

Norwegian Refugee Council (NRC) IRAQ

Rehabilitation of 14 Schools in Baaj District Ninewa Governorate

ITB – MSL - 2019 – 003

Our reference: ITB – MSL - 2019 – 003

SUBJECT: INVITATION TO TENDER FOR Rehabilitation of 14 Schools in Baaj District Ninewa Governorate

Dear Mr/Ms

Following your enquiry regarding the publication of the above-mentioned invitation to tender, please find enclosed the following documents, which constitute the tender dossier.

Any request for clarification must be received by NRC in writing at least 5 working days before the deadline for submission of tenders. NRC will reply to bidders' questions at least 2 working days before the deadline for submission of tenders.

Costs incurred by the bidder in preparing and submitting the tender proposals will not be reimbursed.

We look forward to receiving your tender at the address specified in the Instructions to Bidders before 21st March 2019 1500hrs. As stated in the public tender notice.

If you decide not to submit a tender, we would be grateful if you could inform us in writing, stating the reasons for your decision.

Yours sincerely,
NRC

This ITB document contains the following:

- ✓ This cover Letter
- ✓ Section 2: Bid Data sheet
- ✓ Section 3: NRC Invitation to bid general terms & condition
- ✓ Section 4: Technical description of the Bid
- ✓ Section 5: Bidding form
- ✓ Section 6: Work Schedule
- ✓ Section 7: Company Profile and Previous Experience
- ✓ Section 8: Bill of Quantities
- ✓ Section 9: Suppliers Ethical Standards Declaration
- ✓ ANNEX A: BOQ As indicated in the bid document section 8
- ✓ ANNEX B: Sample Checklist

Sections highlighted in green must be completed by the bidder.

SECTION 2

Bid Data Sheet Work Contract

1. BACKGROUND DATA

Contract Name: INVITATION TO TENDER FOR Rehabilitation of 14 Schools in Baaj District, Ninewa Governorate	Contract Number: ITB – MSL - 2019 – 003
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This bid is issued by Norwegian Refugee Council (NRC office in Erbil Iraq. Any correspondence can be addressed to the following address office.

Norwegian Refugee Council
Ekhlas Empire Building, Beside Hogir Fuel Station Korani Ankara area, 100 m street- Erbil; IRAQ

To ensure prompt responses, all queries must be sent to the following email ig.procurement@nrc.no

2. SCOPE OF WORK

Contract No.	Country	Work Description
ITB – MSL - 2019 – 003	Iraq	INVITATION TO TENDER FOR Rehabilitation of 14 Schools in Baaj District, Ninewa Governorate

Please refer to the technical specifications, drawings, and BOQs for more details.

MAXIMUM TIME-FRAME FOR COMPLETION OF WORKS: The overall schedule for works for each contract/Work Order must be submitted. This forms part of a mandatory requirement. However, you are expected to prepare a schedule to complete the works within a practical and timely manner.

3. SCHEDULE & DEADLINE FOR SUBMISSION

The deadline for submission of bids is 1500 hrs on the 21 March 2019. Late bids will not be accepted.

	DATE	TIME*
Invitation to Bid release	7th March 2019	
Deadline for request for any clarifications from NRC	17th March 2019	1500hrs
Pre bidding brief (site visit)	13th March 2019	1100hrs
Deadline for submission of tenders (receiving date, not sending date)	21st March 2019	1500 hrs

* All times are in the local time of Iraq

Please note all dates are provisional dates and NRC reserves the right to modify this schedule.

4. MANNER OF SUBMISSION:

Please submit your bids in accordance with the requirements detailed below:

Complete sealed bid documents shall be hand delivered at NRC Office as per the below address;

Norwegian Refugee Council

Ekhlas Empire Building, Beside Hogir Fuel Station Korani Ankara area, 100 m street- Erbil

Not later than 1500 hrs on the due date indicated above.

5. ASSESSMENT CRITERIA

Award of the contract(s) will be based on the following:

Step 1: Administrative compliance check

Bidders must provide evidence of the following for their bid to be considered compliant:

1. Sections 5-9 completed, signed and stamped
2. Bidder has included a copy of their valid business licence.

Step 2: Technical Evaluation

A Technical Evaluation of all bids received will be conducted to shortlisted bidders. Criteria that will be used to evaluate and score the bids are outlined in Section 3, Clause 25

Step 3: Financial Evaluation

Price in comparison to NRC established expectation and in comparison to other bidders of comparable technical quality

SECTION 3

NRC Invitation to bid - General Terms & Conditions

1 SCOPE OF BID

- 1.1 The bid is based on the scope of the assignment as determined in the Bid Data Sheet (Section 2). The instruction to bidders should be read in conjunction with the Bid Data Sheet.
- 1.2 The successful Bidder will be expected to complete the assignment by the Intended Completion Date specified in the contract to be signed

2 CORRUPT PRACTICES

- 2.1 **Norwegian Refugee Council** requires Employees, Bidders and Contractors, to observe standards of ethics during procurement and the execution of contracts. In pursuit of this, Norwegian refugee Council defines, for the purposes of this provision, the terms set forth below as follows:
 - a) "Corrupt practice" includes the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
 - b) "Fraudulent practice" includes a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Norwegian Refugee Council, and includes collusive practices among Bidders prior to or after bid submission designed to establish bid prices at artificial, non-competitive levels and to deprive the Norwegian Refugee Council of the benefits of free and open competition;
 - c) In any case where fraud or corruption is identified, NRC will:
 - reject any bids where the Bidder has engaged in corrupt or fraudulent practices in competing for the Contract;
 - remove bidding contractors who engage in fraudulent or corrupt practices, from our prequalified list
 - liaise with District Officials to report if fraudulent or corrupt practices are identified
 - terminate works
- 2.2 Any communications between a Bidder and the Norwegian Refugee Council related to matters of alleged fraud or corruption must be made in writing and addressed to the Country Director in Iraq.

3 ELIGIBLE BIDDERS

- 3.1 A Bidder shall meet the following criteria to be eligible to participate in NRC procurement of Works:
 - a) the bidder, at the time of bid, is not:
 - i. insolvent;
 - ii. in receivership;
 - iii. bankrupt; or
 - iv. being wound up
 - b) the bidder's business activities have not been suspended;
 - c) the bidder is not the subject of legal proceedings for any of the circumstances in (b); and
 - d) The bidder has fulfilled his or her obligations to pay taxes and social security contributions. In a case where VAT is included in a bid, a copy of the VAT certificate must accompany the bid. A Bidder, and all parties constituting the Bidder including sub-contractors, shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or

influence on the bid of another Bidder, or influence the decisions of the Norwegian Refugee Council regarding this bidding process

3.2 A Bidder whose circumstances in relation to eligibility change during a procurement process or during the execution of a contract shall immediately inform the Norwegian Refugee Council.

3.3 NRC reserves the right to refuse a bid at any time if the bidder or one of its sub-contractors provided material support or resources to any individual or entity that commits, attempts to commit, advocates, facilitates, or participates or is found guilty of fraud, active corruption, collusion, coercive practice, bribery, involvement in a criminal organization or illegal activity, or immoral human resources practices, including but not limited to: child labour, non-discrimination, freedom of association, payment of the legal national minimum wage, and forced labour.

4 JOINT VENTURES, CONSORTIA AND ASSOCIATIONS

Bids submitted by a joint venture, consortium or association of two or more firms as partners will only be accepted in exceptional circumstances.

5 ONE BID PER BIDDER PER WORK

Each Bidder shall submit only one Bid per contract. A Bidder who submits or participates in more than one bid per contract will cause all the bids with the Bidder's participation to be rejected.

6 COST OF BIDDING

The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Norwegian Refugee Council shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

7 SITE VISIT

The Bidder, at the Bidder's own responsibility and risk, is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.

NRC engineers will organize a compulsory site visit/pre bidding brief for the companies. All bidders are expected to gather at 11:00 am –Iraqi time, 13 Mar 2019 at the address: NRC office, Al-Shuhada'a neighborhood, Sinjar, 36.313466, 41.858264. Bidders can contact Kaiwan Kamaran at telephone: + 964 750 701 7679.

8 INSPECTION/SAMPLING

NRC is obliged to ensure that its procurement decisions are clearly justified and documented and keeping within the Donors mandatory principles. In that regard, full and on-the-spot access must be granted to representatives of NRC, the Donor or any organization or person mandated by it, to premises belonging to NRC or its contractors. The right to access shall include all documents and information necessary to assess, or audit the implementation of the contract.

Bidders are required to submit samples in form of photos as per the attached sample checklist.

