

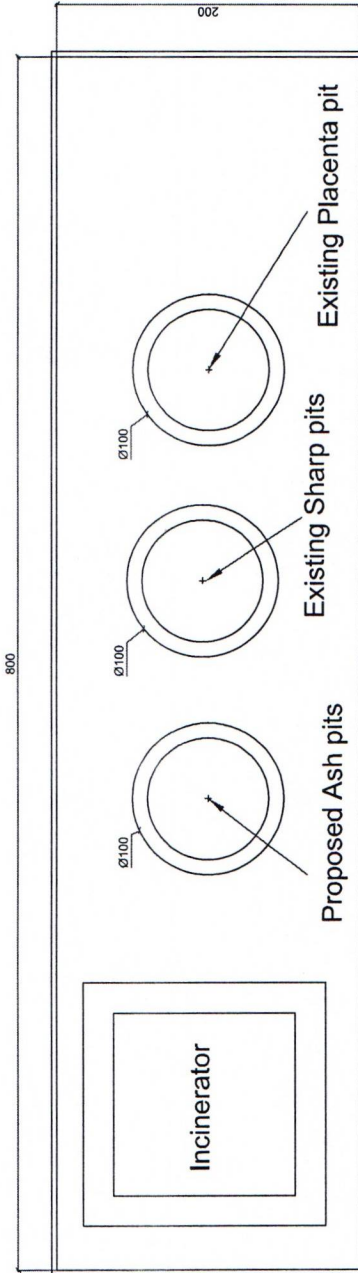
Renovation of Warzang SHC, Waras District, Bamyan Province

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





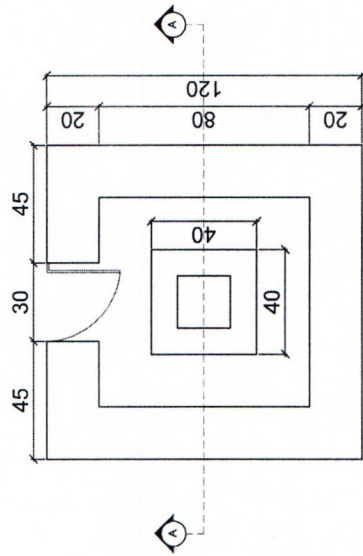
Plan of Incinerator with Pits



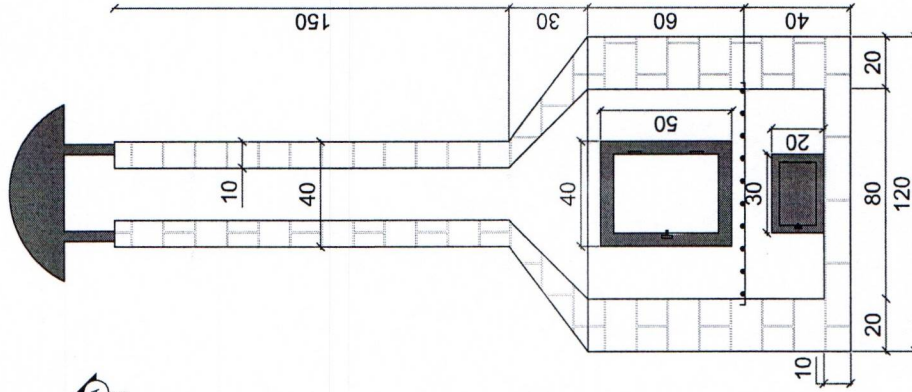
01 | Plan of Incinerator with Pits

ACA KHAN HEALTH SERVICES, AFGHANISTAN AKHS, A	SURVEYED BY DESIGNED BY DRAWN BY	ENG. M. JAN "SULTAN" ENG. M. JAN "SULTAN"	CHECKED BY REVIEWED BY APPROVED BY	AKHS, A AKHS, A AKHS, A	SCALE DATE DRAWING NO.	23-07-2026	SHEET NO.	PROVINCE DISTRICT VILLAGE	BAMYAN Wazir Wazirang SHC	PROJECT NAME HER (CO-FINANCING) DRAWING TITLE Incinerator		Ministry of Public Health (BAMYAN PROVINCE)

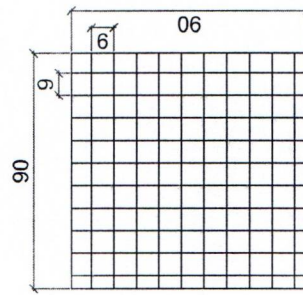




PLAN OF INCINERATOR



Section(A-A)



