

Renovation of Guli BHC, Panjab District, Bamyan Province



LIST OF ACTIVITIES IN SCOPE

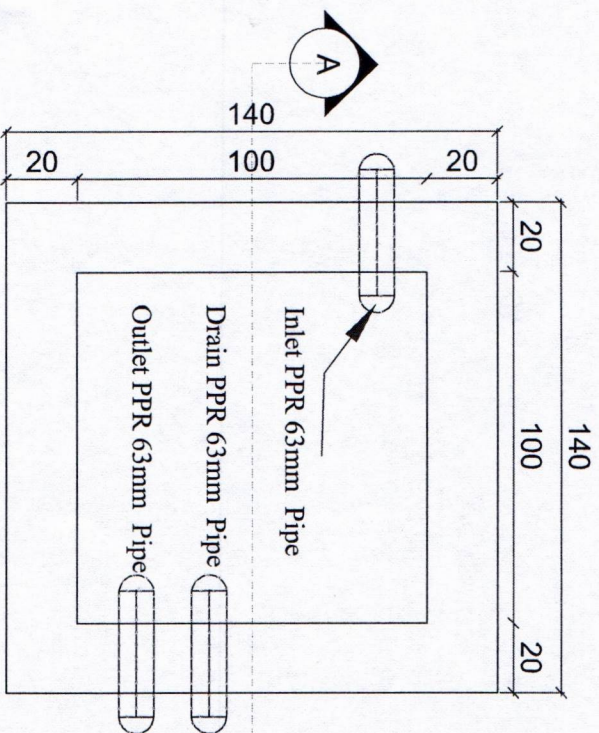
Activities	
1	Construction of RCC Water Collection Box
2	Repairing of Water supply and waste water system of clinic