9 OBTAINING AND COMPLETING BIDDING DOCUMENTS

9.1 Bidders who did not obtain the Bidding Document directly from the Norwegian Refugee Council will be rejected during evaluation. Where a Bidding Document is obtained from the Norwegian Refugee Council on a Bidder's behalf, the Bidder's name must be registered with the Norwegian Refugee Council at the time of issue.

9.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.

10 CLARIFICATION OF BIDDING DOCUMENT

A prospective Bidder requiring any clarification of the Bidding Document shall contact the Norwegian Refugee Council in writing. The Norwegian Refugee Council will respond in writing to any request for clarification before the deadline for clarification of bids. The Norwegian Refugee Council shall forward copies of its response to all Bidders who have acquired the Bidding Document, including a description of the inquiry but without identifying its source.

11 AMENDMENT OF BIDDING DOCUMENT

- 11.1 At any time prior and until 48 hours prior to the deadline for submission of bids, the Norwegian Refugee Council may amend or cancel the Bidding Document by informing the bidders in writing.
- 11.2 To give prospective Bidders reasonable time in which to take an amendment or cancellation into account in preparing their bids, the Norwegian Refugee Council can, at his discretion, extend the deadline for the submission of bids.

12 LANGUAGE OF BID

- 12.1 The bid, as well as all correspondence and documents relating to the bid shall be written in English.
- 12.2 Supporting documents and printed literature that are part of the bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Bid, such translation shall govern.

13 DOCUMENTS COMPRISING THE BID

- 13.1 The bid submitted by the Bidder shall comprise the following:
 - Signed and stamped Contractor's Bidding form in Section 5
 - Any other information and documents requested in Section 4.
 - Service provision Schedule (as in Section 6)
 - Company Profile and Previous experience (as in Section 7)
 - Service Description and Pricing Proposal (as in Section 8)
 - Signed and stamped Supplier Ethical Standards Declaration (as in Section 9)
- 13.2 All forms must be completed without any alterations to the format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

14 BID PRICE FOR WORKS CONTRACT

- 13.1 Bid prices are for complete contracts. Contracts cannot be subdivided into pieces. Where a bid is submitted, all relevant BoQ must be completed.
- 13.2 The Bidder shall fill in rates and prices for all items of the Works/supply or service described in the drawings and specifications and listed in the BoQ. Items for which no rate or price is entered by the Bidder will not be paid for by the Norwegian Refugee Council when executed and shall be deemed covered by the other rates and prices in the BoQ.
- 13.3 Unless otherwise specified in the Bid Data Sheet, all duties, taxes and other levies payable by the contractor under the contract, shall be included in the total bid price submitted by the bidder.
- 13.4 For bidder subject to VAT, VAT should be mentioned in the offers
- 13.5 The priced Bill of Quantities submitted by any Bidder shall be checked for arithmetical errors and for what might be considered unreasonable rates during the evaluation. Where errors are identified one or more of the following steps may be taken:
 - a) If any rates are considered unrealistic or unreasonable, they may be altered by mutual agreement, provided that no alteration shall be made in the amount of the Bid.
 - b) If any arithmetical errors are detected in an otherwise acceptable bid, and the Bidder, on

being so notified, is prepared to confirm his bid and if the Bidder is subsequently awarded the contract, then the Bid shall be altered to reflect the difference.

- c) The Bidder is reminded that it is entirely his responsibility to ensure the accuracy of his bid. No alteration will be made to the bid after its submission on the grounds of any arithmetical errors subsequently discovered except as provided above.

15 **CURRENCIES OF BID AND PAYMENT**

All prices shall be quoted by the Bidder in USD, unless otherwise stated. Similarly, all payments will be made in USD.

16 **BID VALIDITY**

- 16.1 Bids shall remain valid for a period of 120 days after the date of the bid submission deadline as prescribed by Norwegian Refugee Council. A bid valid for a shorter period shall be rejected as non-compliant.
- 16.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Norwegian Refugee Council may request Bidders in writing to extend the period of validity of their bids. A Bidder must confirm in writing his acceptance of the extension. In case of extension, modification of the bid is not permitted.

17 **ALTERNATIVE BIDS**

Bidders shall submit offers that comply with the requirements of the bidding documents, including the basic technical design as indicated in the drawings and specifications. Alternative bids shall not be considered unless otherwise indicated in Section 2 – the Bid Data Sheet.

18 **FORMAT AND SIGNING OF BID**

The Bidder shall prepare one set of bid documents per contract that he wishes to bid for. The bidder should hold a copy of the documents with himself, for reference purposes.

19 **SEALING AND MARKING OF THE BID**

- 19.1 The Bidder shall enclose the bid for each contract in a plain envelope securely sealed
- 19.2 The envelopes shall:
 - (a) be addressed to the Tender Committee, Norwegian Refugee Council, in the location specified in Section 2 – the Bid Data Sheet
 - (b) bear the Contract number
 - (c) no other markings should be on the envelope
- 19.3 If all envelopes are not sealed and marked as required, the Norwegian Refugee Council will reject the bid

20 **DEADLINE FOR SUBMISSION OF BIDS**

Bids must be received by the Norwegian Refugee Council at the address given and no later than the date and time indicated in Section 2 - the Bid Data Sheet.

21 **LATE BIDS**

The Norwegian Refugee Council shall not consider any bid that arrives after the deadline for submission as stipulated in Section 2 – the Bid Data Sheet. Any bid received by the Norwegian Refugee Council after the deadline for submission of bids shall be declared late and rejected.

22 **WITHDRAWAL AND REPLACEMENT OF BIDS**

- 22.1 A Bidder may withdraw or replace its bid after it has been submitted at any time before the deadline for

submission of bids by sending a written notice, signed by an authorized representative. Any corresponding replacement of the bid must accompany the respective written notice. All notices must be:

- (a) submitted as with Clauses 20 and 21, and in addition, the envelopes shall be clearly marked “WITHDRAWAL” or “REPLACEMENT” and
- (b) received by the Norwegian Refugee Council prior to the deadline for submission of bids, in accordance with Section 2 – the Bid Data Sheet

22.2 After the opening of bids, modifications to bids must be documented and any discussions reported in writing. A bid may be withdrawn at any stage, with written notice.

23 CONFIDENTIALITY

- 23.1 Information relating to the examination, evaluation, comparison, and post-qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until information detailing the best evaluated Bidder is communicated to all Bidders.
- 23.2 Any effort by a Bidder to influence the Norwegian Refugee Council in the examination, evaluation, comparison, and post-qualification of the bids or contract award decisions may result in the rejection of its bid.
- 23.3 From the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Norwegian Refugee Council on any matter related to the bidding process, it should do so in writing.

24 CLARIFICATION OF BIDS

Norwegian Refugee Council may, at its discretion, ask any Bidder for a clarification of its Bid. The Norwegian Refugee Council’s request for clarification and the response shall be in writing. Any clarification submitted by a Bidder that is not in response to a request by the Norwegian Refugee Council shall not be considered. All requests for clarifications shall be copied to all bidders for information purposes. No change in the price or substance of the bid shall be permitted, except to confirm the correction of errors.

25 BIDS VALIDATION

- 25.1 The Norwegian Refugee Council’s determination of a Bid’s validity is to be based on the contents of the bid itself, which cannot be corrected if determined to be invalid
- 25.2 A valid bid is one that complies with all the terms, conditions, and specifications of the Bidding Document, without deviation or omission, which affects, or could affect;
 - a) the scope, quality, or performance of the Works specified in the Contract; or
 - b) limits in any substantial way, the Norwegian Refugee Council’s rights or the Bidder’s obligations under the Contract

26 EVALUATION OF BID

- 26.1 The Norwegian Refugee Council shall examine the legal documentation and other information submitted by Bidders to verify eligibility, and then will review and score bids according to the following criteria;
 - a) Completion and inclusion of requested information and supporting documents (Administrative compliance) – Iraqi Registration and Tax Clearance certificate is a Mandatory Requirement.
 - b) Price in comparison to NRC estimated rate (Financial evaluation)
 - c) Overall timeframe for the works (Technical evaluation) – Providing Time Frame is a Mandatory requirement.
 - d) Schedules (Key Personnel and Activity schedule) (Technical evaluation)
 - e) Bill of Quantities (Financial & Technical evaluation)
 - f) Previous experiences in similar works (Technical evaluation)

- g) The last 6 months Bank statement
- 26.2 In case of two contractors being scored the same in the evaluation, the one with the highest technical ranking will be awarded the contract
- 26.3 Anti-money laundering, anti-bribery, anti-corruption and anti-terrorism legislation applicable in some jurisdictions may require NRC to verify the identity of the bidder prior to financial transactions. NRC reserves the right to use online screening tools to check the bidder's record with regards to their possible involvement in illegal or unethical practices.
- 26.4 Norwegian Refugee Council reserves the right to reject all bids, and re-tender if no satisfactory bids are submitted

27 **AWARD PROCEDURE**

- 27.1 The Norwegian Refugee Council shall award the Contract in writing, with an award letter, to the Bidder whose offer has been determined to be the best, before the end of the bid validity period
- 27.2 Any bidder who has not been awarded a contract, will be notified in writing
- 27.3 Until a formal contract is prepared and executed, the Award Letter shall constitute a binding agreement between the bidder and NRC.
- 27.4 The Award Letter will state the sum that the Norwegian Refugee Council will pay the Contractor in consideration of the Works as prescribed in the Contract, and in accordance with the Bid.
- 27.5 The Bidder is thereafter required to submit a Letter of Acceptance, confirming their wish to proceed with a contract.