Reinforcement detail of mesh for incinerator

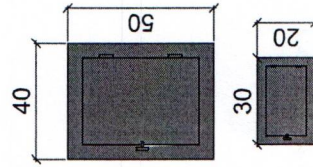
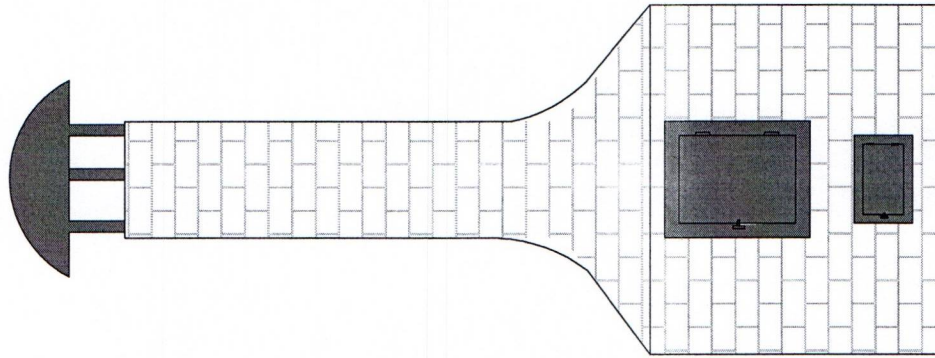
01 | Plan and detail of incinerator



ACA KHAN HEALTH SERVICES, AFGHANISTAN AKHS, A	SURVEYED BY	ENG. M. JAN 'SULTAN'	CHECKED BY	AKHS, A	SCALE	SHEET NO.	PROVINCE	BAMYAN	PROJECT NAME	Ministry of Public Health (BAMYAN PROVINCE)
	DESIGNED BY	ENG. M. JAN 'SULTAN'	REVIEWED BY	AKHS, A	DATE	23-07-2026	DISTRICT	Waras	HER (CO-FINANCING)	
	DRAWN BY	ENG. M. JAN 'SULTAN'	APPROVED BY	AKHS, A	DRAWING NO.		VILLAGE	Warzang	DRAWING TITLE	
									Incinerator	



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WINDOW OF INCINERATOR

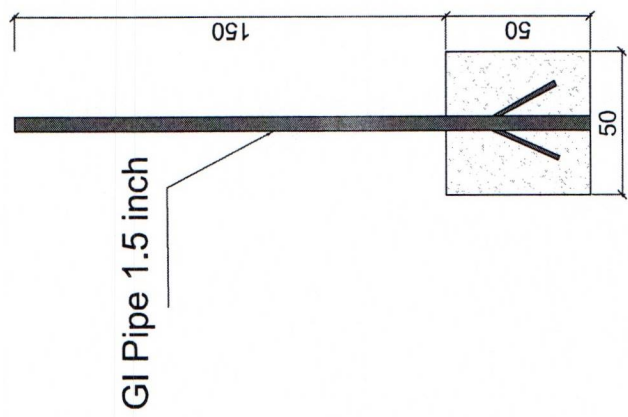
View of Incinerator



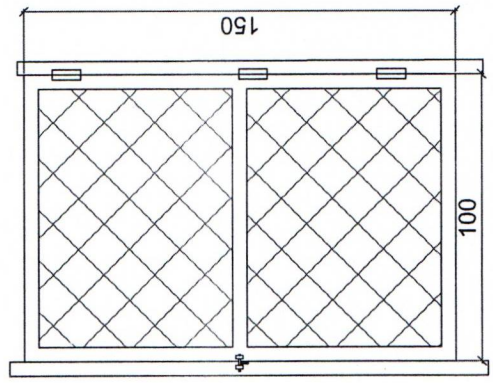
01 | View of Incinerator

ACA KHAN HEALTH SERVICES, AFGHANISTAN AKHS, A	SURVEYED BY	ENG. M. JAN "SULTAN" ENG. M. JAN "SULTAN"	CHECKED BY	AKHS, A	SCALE DATE	23-07-2026 DRAWING NO.	SHEET NO.	PROVINCE DISTRICT VILLAGE	BAMYAN Waras Warzang	PROJECT NAME		Ministry of Public Health (BAMYAN PROVINCE)
	DESIGNED BY		REVIEWED BY	AKHS, A						HER (CO-FINANCING)	DRAWING TITLE	
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Detail of column

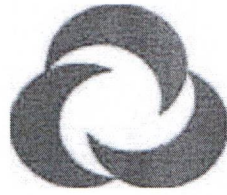


Door for incinerator



01 | Door and column Detail

ACA KHAN HEALTH SERVICES, AFGHANISTAN	SURVEYED BY	DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY	APPROVED BY	AKHS, A	AKHS, A	AKHS, A	SCALE	DATE	DRAWING NO.	SHEET NO.	23-07-2026	PROVINCE	DISTRICT	VILLAGE	BAMYAN	Weras	Wazag	PROJECT NAME	HER (CO-FINANCING)	DRAWING TITLE	Incinerator	Ministry of Public Health (BAMYAN PROVINCE)



Aga Khan Health Services, Afghanistan
Bamiyan PHT
Bamiyan Provincial Engineering Department
Renovation of Warzang SHC