DATE: AUGUST, 2026

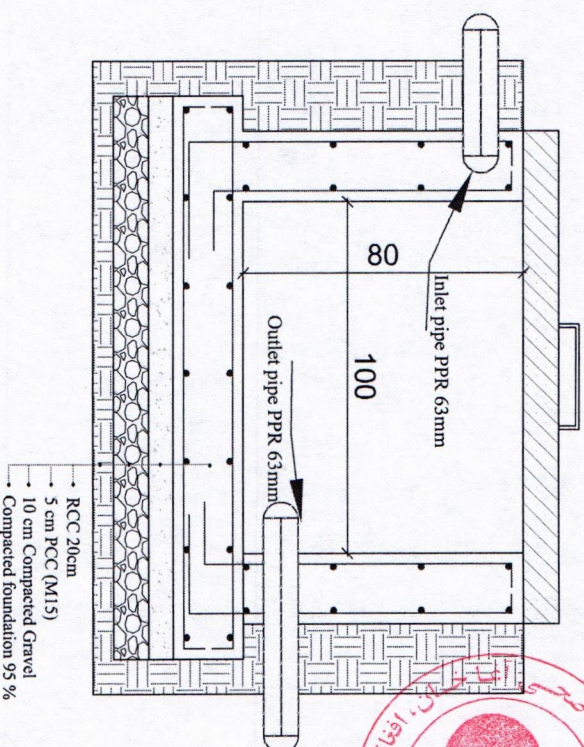


Aga Khan Health Services, Afghanistan





Plan of Spring Collection Box



Section (A-A) of Spring Collection Box



01 | Water collection Box plan and Detail



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AKHS, A		DESIGNED BY		REVIEWED BY		AKHS, A		DATE		1		DISTRICT		HERI CO-FINANCING	
		DRAWN BY		APPROVED BY		AKHS, A		DRAWING NO.				VILLAGE		DRAWING TITLE	
		ENG. M. JAN SULTAN										BAMYAN		Ministry of Public Health (BAMYAN PROVINCE)	
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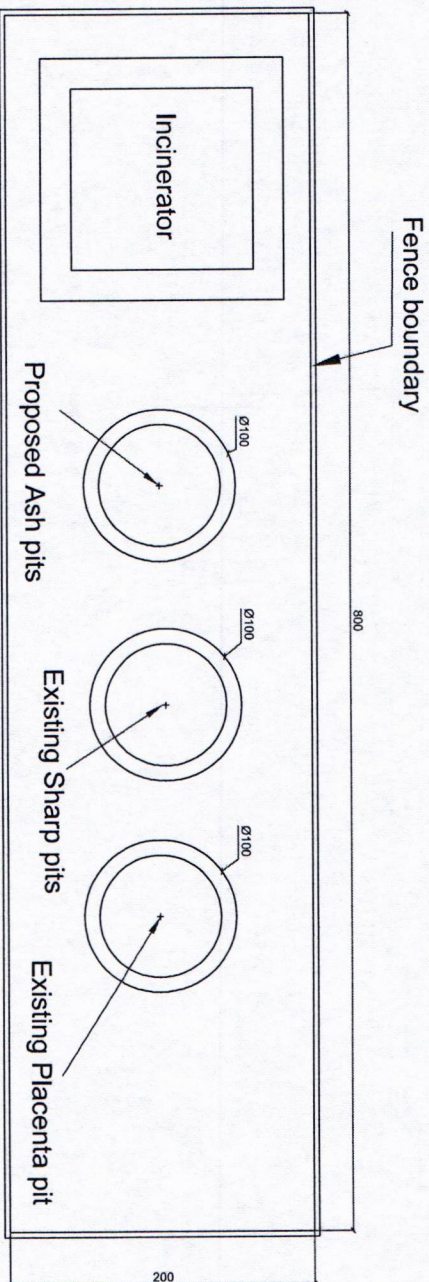
Renovation of Sangi Sokhta SHC, Waras District, Bamyan Province

LIST OF ACTIVITIES IN SCOPE

Activities	
1	CONSTRUCTION OF OF INCINERATOR
2	CONSTRUCTION OF NEW ASH PIT
3	TILING WORK AND SOME MINOR ELECTRICAL WORK

DATE: July, 2026





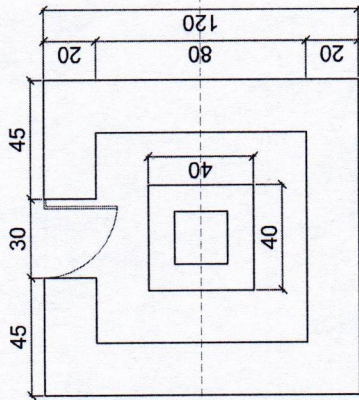
Plan of Incinerator with Pits

01 | Plan of Incinerator with Pits

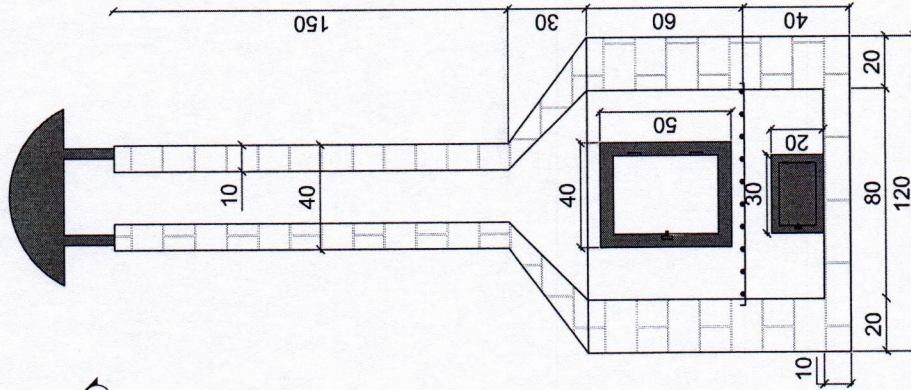


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AKHS, A	SURVEYED BY		CHECKED BY	AKHS, A	SCALE		SHEET NO.	PROVINCE		PROJECT NAME		Ministry of Public Health (BAMYAN PROVINCE)	
	DESIGNED BY	ENG. M. JAN "SULTAN"	REVIEWED BY	AKHS, A	DATE	23-07-2026		DISTRICT	BAMYAN	HERI CO-FINANCING			
	DRAWN BY	ENG. M. JAN "SULTAN"	APPROVED BY	AKHS, A	DRAWING NO.		VILLAGE	Seng Sohra	DRAWING TITLE	Incinerator			

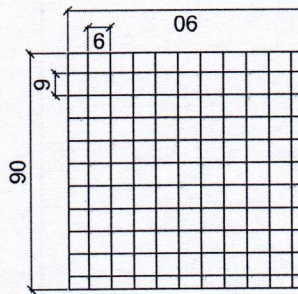
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PLAN OF INCINERATOR



Section(A-A)