28 **SIGNING OF CONTRACT**

- 28.1 Upon receipt of the Letter of Acceptance, the Norwegian Refugee Council shall call the successful Bidder to sign the Contract.
- 28.2 Within an agreed timeframe, the successful Bidder shall sign, date, and return the Contract to the Norwegian Refugee Council.

29 **CONTRACT**

- 29.1 The Contractor-to-be will comply with a Works Contract, which will foresee, among others, the following commitments:
 - a) Non-exploitation of child labour and respect of basic social rights and working conditions (including security regulations and insurance for labour);
 - b) Provide transport, with insurance coverage for the materials, up to the warehouse and construction sites;
 - c) Accomplish the works, according to the required quantities and technical specifications indicated in the Bill of Quantities and Technical Drawings (SECTIONS 7 and 8), within the proposed timeframe

30 **SUB CONTRACTING**

Please be advised that subcontracting is not permitted. Bidders must have the capacity to complete the works themselves.

SECTION 4

WORKS CONTRACT - Technical description and proposed work plan of the bid

NOTE:

1. Having Iraqi Registration and Tax Clearance certificate for 2019 is a Mandatory Requirement (Bids will be rejected if these documents are not provided)
2. A Detailed Work Plan is also a mandatory requirement; please propose your Work Plan/ Timeframe for rehabilitating 14 schools in Baaj.
3. Please submit Bank statement for last 6 months (Mandatory Requirement)

Refer Annexure A – Also known as BoQ Scope of Work in section 8

SECTION 5: BIDDING FORM

Please provide information against each requirement.

Additional rows can be inserted for all questions as necessary. If there is insufficient space to complete your answer in the space provided, please include on a separate attachment with a reference to the question.

1. Bidder's general business details

a) General information

Company name:	
Any other trading names of company:	
Registered name of company (if different):	
Nature of primary business/trade:	
Primary contact name:	
Job title:	
Phone:	
Email:	
Registered Address:	
Business licence number:	
Country of registration	
Registration date:	
Expiry date:	
Legal status of company (eg. partnership, private limited company, etc.)	

b) Owners/Managers

Please fill in the below table with the full names and the year of birth of the company's owner(s) and manager(s)*:

Full name	Year of birth

** Please note this information is necessary in order to conduct the vetting procedure referred to in clause 25 of the Invitation to Bid-General Terms and Conditions.*

c) Employees

Please list the employees who would be involved with NRC in the event of contract award:

Employee name	Job title	Role on NRC project	Phone	Email
1.				
2.				
3.				
...				

d) Company bank account details:

Beneficiary name:

Beneficiary account no.:

Beneficiary Bank:

Bank branch:

SWIFT:

IBAN:

Bank address:

2. References

Please provide details of at least 3 client references whom NRC may contact, preferably from NGOs and UN agencies, for similar related works:

Client/company name	Contact person	Phone	Email	Contract details (works, location, size, value, etc)
1.				
2.				
3.				
...				

3. Equipment

Please provide details of any relevant machinery/equipment/vehicles owned by the company that would potentially be used for construction: (do not mention rented items):

Type of machinery/ equipment/ vehicles	Quantity
1.	
2.	
3.	
4.	

5.	
6.	
...	

4. Defects Liability/Guarantee Period

Please provide details below of the defect liability and guarantee period you offer on the works included in this contract:

5. Bid Validity

Please confirm the validity of your bid below: Preferred 120 calendar Days

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6. Confirmation of Bidder's compliance

We, the Bidder, hereby certify that our tender is a genuine offer and intended to be competitive and we confirm we are eligible to participate in public procurement and meet the eligibility criteria specified in the Invitation to Bid. We confirm that the prices quoted are fixed and firm for the duration of the validity period and will not be subject to revision or variation.

The following documents are included in our **Bid**: (please indicate which documents are included by ticking the boxes below).

Documents	included
Section 5: Bidding form; completed, signed and stamped	☐
Section 6: Work Schedule; completed, signed and stamped	☐
Section 7: Company Profile and Previous Experience; completed, signed and stamped	☐
Section 8: Pricing Proposal; completed, signed and stamped	☐
Section 9: Supplier's ethical standards declaration; completed, signed and stamped	☐
Annexure B Sample checklist	☐
Copy of valid business licence (Iraqi Registration Certificate)	☐
Tax Clearance Certificate	☐
Bank Statement (Last 6 months)	☐

We understand that NRC is not bound to accept the lowest, or indeed any bid, received.

We agree that NRC may verify the information provided in this form itself or through a third party as it may deem necessary.

We confirm that NRC may in its consideration of our offer, and subsequently, rely on the statements made herein.

Name of Signatory:	Tel N°:
Title of Signatory:	Name of Company:
Signature & stamp:	Date of Signing:
	Address:

SECTION 6

Work Schedule: Proposed Work Plan in CDs (CDs = Calendar Days)

MANDATORY – the Bids will be rejected if the Work Schedule is not provided)

All works must be completed **within two months** after signing of the contract on rehabilitation works.
The bidder must submit **detailed work plan** for each school in their own format.

3. Detailed list of proposed **Personnel/Manpower** involved in the activities (e.g. engineers, site supervisors, foremen, masons, carpenters, plumbers, unskilled labors, etc.) with an estimate of the total man-day completed by each of the skills.

The Submission of the Manpower shall follow the below simple format:

#	Proposed Personnel/Manpower	# of workers allocated to this project
1		
2		
3		
4		
...		

NOTE: The list shouldn't be limited to this Form in regards to the number of proposed Key Personnel.
A comprehensive list has to be submitted adapting the Form to the necessary rows.

SECTION 7**COMPANY PROFILE AND PREVIOUS EXPERIENCE**

The Bidder is requested to:

1. Submit the **Company Profile**
2. Complete the following **Previous Experience table** listing the work or contracts undertaken in the past 5 years similar to the works required under this contract
3. Submit **evidences of previous experience** in form of Contracts, Completion Certificates, and Handover Documents etc.

#	Name of Project / Type of work	Total value of the performed works (.....)	Duration of the works contract	Starting date	Ending date	Contracting Authority and Place
1						
2						
3						
4						
5						
...						

NOTE: The list shouldn't be limited to this Form in regards to the number of works reported. A comprehensive list of the last 5 years' experience has to be submitted adapting the Form to the necessary rows.

NRC may conduct reference checks for previous contracts completed

SECTION 8

BILL OF QUANTITIES

Preamble to Bill of Quantities

- NRC has the faculty to contract all or part of the requested supply and works, according to budget availability;
- The supply and works should be the best available in the market;
- The Bidder should submit **supporting documents** concerning the proposed construction materials and works (i.e. catalogues, models, brands, drawings, technical documentation, technical specifications, etc. of the offered items);
- **All the materials to supply and the works to execute must be approved by the NRC Representative, prior to delivery and execution.**
- Costs must include all duties, taxes and other levies payable by the contractor under the contract and all mobilization costs specified in section 3.

NOTE: In case of discrepancy between BoQs and Drawings, the BoQs will prevail. In case of discrepancy between drawings, the one at larger scale will prevail.