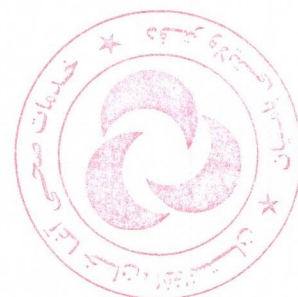
Scope of work and technical specification

Date: 23/07/2026



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Scope of Work

1.Plain cement concrete (PCC) work

a. General specification

This item includes the supply and placement of Plain Cement Concrete (PCC) in foundations, sub-base, flooring, leveling course, or other structural/non-structural elements as shown in the drawings or directed by the engineer. The work shall be executed in accordance with standard civil engineering practices ensuring strength, durability, and proper finishing.

b. Materials and equipment

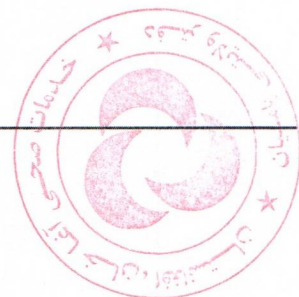
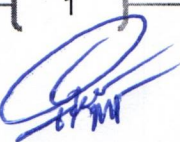
All materials shall be new, clean, and approved by the Engineer:

- Cement: Ghorī cement or equivalent approved type
- Sand: Clean, well-graded, free from organic matter
- Coarse aggregate: Crushed stone of specified grading
- Water: Clean potable water
- Equipment: Concrete machine mixer, vibrating machine, compaction tools, and curing tools

c. Method of work

- Preparation of subgrade including cleaning, leveling, and compaction.
- Formwork shall be provided where necessary to maintain shape and level.
- Mixing concrete by machine and approved manual method in specified mix ratio M15 (1:2:4).
- Proper batching of materials using accurate measuring tools.
- Placement of concrete in layers to avoid segregation.
- Compaction using vibration or manual tamping to remove air voids.
- Finishing the surface to required level, slope, and smoothness.
- Proper curing of concrete by water sprinkling or approved curing method for minimum 14 days.

{ 1 }



- Protection of freshly laid concrete from damage, rain, or rapid drying.

d. Quality control

- All materials shall be tested and approved prior to use.
- Correct mix proportions shall be strictly maintained.
- Slump tests and other field tests shall be conducted as required.
- Concrete shall be placed and compacted without delay to avoid cold joints.
- Curing shall be continuous and adequate to achieve required strength.
- Finished surface shall be checked for level, thickness, and uniformity.

e. Standard engineering requirements

- PCC work shall comply with relevant civil engineering standards and specifications.
- Minimum strength and thickness shall be as per design requirements.
- Work shall be executed to ensure durability, stability, and proper load distribution.
- Safety measures shall be followed during all stages of construction.
- Any defective or poor-quality work shall be removed and redone at contractor's expense.

2. 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.

3. 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

4. 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 14 days
- 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

5. 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.




6. 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:

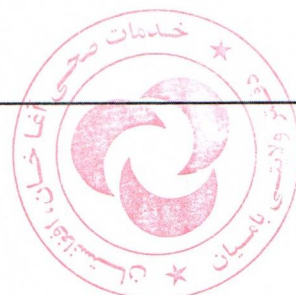
- Check pipe thickness, diameter, and galvanization.
- Ensure proper spacing, alignment, and firm fixing.
- Verify concrete anchorage where applicable.

7. 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.

8. Safety of labor

Technical specifications

- All workers shall comply with standard construction safety regulations to ensure worker protection.
- If any issue occurs due to non-compliance with safety rule, AKHS shall not be held the responsibilities.
- Contractors should ensure safety of workers and pedestrians during execution.
- Proper scaffolding, safety belts, and protective equipment shall be used.
- The work area should be secured to prevent accidents.
- Contractor shall ensure safe handling and installation.
- Proper tools, PPE, and safety procedures shall be followed during fabrication and installation.

Materials / Equipment

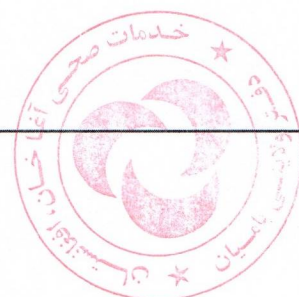
- Personal Protective Equipment (PPE): helmets, gloves, safety boots, masks
- Safety signage and barriers

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.

9. 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

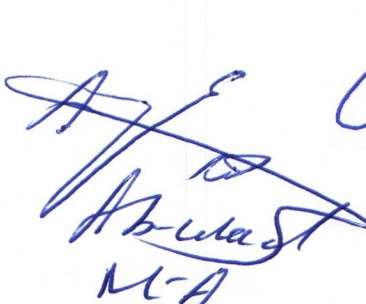
- Site cleanliness shall be maintained.
- No dumping of waste in unauthorized areas.
- Regular monitoring of environmental practices.

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

Regards

Aga Khan health services, Afghanistan

Bamyan Provincial Engineering Department


M. Jan Sultan
Civil Engineer