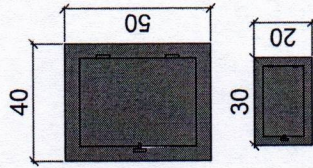
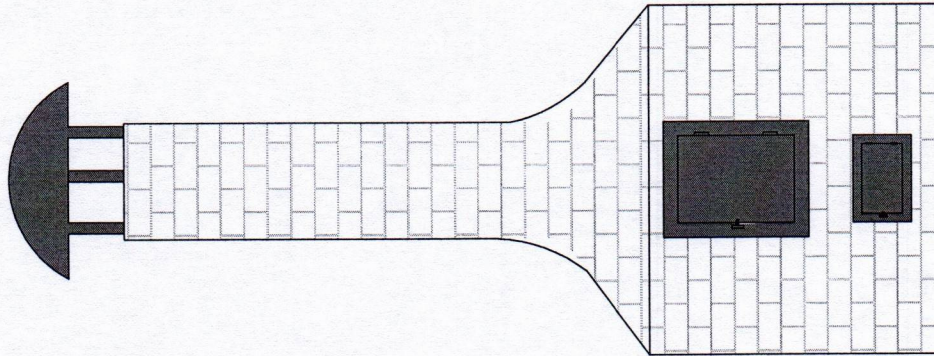
Reinforcement detail of mesh for incinerator



01 | Plan and detail of incinerator

AGA KHAN HEALTH SERVICES, AFGHANISTAN AKHS, A	SURVEYED BY	CHECKED BY		AKHS, A	SCALE	SHEET NO. 29-07-2026	PROVINCE DISTRICT VILLAGE	PROJECT NAME HEIR/ CO-FINANCING DRAWING TITLE Incinerator	Ministry of Public Health (BAMYAN PROVINCE)
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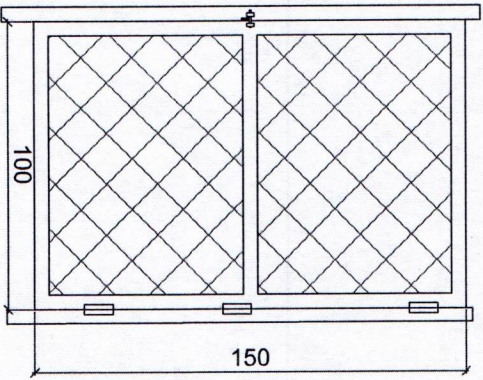
WINDOW OF INCINERATOR

View of Incinerator

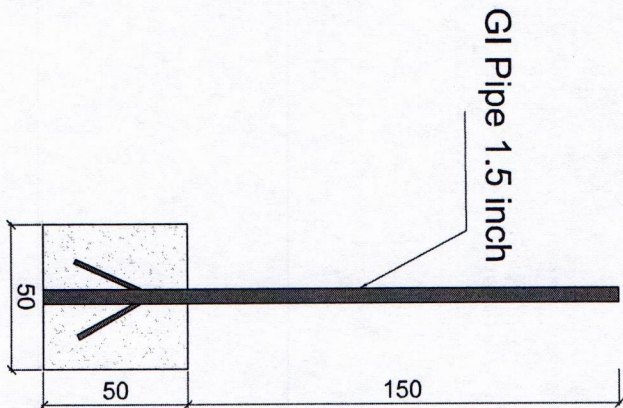


01 | View of Incinerator

AGA KHAN HEALTH SERVICES, AFGHANISTAN	SURVEYED BY	ENG. M. JAN "SULTAN"	CHECKED BY	AKHS, A	SCALE	SHEET NO.	PROVINCE	PROJECT NAME		Ministry of Public Health (BAMIYAN PROVINCE)
	DESIGNED BY							HERI (CO-FINANCING)		
	AKHS, A	DRAWN BY	ENG. M. JAN "SULTAN"	APPROVED BY	AKHS, A	DRAWING NO.	VILLAGE	DISTRICT	Bamiyan	
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									Incinerator	



Gate of fence boundary



Detail of fence column



01 | Door and column Detail



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Aga Khan Health Services, Afghanistan

Bamiyan PHT

Bamiyan Provincial Engineering Department

Renovation of Guli BHC, Kafshab SHC, Sangi Sokhta SHC and Takht Waras SHC

SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

Date:24/08/2026



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Scope of Work / Technical Specification

1.Scope of work

The purpose of this project is to develop a gravity-fed water supply system by conveying water from an existing natural spring to the clinic, ensuring a reliable and sustainable source of potable water.

The scope of work includes the following activities:

1. Spring Development

- Excavate the spring source in hard soil conditions until the spring is fully exposed and cleaned.
- Remove all silt, debris, loose materials, and unsuitable soil from the spring to improve water flow and quality.
- Shape and stabilize the spring area as required to protect the water source.