BOQ

BoQ Summary

Reference Number	Location Town/village	BoQ Number	Cost in USD
B-S-001	Baaj	BoQ 1	
B-S-002	Baaj	BoQ 2	
B-S-003	Baaj	BoQ 3	
B-S-004	Baaj	BoQ 4	
B-S-005	Baaj	BoQ 5	
B-S-006	Khrab Aarna	BoQ 6	
B-S-007	Tell Khaleel	BoQ 7	
B-S-008	Baaj	BoQ 8	
B-S-009	Sroj	BoQ 9	
B-S-010	Al-Sultan	BoQ 10	
B-S-011	Shamalat	BoQ 11	
B-S-012	Zoman	BoQ 12	
B-S-013	Al-Mustariha	BoQ 13	
B-S-014	Al-Rashidya	BoQ 14	
Total			

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

  FLYKTNINGHJELPEN NORWEGIAN REFUGEE COUNCIL	BOQ TOTAL ESTIMATED COST in USD:	Level of Needs	Minor Repair
		Project Number/Donor	IQFM1846/GIZ
		School Director	Hamad Hamd Hamad
		BoQ Number	BoQ 1
		Reference Number	B-S-001
		City	Baaj
		District	Baaj
		Address	Baaj city, Alrsala
		GPS Coordinate-Longitude	41.7141513
		GPS Coordinate-Latitude	36.0433641
		BoQ done By	Aziz Bajo and Stefal Yousif
	ACTUAL MEASUREMENT COSTS in USD:	School Name	Baaj first school
		Number of Classrooms	12
		School-Phone Number	7508670663

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Windows and Doors				

A1	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	20		
A2	Door Locks (classroom):Supply door locks for Classroom doors and fix by good quality door handles with locks (for internal doors, steel door), approved by the technical supervising engineer.	No	12		
Total					
B	Roof Works				
B1	Waterproofing of school roof.Apply sealing product according to manufacturer's instructions and the work includes clean the roof surface using water jet and the and the roof should very clean then fix all the cracks befor applying the material .Apply the water primer coat then the UV material (Using Kalekim 4004 structural repairing mortar ,4505 Kalekim primer,3027 UV resistancewater proofing mortar and water proofing tape 3501 for expansion and construction joints .All the work and application instruction should be taken from the site engineer . the work includes the repairing of cracks in walls by using Kalekim 4004 structural repairing mortar	m2	325		
Total					
C	Sanitary Works				
C1	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on the roof of school.the price including Installing of PPR pipes (3/4 inches diameter) connections to the existing system, fittings ,taps, and float valves,with required completion work , according to instruction of supervisor engineer.	No	4.0		
C2	Rain water drainage. Repairing the existing pipes if need and adding new pipes and connections. Price includes: taking down the pipes, cleaning, repainting, adding the new connections and re-position them.including the required elbows, joins and all fittings.	m.l	20.0		

C3	Water Tap: Provide & Install ¾" Plastic Water PPR Tap Turkish Made, According to Technical Engineer Recommendations.	No	5.0		
D7	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	50		
Total					
Grand Total/USD					

Doors and Windows	
Roof Works	
Sanitary Works	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

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Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

BOQ TOTAL ESTIMATED COST in USD:	Level of Needs	Minor Repair
	Project Number/Donor	IQFM1846/GIZ
 	School Director	Hussen Khalf Saleh
	BoQ Number	BoQ 2
	Reference Number	B-S-002
	City	Baaj
	District	Baaj
	Address	Alaskree- Baaj court, Baaj-Ninawa
	GPS Coordinate-Longitude	41.71963985
	GPS Coordinate-Latitude	36.03886738
	BoQ done By	Aziz Bajo and Steafal Polas
	School Name	Alshama primary school
ACTUAL MEASUREMENT COSTS in USD:	Number of Classrooms	18
	School-Phone Number	7512268264

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Pathway Works				
A1	Pathway by concrete flooring: Construct a new pathway to provide a proper accessibility to wash facilities by casting 15 cm plain concrete with mix ratio 1:2:4 using BRC 6 mm, the work includes laying a layer of crushed stone or gravel and compacting it properly (below the concrete layer), The surface should be smooth and fair face with out segregation and cracks, the work includes remove the damaged flooring if exist and making concrete joints by concrete cutter. The price include forming work, removing the existing damaged pathway and All works must be according to the requests and instructions of site engineer. The price include remove old floor.	m3	3.0		
Total					
B	Roof Works				

B1	Waterproofing of school roof. Apply sealing product according to manufacturer's instructions and the work includes clean the roof surface using water jet and the roof should be very clean then fix all the cracks before applying the material. Apply the water primer coat then the UV material (Using Kalekim 4004 structural repairing mortar, 4505 Kalekim primer, 3027 UV resistance water proofing mortar and water proofing tape 3501 for expansion and construction joints. All the work and application instruction should be taken from the site engineer. the work includes the repairing of cracks in walls by using Kalekim 4004 structural repairing mortar	m2	10		
Total					
C	Windows and Doors				
C1	Repairing Steel Gate Door (School gate door) : supplying and fixing of all required locks, hinges, etc. & removal of old doors & frames (if exist) install a new frame door and repair of all damages that may occur to the wall or finish due to the replacement process, and the work includes plastering the frame of the door with cement:sand plastering and 15 cm around the frame with oil painting this frame. All metal surfaces should be painted, primed with anti-corrosion paint with two layers of oil paint	No	1		
C2	Door Locks (classroom): Supply door locks for Classroom doors and fix by good quality door handles with locks (for internal doors, steel door), approved by the technical supervising engineer.	No	10		
Total					
D	Sanitary Works				
D1	GI water tank: Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on the roof of school. the price including Installing of PPR pipes (3/4 inches diameter) connections to the existing system, fittings, taps, and float valves, with required completion work, according to instruction of supervisor engineer.	No	10.0		
D2	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand, best quality) and metallic cleaning hose (Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose). Including all required work.	No	10.0		
D3	Water Tap: Provide & Install 3/4" Plastic Water PPR Tap Turkish Made, According to Technical Engineer Recommendations.	No	10.0		
D4	PPR Water Pipes: Supply & installing new 3/4" PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	50.0		

D5	Water heater: Providing , installation and testing of heigh quality Electrical water heater (good origion)(double plate),200 liter capacity, and all associated electrical work (electric wire 3*4mm2, circuit breaker),(the cost includes its installation and pipes with pipes connections with water tank).	Pcs	1.0		
D6	Eastern Toilet Base: Provide and install white new ceramic toilet pan common dimensions. The price includes installing 4 inch gully trap and casting floor concrete ,supply and installing 1/2" tap, according to the technical specifications, the price includes removal of the old toilet pan (if exist).	No	2.0		
D7	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	75		
D10	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (40×40×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	4		
Total					
E	Electrical Works				
E1	Wiring:Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	100.0		
E2	Wiring:Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	100.0		
E3	Supply and install Ventilation fan exhaust fan white in colour Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, colour turning resistant, 6" in size. 220V 50Hz. With wiring and sockets and plugs.include all required work.	Pcs	4.0		
E4	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	10.0		

E5	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase, 12 circuit breaker, with containing busbar, gage reading voltage, Hz and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	3		
Total					
F	Septic tank and Cesspool Works				
F1	Disludging the Septic Tank- Size max.20 m3. Price includes: opening manholes, celan and properly close manhole cover after disludging.	No	1		
Total					
G	Drilling Borehole				
G1	Borehole work: Repairing existing water borehole, by providing submersable pump 1" diameter (Italy market) water pipe PPR 1" diameter water pipes from submersable pump to water tank at the top of building about (90 m), stand pipe with concrete apron, , fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) standard ,and holding cable with steel roller) and providing all material ,(electric conections with starter and electric circute breaker) the Water line of 1" water PPR pipe from submersible pump in the water borehole and connecting water tanks on top of roof of school, the Price includes all necessary materials for a full set installation.	no	1		
Total					
Grand Total/USD					

Pathway Works	
Roof Works	
Windows and Doors	
Sanitary Works	
Electrical Works	
Septic tank and Cesspool Works	
drilling borehole	
Grand Total/USD	

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IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

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BOQ TOTAL ESTIMATED COST in USD:



ACTUAL MEASUREMENT COSTS in USD:

Level of Needs	Major Repair
Project Number/Donor	IQFM1846/GIZ
School Director	Atalah Ahmed Muhamed
BoQ Number	BoQ 3
Reference Number	B-S-003
City	Baaj
District	Baaj
Address	AL-Qadisia Sector, Baaj-Ninawa
GPS Coordinate-Longitude	41.7140223
GPS Coordinate-Latitude	36.0378053
BoQ done By	Aziz Bajo and Steafal Polas
School Name	Al -Ashari for boys
Number of Classrooms	12
School-Phone Number	750163014

