switches etc. First grade

Nigerian copper cables should be used.

Provide and install fully functional 50KVA solar system excepted otherwise reviewed and approved by the Project Engineer/ Project manager.

3.4 Plumbing and Sanitation Works

Provide and install all plumbing fittings as specified on the BoQ including Water Closet System Installations, Wash hand basin Installations, Shower installations, 4" Pvc floor drain installations.

Provide water borehole with sum pump, stanchion support and 5000L tank.

Sanitary works also include the safe and healthy evacuation of all filled-up soak away pits.

3.4.1 Painting

Painting and decorating to walls, ceilings shall be measured in meter square. Colour is as specified by the Engineer. Paints shall be supplied to site in sealed containers and approved by the Engineer. Site mixing shall not be permitted. The contractor's rates shall include supply of all materials, workmanship, samples, surface preparation by applying 3mm thick of plaster of Paris screed on walls, protection of painted surfaces, application to all heights as required of works, and all other requirements as directed by the engineer. All paint shall be 'Berger' or approved equivalent. The price shall include all narrow widths and reveals of opening, sides of columns and window sills.

Apply One white Undercoat and Two-Coloured Finishing Coats of emulsion Paint for wall surfaces; internally & externally.

3.5 External works

3.5.1 Perimeter fencing

Provide and place perimeter fencing; 3mm low carbon steel Mesh fencing panels pvc coated with all accessories to manufacturer’s details. Fence shall not be less than 1.5m height from NGL. And provide fencing for a 30*30m perimeter.

3.5.2 Apron

Provide reinforced concrete apron as shown on drawing to Engineer’s approval; in-situ Concrete mix 1:2:4 – 20mm aggregate

3.6 Equipment Installation

Procure and install processing equipment as specified on the BoQ.

All equipment most be verified and certified by the Infrastructure Development Engineer before installation.

Test running of the equipment shall be carried out to ascertain their functionality.

3.7 Deliverables and Reporting

The Contractor shall submit the following reports and documents to COOPI:
a. Construction Report: Progress reports with geotagged pictures
b. Invoice based on the approved Bill of Quantities (BoQ) and actual works completed
c. Supplier Invoice and receipts
d. Final Invoice based on the approved Bill of Quantities (BoQ) and actual works completed.

3.8 Training

1. Training of the Employer's designated personnel in the operation and maintenance of the installed system. Testing and commissioning presence and participation, training operators on maintenance and functionality. Hand over O&M manuals, give agreed service of Equipment warranties, Deliver an As-built documentation drawing and document, Handover all procured belongings to stakeholders/community.

4. Exclusions (Items NOT in Scope)

Any Item within the scope of works can be excluded or reviewed by the employer. However, the following items are explicitly excluded from this Scope of Work and are the sole responsibilities of COOPI:

a. Connection to external electricity meter or main grid supply.

b. Site handing over to the contractor and taking over from the contractor.

c. All costs related to obtaining state/local government permits or approvals.

5. Cash for Work

a. The contractor shall only mobilize to site with his qualified skilled engineers and technicians

b. All unskilled works shall be carried out through the cash for work modality engaging program participants to ensure community participation, ownership and improve livelihood except otherwise approved by the employer.

c. The scope of unskilled works includes but not limited to excavation works, mason support, carpenter support, iron bender support, painter support, security guard on site etc.

6. HSE, CESMP QC and Completion

The contractor shall provide Construction Environmental and Social Management Plan and shall follow the approved plan alongside Health and safety measure

a. Safety of the contractor’s personnel and equipment/materials on site is the exclusive preserve and responsibility of the contractor.

b. The Contractor shall not employ under age children as part of His/her workforce.

c. The Contractor will ensure full compliance with all safety measures, policies and protocols by all site workers and visitors to the site; including use of PPEs by all workers on site, and also employ control measures for unauthorized access to site inclusive of children.

d. **Inspection and Quality control**: Works completed at milestones shall be inspected, quantified and certified by the employer’s Infrastructure Development Engineer.

e. **Defects Liability Period (DLP):** The Contractor shall be responsible for addressing

the Engineer's snag list and rectifying any defects identified in materials or workmanship for a period of 3 months following the issuance of the Certificate of Practical Completion. Retention fee (10% of the total contract sum) shall be released to the contractor after the expiration of the DLP upon certification by COOPI's Infrastructure Development Engineer.

f. **Environmental Management**: The Contractor shall provide and follow the Construction Environmental and Social Management plan (CESMP) before initiating any activity on site.

The contractor shall also remove all debris, surplus materials, and construction waste and leave the site clean and tidy upon completion and also ensure reclamation of borrow pits.

7. TESTING REQUIREMENT

CONSTRUCTION REQUIREMENTS

- Building dimensions must be as specified in drawings
- Entire floor agea should be polished concrete, nonslip, suitable for storage.
- Foundation, DPC, columns, beams and roof trusses and sheet structure are completed and free from any sign of defect or failure
- Floors exposed to wet areas have adequate drainage.
- Walls are free from cracks and properly finished
- Roof coverings, gutters, downpipes and rainwater drainage are functional.
- Doors, roller shutters, loading bays and windows operate properly.
- External pavements, vehicle paths, walkways and loading areas are complete.
- Pest-entry points, roof gaps and openings are adequately sealed or protected.
- Toilets, changing rooms, handwashing points and staff facilities are operational.