2. Construction of Water Collection Box

- Construct a reinforced concrete water collection box at the spring source.
- Apply waterproof cement plaster to the internal surfaces of the collection box to prevent leakage and protect the structure.
- Install the necessary inlet arrangements to collect spring water and direct it into the collection box.
- Ensure the structure is watertight and protected against surface water infiltration and contamination.

3. Valve Box Construction

- Construct a valve box complete with the required valves and fittings for flow control, isolation, operation, and maintenance of the water supply system.

4. Pipeline Installation



- Excavate pipeline trenches in hard soil along the approved alignment from the spring to the clinic.
- Supply, lay, join, and test PE (Polyethylene) pipes, including all required fittings, couplings, bends, reducers, and accessories.
- Connect the pipeline from the reservoir to the clinic.
- Backfill and compact the trenches after successful installation and testing of the pipeline.

5. Testing and Commissioning

- Test the entire water conveyance system for leakage, structural integrity, and proper water flow.
- Flush and clean the pipeline before commissioning.
- Complete all necessary adjustments to ensure a continuous and reliable water supply to the clinic.

All excavation work under this project shall be carried out in hard soil conditions. The contractor shall provide all labor, materials, equipment, tools, transportation, supervision, and all incidental work necessary to complete the project in accordance with the approved drawings, technical specifications, and applicable engineering standards.

3. Plain cement concrete (PCC)

Technical Specifications

PCC shall be of Grade M15 (1:2:4 mix) using as standard size aggregate.

Materials

- Cement (OPC)
- Sand and fine aggregate
- Crushed stone (coarse aggregate)
- Clean water

Method of construction

- Subgrade shall be compacted and leveled.
- Concrete shall be machine or hand mixer.



- Placing shall be done immediately after mixing not more than 30min.
- Surface shall be leveled and finished.

Quality control

- Slump and workability shall be checked.
- Ensure proper compaction.
- Curing shall be done for minimum 14 days.

4. Reinforced cement concrete (RCC)

Technical specifications

RCC shall be Grade M20 with reinforcement steel Fy60. Concrete cover and reinforcement details shall follow structural drawings.

Materials

- Cement, sand, and coarse aggregates
- Reinforcement steel bars
- Binding wire and spacers (stirrups)

Method of construction

- Formwork should be properly aligned and supported.
- Reinforcement shall be cut, bent, and fixed as per design.
- Concrete shall be poured and compacted using vibrators.
- Surface shall be leveled and finished.

Quality control

- Check reinforcement spacing, size, and cover according to the drawing.
- Ensure proper vibration and no honeycombing.
- Curing shall be done for minimum 14 days.
- Cube tests may be conducted if required.

5. Plumbing Work (PPR and PVC Pipes)

Technical specifications



Plumbing works shall include installation of water supply and drainage systems using approved materials, ensuring proper flow and leak-proof connections.

Materials

- PPR pipes (PN20) and PE D100 for water supply
- uPVC pipes or PVC (Schedule 40 or equivalent) for drainage
- Pipe fittings, valves, and fixtures

Method of construction

- Pipes shall be laid according to approved layout.
- PPR joints shall be made using heat fusion method.
- PVC joints shall be connected using solvent cement.
- Proper slope (1–2%) shall be maintained for drainage lines.

Quality control

- Conduct pressure testing for water supply lines.
- Check all joints for leakage.
- Ensure proper alignment and support of pipes.

6. Construction of incinerator and pits (Burnt Brick Type 1)

a. General Specification

This item includes the complete construction of an incinerator and associated pits using burnt brick masonry (Type 1) including excavation, foundation, masonry work, RCC elements plastering, and all necessary finishing works as per approved drawings and instructions of the engineer. The system shall be constructed to ensure safe, efficient, and hygienic burning and disposal of waste.

b. Materials and equipment

All materials shall be new, durable, and approved before use:

- Bricks: First-class well-burnt bricks, uniform size and strength
- Mortar: Cement-sand mortar (1:4)
- Cement: Ghorī cement or approved equivalent
- Sand: Clean, well-graded, free from organic impurities



- Water: Clean potable water

c. Method of work

- Setting out of incinerator and pit locations as per approved drawings.
- Excavation to required depth and disposal of surplus material to approved dumping areas.
- Construction of brick masonry walls using burnt bricks in cement-sand mortar with proper bonding.
- Construction of combustion chamber, pits, and flue/ash disposal areas as per design.
- Provision of openings, air inlets, and access points for operation and maintenance.
- Installation of RCC slab covers or structural components where required.
- Plastering of internal and external surfaces with cement mortar for protection and smooth finish.
- Proper curing of all masonry and concrete works for required duration.
- Backfilling around structures in layers with proper compaction after completion.