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
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A	Miscellaneous Works				
A1	Painting: Supply and apply water emulsion Exterior paint. Two finishing coats in addition to under coat. Emulsion paint on plastered surfaces include removing all defected surfaces, preparation of surfaces, sanding, cleaning, application of thin putty filler as required. The colour of the paint and source of the material is subject to the Engineer's approval.	m2	1200		
A2	Painting:Supply and apply water emulsion paint with acrylic base. Three finishing coats in addition to under coat. Emulsion paint on plastered surfaces include removing all defected surfaces, preparation of surfaces, sanding, cleaning, application of thin putty filler as required. The colour of the paint and source of the material is subject to the Engineer's approval.	m2	400		
A3	Oil Painting:Supply material & paint the internal walls of the. with 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The colour of the paint will be assigned by the engineer.	m2	300		
Total					
B	Windows and Doors				
B1	Steel Doors :Supply and install steel hinged doors, with frame 2 x 2", 5 mm thick steel angle , plated on both side steel plate gauge 18. All metal surfaces should be painted, primed with anti-corrosion paint with two layers of oil paint. supplying and fixing of all required locks, hinges, etc. & removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, and the work includes plastering the frame of the door with cement:sand plastering and 15 cm around the frame with oil painting this frame.	m2	4		
B2	Repairing Steel Doors (1*2 m) : supplying and fixing of all required locks, handles, hinges,and welding broken parts, etc. and repair of all damages that may occur to the wall or finish due to the repairing process, and the work includes plastering the frame of the door with cement:sand plastering and 15 cm around the frame with oil painting this frame.All metal surfaces should be painted with 2 coat of anti-corrosion base and 2 coat of oil paint, primed with anti-corrosion paint with two layers of oil paint	No	20		
B3	PVC Doors:Supply materials and install new PVC doors complete with the frames. key locks & painted & glass where required , PVC door frame should be supported by steel , the work Includes removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, also wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame.	m2	9		

B4	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	M2	36		
B5	Door Locks for gate door:Supply door locks for gate doors and fix by good quality door handles with locks (for internal doors, steel door), approved by the technical supervising engineer.	No	2		
Total					
C	Sanitary Works				
C1	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves,with required completion work	No	8.0		
C2	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose (Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose)- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	6.0		
C3	New handwash basins for all WCs. Supply and install handwash basins 40x60cm ,handwash basin (Vita or Sanit brands or similar brand,best quality). The basins are equipped with taps mixer chrome type,connection pipes PPR 1/2 inches, and all works and fittings.	No	4.0		
C4	Water Tap: Provide & Install ¾" Plastic Water PPR Tap Turkish Made, According to Technical Engineer Recommendations.	No	10.0		
C5	Water heater: Providing , installation and testing of heigh quality Electrical water heater (good origion)(double plate),200 liter capacity, and all associated electrical work (electric wire 3*4mm2, circuit breaker),(the cost includes its installation and pipes with pipes connections with water tank).	Pcs	1.0		
C6	Supply and install plastic manholes 40cm *40cm in dimensions with hardened plastic cover and four holes according to the pipe diameters in each side and 30cm in height to connect all pipe types. All works and dimensions should be done according to the drawings.	Pcs	4.0		

C7	PPR Water Pipes:Supply & installing new 3/4"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	40.0		
C8	Eastern Toilet Base: Provide and install white new ceramic toilet pan. The price includes installing 4 inch gully trap and casting floor concrete ,supply and installing 1/2" tap, according to the technical specifications, the price includes removal of the old toilet pan (if exist).	No	6.0		
C9	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	50		
C10	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	50		
C11	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (40×40×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	12		
Total					
D	Electrical Works				
D1	Supply and install Ventilation fan exhaust fan white in colour Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, colour turning resistant, 6" in size. 220V 50Hz. With wiring and sockets and plugs.include all required work.	Pcs	7.0		
D2	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	100.0		
D3	Supply and install exterior water proof lamp, Lamps (wall mounted),lamp, base and lamp with plastic cover,36Watt,water proof wall mounting, water proof wall mounting, white snow colour circular plastic shape, with wiring (2*1.5mm2), sockets and all wire installation and fittings.	Pcs	20.0		
D4	Supply and install Socket switch (4 line) 5 Amp. for lighting,4 gang 1 way 10AX and 250V,82mm*82mm plastic face and switches with 16mm in depth, white colour, with delivering to the site	Pcs	30.0		

D5	Power connection line, from public power line to main building, cable (4*10 mm2) Turkish standard, over ground, usual quality and dimensions, installing connections to the electrical system (electric main board), the price include installation and fixing steel column on the building.	m.l	50		
D6	Main Electrical board: Providing , installation and testing new main electric board (iron plate with dimension 40cm *40 cm ,2mm thickness) with main circuit breaker best quality (Ui=AC660 V,ue=AC 360 V (50Hz/60Hz),In =250 A ,,Te=+40°C), and two circuits each 100 amp, containing busbar, gage reading voltage,HZ and amperage) with all accessories and fittings.	no	1		
D7	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase,12 circuit breaker, with containing busbar, gage reading voltage,HZ and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	3		
Total					
E	Septic tank and Cesspool Works				
E1	Disludging the Septic Tank- Size max.20 m3. Price includes: opening manholes, celan and properly close manhole cover after disludging.	No	1		
Total					
F	Drilling Borehole				
F1	Borehole work: Repairing existing water borehole,by providing new submersable pump 1" diameter (Italy market) water pipe PPR 1" diameter water pipes from submersable pump to water tank at the top of building about (95 m),stand pipe with concrete apron, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2)standard ,and holding cable with steel roller) and providing all material ,(electric conections with starter and electric circute breaker) the Water line of 1" water PPR pipe from submersible pump in the water borehole and connecting water tanks on top of roof of school, the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Miscellaneous Works	
Windows and Doors	

Sanitary Works	
Electrical Works	
Septic tank and Cesspool Works	
drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

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IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

BOQ TOTAL ESTIMATED COST in USD:	Level of Needs	Minor Repair
	Project Number/Donor	IQFM1846/GIZ
	School Director	Othman Hassan Abaas
	BoQ Number	BoQ 4
	Reference Number	B-S-004
	City	Baaj
	District	Baaj
	Address	Alrsala sector, Baaj
	GPS Coordinate-Longitude	41.71207988
	GPS Coordinate-Latitude	36.04477348
BoQ done By		Aziz Bajo and Steafal Polas

ACTUAL MEASUREMENT COSTS in USD:	School Name	Zarqaa Al-Yamama
	Number of Classrooms	12
	School-Phone Number	7508731615

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Windows and Doors				
A1	Steel Doors: Supply and install steel hinged doors, with frame 2 x 2", 5 mm thick steel angle, plated on both side steel plate gauge 18. All metal surfaces should be painted, primed with anti-corrosion paint with two layers of oil paint. supplying and fixing of all required locks, hinges, etc. & removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, and the work includes plastering the frame of the door with cement:sand plastering and 15 cm around the frame with oil painting this frame.	m2	10		
A2	PVC Windows:Supply & install new PVC windows, with the ability to open and lock. Work includes all the required accessories (glass, handles, hinges,wire meshetc.) and fixing according to the required access and attached drawings. Work includes wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame. Works includes removing old windows (if exists).	m2	10		
A3	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper ,the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames.before repainting in case of steel windows) .the price include repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	50		
A4	Toilets door Locks :Supply, install and fix good quality door handles with locks (special types for toilet to be locked from inside of toilet),the price include any further work or welding to make door locks properly functioning, door lock should be approved by the technical supervising engineer.	No	6		
A5	Door Locks (Interior):Supply and fix of best quality door handles with locks (for internal doors), approved by the technical supervising engineer.	No	30		
A6	Window Locks:Supply and fix of best quality window handles (forSteel /PVC windows), approved by the technical supervising engineer.	No	20		
Total					
B	Sanitary Works				

B1	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on the roof of school.the price including Installing of PPR pipes (3/4 inches diameter) connections to the existing system, fittings ,taps, and float valves,with required completion work , according to instruction of supervisor engineer.	No	4.0		
B2	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose (Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose)- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	1.0		
B3	metallic cleaning: hose- for Girls WC, Boys WC and teachers' WC. Including all required work.Handheld Sprayer Toilet Bathroom, washing Cleaning, with Wall Bracket Hose and , (Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose)	No	6.0		
B4	Water Tap: Provide & Install 3/4" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	8.0		
B5	Supply and connect water mixer (Brass heavy duty) of diameter (1/2 inch or 3/4 inches) of good quality, for hand wash basins.	Pcs	3.0		
B6	Water heater: Providing , installation and testing of heigh quality Electrical water heater (good origion)(double plate),200 liter capacity, and all associated electrical work (electric wire 3*4mm2, circuit breaker),(the cost includes its installation and pipes with pipes connections with water tank).	Pcs	1.0		
B7	PPR Water Pipes:Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	20.0		
Total					
C	Electrical Works				
C1	Wiring:Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	50.0		
C2	Wiring:Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	50.0		
C3	Electricity Cable wire type (4*16) for installation the main Cable electric to the main Box inside Education site according to the instruction of Electricity administration of the area and local authorities	ML	175.0		

C4	Supply and install Ventilation fan exhaust fan white in colour Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, colour turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	8.0		
C5	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	110.0		
C6	Supply and install Socket switch (4 line) 5 Amp. for lighting,4 gang 1 way 10AX and 250V,82mm*82mm plastic face and switches with 16mm in depth, white colour, with delivering to the site	Pcs	16.0		
C7	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase,12 circuit breaker, with containing busbar, gage reading voltage,HZ and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	1		
Total					
D	Drilling Borehole				
D1	Borehole work: Repairing existing water borehole, with providing and installation water pipe PPR 1" diameter water pipes from submersable pump to water tank at the top of building about (100m length) ,stand pipe with concrete apron, submersable pump, 1" diameter (Italy market) steel pipe connection, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) (about 90 m)Turkish made ,and holding cable with steel roller) and providing all material ,(electric conections with starter and electric circute breaker) the Water line of 1" water PPR pipe, connecting water borehole and water tanks on top of roof , the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Doors and Windows	
Sanitary Works	
Electrical Works	
Drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

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IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

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BOQ TOTAL ESTIMATED COST in USD:



ACTUAL MEASUREMENT COSTS in USD:

Level of Needs	Major Repair
Project Number/Donor	IQFM1846/GIZ
School Director	Sfok Hlel Saleh
BoQ Number	BoQ 5
Reference Number	B-S-005
City	Baaj
District	Baaj
Address	Baa town, Hateen neighbourhood
GPS Coordinate-Longitude	36.04589322
GPS Coordinate-Latitude	41.72336075
BoQ done By	Aziz Bajo and Stefal Yousif
School Name	Al-Baaj Preparatory
Number of Classrooms	30
School-Phone Number	7509307106

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Windows and Doors				

A1	Steel Doors :Supply and install steel hinged doors, with frame 2 x 2", 5 mm thick steel angle , plated on both side steel plate gauge 18. All metal surfaces should be painted, primed with anti-corrosion paint with two layers of oil paint. supplying and fixing of all required locks, hinges, etc. & removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, and the work includes plastering the frame of the door with cement:sand plastering and 15 cm around the frame with oil painting this frame.	m2	14		
A2	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	106		
A3	Existing door work: welding broken parts, providing good quality door lock with door handles, door hinges and repairing surrounding door with gypsum plaster if needed. with all required work with all accessories and fittings according to the supervisor engineer.	No	20		
Total					
B	Sanitary Works				
B1	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves,with reguired completion work	No	4.0		
B2	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose (Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose)- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	1.0		
B3	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	10.0		
B4	Supply and connect water mixer (Brass heavy duty) of diameter (1/2 inch) of good quality (UAE or Turkish Origin)	Pcs	9.0		
B5	Water heater: Providing , installation and testing of heigh quality Electrical water heater (good origion)(double plate),200 liter capacity, and all associated electrical work (electric wire 3*4mm2, circuit breaker),(the cost includes its installation and pipes with pipes connections with water tank).	Pcs	1.0		
B6	Toilet work: cleaning the existing toilet, opening the blocked and clogged toilet, fixing any brocken sanitation pipes through providing new PVC 4inches diameter pipes 6 bar, repairing flushing tanks, providing new Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose.	No	10.0		

B7	Manhole cover: supply and provide steel manhole covers with dimensions (40*40cm), 4mm plate thickness, the price include manhole base and proper lock.	No	4.0		
B8	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	75		
Total					
C	Electrical Works				
C1	Wiring:Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	60.0		
C2	Wiring:Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	60.0		
C3	Supply and install Ventilation fan exhaust fan white in colour Super slim Suitable for installing on window or glass (15cm*15cm), Full plastic body, colour turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	3.0		
C4	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	130.0		
C5	Supply and install Socket switch (4 line) 5 Amp. for lighting,4 gang 1 way 10AX and 250V,82mm*82mm plastic face and switches with 16mm in depth, white colour, with delivering to the site	Pcs	33.0		
C6	Power connection line, from public power line to main building, cable (4*16 mm2) Turkish standard, over ground, usual quality and dimensions, installing connections to the electrical system (electric main board),the price include installation and fixing steel column on the building.	m.l	80		
C7	Main Electrical board: Providing, installation and testing the existing main electric board (iron plate with main circuit breaker best quality (Ui=AC660 V,ue=AC 360 V (50Hz/60Hz),In =250 A ,Te=+40°C),containing busbar, gage reading voltage,HZ and amperage) with all accessories and fittings.	no	1		

C8	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase, 12 circuit breaker, with containing busbar, gage reading voltage, Hz and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	4		
Total					
D	Septic tank and Cesspool Works				
D1	Disludging the Septic Tank- Size max.20 m3. Price includes: opening manholes, celan and properly close manhole cover after disludging.	No	1		
Total					
E	Drilling Borehole				
E1	Borehole work: Borehole work: New water well, through Drilling borehole using Syrian drilling machine, common standard, dia 350 mm to 250 mm, around 80 m deep, installing casing PVC pipe 200 * 5.9 mm, with water pipe PPR 1" diameter water pipes from submersable pump to water tank at the top of building, special gravel for filters size (8 - 5.6) mm, stand pipe with concrete apron, submersable pump, 1" (Italy market), fittings, wiring, electrical connection, full set installation. The price includes also, electric cable (2*4mm2) standard, and holding cable with steel roller) and providing all material, (electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe from submersible pump in the water borehole and connecting water tanks on top of roof of school, the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Windows and Doors	
Sanitary Works	
Electrical Works	
Septic tank and Cesspool Works	
Drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

Tender submission should include relevant work experience and proof of certification of workers to undertake complex electrical repairs.

All repairs must be commissioned, tested, and proved functional by the contractor under the supervision of NRC and DoE Field Engineers. All costs of the commissioning are the responsibility of the contractor.

Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

BOQ TOTAL ESTIMATED COST in USD:

Level of Needs	Major Repair
Project Number/Donor	IQFM1846/GIZ
School Director	Abdlrzaq Mohamed Aaed
BoQ Number	BoQ 6
Reference Number	B-S-006
City	Kharab Al-Arna village
District	Baaj
Address	Kharab Al-Arna village, Baaj-Nineveh
GPS Coordinate- Longitude	41.733022
GPS Coordinate-Latitude	36.096849
BoQ done By	Aziz Bajo and Stefal Polas
School Name	Kharab Al-Arna
Number of Classrooms	6
School-Phone Number	7502043051



ACTUAL MEASUREMENT COSTS in USD:

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
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A	Windows and Doors				
A1	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	12		
A2	Repairing Gate door: Supply and fix of door handles with locks (for gates and exterior doors), approved by the technical supervising engineer.the price include welding broken parts, hinges and painting with base paint and two coat oil paint.	No	1		
Total					
B	Sanitary Works				
B1	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves,with required completion work	No	6.0		
B2	Eastern Toilet Base: Provide and install white new ceramic toilet pan. The price includes installing 4 inch gully trap and casting floor concrete ,supply and installing 1/2" tap, according to the technical specifications, the price includes removal of the old toilet pan (if exist).and PVC pipes 4 inches diameter and 6 bar, from toilt to septic tanks.including all elbows, unions, joints and all fittings.	No	9.0		
B3	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose (Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose)- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	9.0		
B4	Water Tap: Provide & Install ¾" Plastic Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	15.0		
B5	Handwash: Supply and fix new white ceramic hand wash basin size 50 cm x 50 cm good quality (approved by technical site engineer). Complete with all water supply connections , plug and chain, water mixer good quality (approved by technical site engineer), Ceramic pedestal 90 cm minimum, and 2" drainage line to floor trap according to specifications, and engineer's instructions.	No	2.0		
B6	Supply and connect water mixer(Brass heavy duty) of diameter (1/2 inch) of good quality (UAE or Turkish Origin)	Pcs	4.0		

B7	Replacement of damaged water service line with new HDPE pipe (1inch) buried 50 cm below NSL, the price include excavation of 0.3m width 0.45m height to lay down HDPE pipe, the price includes backfilling fine soil free from hard materials, all valves and taps. All the work should be according to Iraqi specification and engineer satisfaction.	m.l	250.0		
B8	Supply and install plastic manholes 40cm *40cm in dimensions with hardened plastic cover and four holes according to the pipe diameters in each side and 30cm in height to connect all pipe types. All works and dimensions should be done according to the drawings.	Pcs	2.0		
B9	PPR Water Pipes:Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	60.0		
B10	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	50		
B11	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	120		
B12	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (40×40×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	16		
Total					
C	Electrical Works				
C1	Wiring:Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
C2	Wiring:Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	80.0		