d. Quality control

- All bricks shall be inspected and approved before use.
- Mortar mix shall strictly follow specified ratios and be properly mixed.
- Alignment, levels, and dimensions shall be checked at each stage of construction.
- Proper bonding and full joint filling shall be ensured to avoid leakage and structural weakness.
- Fire-resistant areas shall be constructed with approved materials suitable for high temperatures.
- Any defective work shall be removed and reconstructed at contractor's expense.



e. Standard engineering requirements

- Construction shall comply with standard civil engineering and environmental sanitation guidelines.
- Incinerator design should ensure safe combustion, proper ventilation, and controlled emissions.
- Structure should be durable, heat-resistant, and suitable for continuous operational use.
- Safety measures should be strictly followed during construction and handling of materials.
- Work shall be completed as per approved drawings, specifications, and Engineer's instructions.

7. Plaster Work

The work includes providing all labor, materials, equipment, and tools necessary for plastering works to walls, ceilings, columns, and other surfaces as shown in drawings and specified in the Bill of Quantities (BoQ).

Materials

- Cement: conforming to relevant standards
- Sand: Clean, well-graded river sand free from dust, clay, and organic materials
- Water: Clean and potable
- Additives (if required): Approved bonding agents or waterproofing compounds

Surface preparation

- All surfaces shall be cleaned from dust, oil, grease, and loose materials
- Joints in masonry shall be raked to a depth of 10–15 mm
- Concrete surfaces shall be roughened or treated with bonding agent
- Surfaces shall be properly wet before plastering

Application of plaster

- Plaster shall be applied in cement-sand mortar (1:3).
- Thickness of plaster:



- Internal walls: 12–15 mm
- External walls: 15–20 mm
- Plaster shall be applied in one or more coats to achieve required thickness
- Proper leveling, alignment, and smooth finishing shall be ensured
- Corners and edges shall be finished true and straight using corner beads if required
- Curing shall be carried out for at least 14 days

Quality control

- Mortar mix shall be prepared in correct proportions
- Work shall comply with approved drawings and engineering standards
- Surfaces shall be checked for plumb, level, and alignment
- Defective work shall be removed and replaced at contractor's cost

8. Installation of galvanized fence wire (2.2 mm, Roll 1.5 × 20 m)

a. Scope of work:

Supply and installation of galvanized fence wire on top of the stone masonry boundary wall in accordance with the approved drawings and Engineer's instructions.

b. technical specifications:

- Fence wires shall be galvanized steel, corrosion resistant.
- Wire diameter: 2.2 mm.
- (Roll) size: 1.5 m height × 20 m length.
- Mesh shall be uniform (5.5x5.5), properly woven, and free from defects.
- Galvanization shall comply with relevant international standards (ASTM/BS).

c. Method of execution:

- Fence wire shall be fixed securely on top of the boundary wall using GI posts or supports as per drawings.
- Proper tension should be applied to avoid sagging.




- Wire shall be aligned vertically and horizontally.
- All joints between rolls shall be properly tied and secured.

d. Quality control:

- Check wire diameter and galvanization quality.
- Ensure proper alignment, tension, and fixing.
- Inspect for damages, rust, or loose connections.

9. Installation of galvanized iron (GI) pipe columns (2-inch diameter, 2.5 mm Thickness)

Scope of work:

Supply and installation of galvanized iron (GI) pipe columns for supporting fence and barbed wire as per drawings.

a. Technical specifications:

- Pipe diameter: 2 inches (50 mm).
- Wall thickness: 2.5 mm.
- Material: High-quality galvanized steel.
- Pipes shall be straight, free from defects, and corrosion resistant.

b. Method of execution:

- Pipes shall be installed vertically at specified spacing (as per drawings, typically 1.5 m c/c).
- Pipes shall be embedded into concrete footing or fixed with base plates as specified.
- Minimum embedment depth: not less than 500 mm in stone masonry.
- Alignment and verticality (plumb) shall be ensured.

c. Quality control:

- Check pipe thickness, diameter, and galvanization.



- Ensure proper spacing, alignment, and firm fixing.
- Verify concrete anchorage where applicable.