C3	Supply and install Ventilation fan exhaust fan white in colour Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, colour turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	10.0		
C4	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	30.0		
C5	Supply and install exterior water proof lamp, Lamps (wall mounted),lamp, base and lamp with plastic cover,36Watt,water proof wall mounting, water proof wall mounting, white snow colour circular plastic shape, with delivering to the site	Pcs	4.0		
C6	Supply and install Socket switch (4 line) 5 Amp. for lighting,4 gang 1 way 10AX and 250V,82mm*82mm plastic face and switches with 16mm in depth, white colour, with delivering to the site	Pcs	10.0		
C7	Power connection line, from public power line to main building, cable (4*16 mm2) Turkish standard, over ground, usual quality and dimensions, installing connections to the electrical system (electric main bord),the price include installation and fixing steel column on the building.	m.l	80		
C8	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase,12 circuit breaker, with containing busbar, gage reading voltage,HZ and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	1		
Total					
D	Septic tank and Cesspool Works				
D1	Disludging the Septic Tank- Size max.20 m3. Price includes: opening manholes, celan and properly close manhole cover after disludging.	No	1		
Total					
E	Drilling Borehole				

E1	Borehole work: Repairing existing water borehole, with providing and installation water pipe PPR 1" diameter water pipes from submersable pump to water tank at the top of building about (90m length) ,stand pipe with concrete apron, submersable pump, 1" diameter (Italy market) steel pipe connection, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) (about 90 m)Turkish made ,and holding cable with steel roller) and providing all material ,(electric conections with starter and electric circute breaker) the Water line of 1" water PPR pipe, connecting water borehole and water tanks on top of roof , the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Doors and Windows	
Sanitary Works	
Electrical Works	
Septic tank and Cesspool Works	
drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

Tender submission should include relevant work experience and proof of certification of workers to undertake complex electrical repairs.

All repairs must be commissioned, tested, and proved functional by the contractor under the supervision of NRC and DoE Field Engineers. All costs of the commissioning are the responsibility of the contractor.

Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

  FLYKTNINGHJELPEN NORWEGIAN REFUGEE COUNCIL	BOQ TOTAL ESTIMATED COST in USD:	Level of Needs	Major Repair
		Project Number/Donor	IQFM1846/GIZ
		School Director	Ahmed Hussen Ali
		BoQ Number	BoQ 7
		Reference Number	B-S-007
		Village	Tell Khaleel
		District	Baaj
		Address	Tell Khaleel village
		GPS Coordinate-Longitude	36.05711889
		GPS Coordinate-Latitude	41.61452425
		BoQ done By	Aziz Bajo and Steafal Polas
	ACTUAL MEASUREMENT COSTS in USD:	School Name	Tell Khaleel mixed primary
		Number of Classrooms	6
		School-Phone Number	7507789572

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Windows and Doors				
A1	Existing door work: welding broken parts, providing good quality door lock with door handles, door hinges and repairing surrounding door with gypsum plaster if needed. with all required work with all accessories and fittings according to the supervisor engineer.	No	6		
A2	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,welding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	12		
Total					
B	Pathway Works				

C2	Construct new pathway to provide accessibility from school gate to the middle of the school by cast 10 cm plain concrete 1:2:4 mix using BRC 6 mm, the work includes laying a layer of crushed stone or gravel and compacting it properly (below the concrete layer), The surface should be smooth and fair face with out segregation and cracks, the work includes remove the damaged flooring if exist and making concrete joints by concrete cutter with filling with joint materials.the price include forming work and All works must be according to the requests and instructions of site engineer.	m3	60		
Total					
C	Construction New Toilet				
C1	Concrete Footing: Supply materials tools and machines and cast reinforced concrete for the strip footing 40X30 cm with mix ratio (1:1.5:3) and using steel reinforcement bars 12 mm Dia. and 10mm dia.(according to the scope of work and drawings) ,the price includes excavation in all type of soil and putting a layer of sub base 10 cm thick with adequate compaction under the footings.and layer of nylon, all works should be according to NRC engineer instructions.	m3	2		
C2	Concrete Flooring: Cast 15 cm plain concrete 1:2:4 mix using BRC 6 mm, the work includes laying a layer of crushed stone or gravel and compacting it properly (below the concrete layer), The surface should be smooth and fair face with out segregation and cracks, the work includes remove the damaged flooring if exist and making concrete joints by concrete cutter with filling with joint materials.the price include forming work and All works must be according to the requests and instructions of site engineer.	m3	2		
C3	Concrete slab: Supply and cast 15cm concrete slab. Concrete should be class C 1:2:4 mix (21Mpa). Using steel bar #12mm in both direction @25 C/C works include deforming(formwork). Concrete must be regularly watered during curing process and also should be vibrated by using suitable vibrator, to prevent cracking and tools should use during casting process. Steel reinforcement bars must be in follows specifications, Yield strength of 250Mpa. All supplied steel bars must be rust free. High tensile strength wires should be used for all steel fixing. Plastic Rebar Clip Chair Spacer is used and ensure that Rebar free from rust. the poured area should be levelled, All works to be according to the specification, drawings and instruction of site engineer.	m3	2		
C4	Nylon Covering: Supply and spread layer of Nylon, 1.00 mm thick, on compacted soil. The Nylon should spread in a proper way in the foundation place or any other needed place as per requests. Site engineer must ensure that all the excavated area are covered by nylon without any exception. Nylon works should be according to engineering specifications and requests of site engineer.	m2	15		
C5	PVC Doors:Supply materials and install new PVC doors complete with the frames. key locks & painted & glass where required , PVC door frame should be supported by steel , the work Includes removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, also wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame.	m2	3		

C6	PVC Windows:Supply & install new PVC windows, with the ability to open and lock. Work includes all the required accessories (glass, handles, hinges,wire meshetc.) and fixing according to the required access and attached drawings. Work includes wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame. Works includes removing old windows (if exists).	m2	0.5		
C7	Concrete Solid Block (20X20X40 cm): Construct new walls by masonry building with concrete solid block (20X20X40 cm) using ordinary Portland cement/sand mortar of 1:3 ratio. Solid blocks should be used in case of need to raise the level of the foundation and to construct a retaining and support walls on the concrete foundation according to the site engineer requests. Concrete solid blocks should be at the same required measurement and not broken or severed and thickness of cement mortar should be no less than 2cm.the wall should be leveled verticality and alignment, Walls should be sprayed with water during 2 days. All works and dimensions should be done according to the requests and instructions of site engineer.	m3	5		
C8	Cement Plastering:Plastering the internal walls & ceilings with 2 layers of cement:sand(smooth) mix (1:3) , with taking into consideration the verticality and alignment of the surfaces according to the technical specifications, the work includes fixing wire mesh over the steel lintels of doors and windows and watering. If applicable.the price include filling concrete block joints in inner and outer sides of the wall. All block gaps and block joints should be filled horizontally and vertically using ordinary Portland cement / sand and sand must be sieved before mixing it with cement and mortar should be with 1:3 ratio. Filled gaps should be smooth. Cement plastering should be done according to instructions of site engineer.	m2	25		
C9	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	50		
C10	Wall Tiles work: Supply and install Turkish tiles (40cm*40cm *(3) cm) (W, L, T) with cement sand mortar the price includes removing the existing wall tiles or any other wall plastering (if exist) preparing roof and providing all material (cement, sand, gypsum paste between tiles). The work should be according to the instructions of supervisor engineer	m2	15		
C11	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (40×40×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	10		
C12	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves,with required completion work	No	2.0		

C13	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	2.0		
C14	Hand wash basin : Supply and install new handwash basins for all WCs. Supply and install handwash basins 40x60cm (Vita or Sanit brands or similar brand,best quality). The basins are equipped with taps mixer,connection pipes 1/2 inches diameter, connection from water tank, and all works and fittings.	No	1.0		
C15	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	2.0		
C16	Supply and connect water mixer (Brass heavy duty) of diameter (1/2 inch) of good quality (UAE or Turkish Origin)	Pcs	1.0		
C17	Supply and install plastic manholes 40cm *40cm in dimensions with hardened plastic cover and four holes according to the pipe diameters in each side and 30cm in height to connect all pipe types, with delivering to Debaga camp. All works and dimensions should be done according to the drawings.	Pcs	2.0		
C18	PPR Water Pipes: Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	25.0		
C19	Eastern Toilet Base: Provide and install white new ceramic toilet pan. The price includes installing 4 inch gully trap and casting floor concrete ,supply and installing 1/2" tap, according to the technical specifications, the price includes removal of the old toilet pan (if exist).	No	2.0		
Total					
D	Sanitary Works				
D1	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves,with required completion work	No	2.0		