10. Tiling work

a. General description

The work includes supply, preparation, and installation of floor and wall tiles in accordance with approved BoQ. The contractor shall provide all materials, labor, tools, equipment, and supervision required to complete the tiling work properly.

b. Materials

All materials shall be of high quality and approved by the Engineer prior to use.

a. Tiles

- Ceramic/porcelain tiles of approved size, color, and texture
- Standard thickness: 8–10 mm (floor) and 6–8 mm (wall)
- Tiles shall be free from cracks, chips, or defects

b. Cement

- Ordinary Portland Cement (OPC)
- Fresh, free from lumps, and stored properly

c. Sand

- Clean, well-graded fine sand
- Free from clay, silt, and organic impurities

d. Mortar

- Cement mortar mix ratio: 1:3 (cement: sand) for bedding and fixing tiles

e. Water

- Clean and potable water suitable for construction

f. Tile Adhesive



- Approved quality adhesive for better bonding in wall tiles

g. Grout Material

- Cement-based grout or ready-made grout (color as approved)

c. Method of execution

a. Surface Preparation

- The surface shall be cleaned from dust, oil, grease, and loose particles
- Uneven surfaces shall be leveled using cement mortar
- Proper curing of base surface shall be ensured before tiling

b. Mortar bed preparation

- Prepare mortar with ratio 1:3 (cement: sand)
- Mix thoroughly to achieve uniform consistency
- Spread mortar evenly to required thickness (20–30 mm for floors)

c. Tile laying

- Tiles shall be soaked in water (for ceramic tiles) before installation
- Tiles shall be laid on fresh mortar bed and properly aligned
- Use spacers to maintain uniform joints (2–3 mm)
- Ensure proper level and slope (especially for wet areas like toilets)

d. Cutting and fitting

- Tiles shall be cut using appropriate tools
- Edges shall be smooth and properly finished
- No broken or damaged tiles shall be used

e. Grouting

- Joints shall be filled with cement grout or approved grout material




- Excess grout shall be cleaned immediately
- Final surface shall be neat and clean

f. Curing

- Tiled surface shall be cured with water for at least 14days
- Preventing damage during curing period

d. Technical requirements

- Mortar ratio strictly maintained at 1:3
- Tiles shall be properly aligned both vertically and horizontally
- No hollow sound when tiles are tapped
- Proper slope (1–2%) shall be maintained in wet areas
- Expansion joints shall be provided where required

e. Quality control

- All materials shall be approved before use
- Regular inspection during installation
- Check alignment, level, and joint spacing
- Remove and replace defective or hollow tiles
- Final inspection to ensure smooth finish and proper bonding

11. Completion and handover

Technical specifications

All work shall be completed as per specifications, drawing and ready for use.

Method

- Final inspection shall be conducted.
- All systems shall be tested.
- Site shall be cleaned.




Quality control

- Ensure all defects are corrected.
- Obtain approval from supervising engineer before handover.

12. Safety of labor

Technical specifications

All workers shall comply with standard construction safety regulations to ensure worker protection.

Materials / Equipment

- Personal Protective Equipment (PPE): helmets, gloves, safety boots, masks
- Safety signage and barriers

Method of implementation

- Workers should be trained in safety procedures.
- Use of PPE shall be mandatory on site.
- Proper scaffolding and safe access shall be provided.

Quality control

- Regular safety inspections shall be conducted.
- Any unsafe conditions shall be corrected immediately.
- Accident records shall be maintained.

13. Environmental

Technical specifications

Construction activities should minimize environmental impact and comply with local environmental regulations.

Materials / Measures

- Dust control (water spraying)
- Waste collection and disposal materials
- Noise control measures



Method of Implementation

- Construction waste shall be properly managed and disposed of.
- Dust generation shall be minimized by regular water sprinkling.
- Noise should be controlled during working hours.

Quality control

- Site cleanliness shall be maintained.
- No dumping of waste in unauthorized areas.
- Regular monitoring of environmental practices.

14. Finishing work

Technical specifications

All finishing work shall provide a smooth, durable, and aesthetically acceptable surface.

- Surfaces shall be prepared and cleaned.
- Plastering shall be applied evenly where required.
- Final finishing shall be smooth and level.
- Check surface smoothness and alignment.
- Ensure no cracks, unevenness, or defects.
- Final inspection before handover.

Duration: The contractor shall complete all renovation work within the agreed contract period, with a final completion deadline of 30/09/2026.

M. Jan Sultoni
Civil Engineer

Regards

Aga Khan health services, Afghanistan
Bamyan Provincial Engineering Department