D2	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	2.0		
D3	Hand wash basin : Supply and install new handwash basins for all WCs. Supply and install handwash basins 40x60cm (Vita or Sanit brands or similar brand,best quality). The basins are equipped with taps mixer,connection pipes 1/2 inches diameter, connection from water tank, and all works and fittings.	No	1.0		
D4	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	2.0		
D5	Supply and connect water mixer (Brass heavy duty) of diameter (1/2 inch) of good quality (UAE or Turkish Origin)	Pcs	1.0		
D6	Oil Painting for existing Toilets:Supply material & paint the internal walls of the WC & kitchen. with 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The colour of the paint will be assigned by the engineer.	m2	25		
D7	Cleaning existing WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	30		
Total					
E	Electrical Works				
E1	Supply and install Ventilation fan exhaust fan white in colour Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, colour turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	4.0		
E2	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	20.0		

E3	Supply and install exterior water proof lamp, Lamps (wall mounted), lamp, base and lamp with plastic cover, 36Watt, water proof wall mounting, water proof wall mounting, white snow colour circular plastic shape, with delivering to the site	Pcs	2.0		
E4	Power connection line, from public power line to main building, cable (4*10 mm2) Turkish standard, over ground, usual quality and dimensions, installing connections to the electrical system (electric main board), the price include installation and fixing steel column on the building.	m.l	30		
E5	Main Electrical board: Providing , installation and testing new main electric board (iron plate with dimension 60cm *40 cm ,2mm thickness) with main circuit breaker best quality (Ui=AC660 V, ue=AC 360 V (50Hz/60Hz), In =250 A , Te=+40°C), containing busbar, gage reading voltage, Hz and amperage) with all accessories and fittings.	no	1		
E6	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase, 12 circuit breaker, with containing busbar, gage reading voltage, Hz and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	1		
Total					
F	Septic tank and Cesspool Works				
F1	Disludging the Septic Tank- Size max.20 m3. Price includes: opening manholes, clean and properly close manhole cover after disludging.	No	1		
Total					
G	Drilling Borehole				
G1	Borehole work: Repairing existing water borehole, through providing and installation water pipe PPR 1" diameter water pipes from submersable pump to water tank at the top of building about (80m length) ,stand pipe with concrete apron, submersable pump, 1" diameter (Italy market) steel pipe connection, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) (about 90 m) Turkish made ,and holding cable with steel roller) and providing all material ,(electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe, connecting water borehole and water tanks on top of roof , the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Windows and Doors	
Pathway Works	
Construction New Toilet	
Sanitary Works	
Electrical Works	
Septic tank and Cesspool Works	
Drilling Borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

Tender submission should include relevant work experience and proof of certification of workers to undertake complex electrical repairs.

All repairs must be commissioned, tested, and proved functional by the contractor under the supervision of NRC and DoE Field Engineers. All costs of the commissioning are the responsibility of the contractor.

Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

BOQ TOTAL ESTIMATED COST in USD:

Level of Needs	Minor Repair
Project Number/Donor	IQFM1846/GIZ
School Director	Alaa Hussen Ibrahim
BoQ Number	BoQ 8
Reference Number	B-S-008
City	Baaj
District	Baaj
Address	Hayy Althora-Baaj
GPS Coordinate-Longitude	41.71065965

ACTUAL MEASUREMENT COSTS in USD:	GPS Coordinate-Latitude	36.03841409
	BoQ done By	Aziz Ghanim and Steafal Polas
	School Name	Abn Kather primary
	Number of Classrooms	6
	School-Phone Number	7507499423

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Windows and Doors				
A1	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them (The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	12		
A2	Door Locks (Interior):Supply and fix of best quality door handles with locks (for internal doors), approved by the technical supervising engineer.	No	6		
Total					
B	Roof Works				
B1	Waterproofing of school roof. Apply sealing product according to manufacturer's instructions and the work includes clean the roof surface using water jet and the and the roof should very clean then fix all the cracks before applying the material .Apply the water primer coat then the UV material (Using Kalekim 4004 structural repairing mortar ,4505 Kalekim primer,3027 UV resistance water proofing mortar and water proofing tape 3501 for expansion and construction joints .All the work and application instruction should be taken from the site engineer . the work includes the repairing of cracks in walls by using Kalekim 4004 structural repairing mortar	m2	50		
Total					
C	Wall works				
C1	Crack repairing : Supply and providing all materials ,tools to prepare all cracks in all walls,by skimming wall to stone wall and making holes to wall and fixing reinforced bars 6 mm and intering steel sheet to crack (with crack width) and filling with epoxy ,including all finish work(plastering the surface by cement-sand mortar layer or gypsum plaster upper layer)	m.l	20		

Total					
D	Pathway work				
D1	Construct new pathway to provide accessibility from school gate to the middle of the school by cast 10 cm plain concrete 1:2:4 mix using BRC 6 mm, the work includes laying a layer of crushed stone or gravel and compacting it properly (below the concrete layer), The surface should be smooth and fair face with out segregation and cracks, the work includes remove the damaged flooring if exist and making concrete joints by concrete cutter with filling with joint materials.the price include forming work and All works must be according to the requests and instructions of site engineer.	m2	25		
Total					
E	Sanitary Works				
E1	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	50		
E2	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	35		
E3	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (40×40×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	3		
E4	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. The price include Install PPR pipes 1/2 inches, connections to the existing system, fittings ,taps, and float valves, with required completion work	No	4.0		
E5	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	4.0		
E6	New hand wash basins for all WCs. Supply and install hand wash basins 40x60cm . The basins are equipped with taps mixer, connection pipes and all works and fittings.(base of disable use hand wash should be hidden in wall)	No	2.0		

E7	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	9.0		
E8	PPR Water Pipes: Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	30.0		
Total					
F	Electrical Works				
F1	Wiring:Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
F2	Wiring:Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
F3	Supply and install Ventilation fan exhaust fan white in color Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, color turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	6.0		
Total					
G	Septic tank and Cesspool Works				
G1	Dislodging the Septic Tank- Size max.20 m3. Price includes: opening manholes, clean and properly close manhole cover after dislodging.	No	1		
Total					
H	Drilling Borehole				
H1	Borehole work: Repairing existing water borehole, with providing and installation water pipe PPR 1" diameter water pipes from submersible pump to water tank at the top of building about (100m length) ,stand pipe with concrete apron, submersible pump, 1" diameter (Italy market) steel pipe connection, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) (about 90 m)Turkish made ,and holding cable with steel roller) and providing all material ,(electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe, connecting water borehole and water tanks on top of roof , the Price includes all necessary materials for a full set installation.	no	1		
sub total					

Grand Total/USD	
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Doors and Windows	
Roof Works	
Wall work	
Pathway work	
Sanitary Works	
Electrical Works	
Septic tank and Cesspool Works	
drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

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IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

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BOQ TOTAL ESTIMATED COST in USD:

Level of Needs	Major Repair
Project Number/Donor	IQFM1846/GIZ
School Director	Saleh Ahmed Sheel
BoQ Number	BoQ 9
Reference Number	B-S-009

ACTUAL MEASUREMENT COSTS in USD:	Village	Sroj
	District	Baaj
	Address	Sroj village, Baaj, Ninawa
	GPS Coordinate-Longitude	41.71700609
	GPS Coordinate-Latitude	36.01210447
	BoQ done By	Aziz Bajo and Stefal polas
	School Name	Alsafa mixed primary
	Number of Classrooms	6
	School-Phone Number	7518931559

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Construction new toilet				
A1	Excavation and Compaction :Excavation include all types of soils and even rocky, for the foundations of building, sidewalk and septictank according to dimensions and levels shown in the drawings with refill all places which necessary during work and compact it in good way. the price include a layer of sub-base 10cm after finishing excavation and removing the resultant soil to place specified by municipality.	m3	2.2		
A2	Concrete Footing: Supply materials tools and machines and cast reinforced concrete for the strip footing 40X30 cm with mix ratio (1:1.5:3) and using steel reinforcement bars12 mm Dia.and 10mm dia.(according to the scope of work and drawings) ,the price includes excavation in all type of soil and putting a layer of sub base 10 cm thick with adequate compaction under the footings. And layer of nylon, all works should be according to NRC engineer instructions.	m3	2.2		
A3	Concrete Flooring: Cast 15 cm plain concrete 1:2:4 mix using BRC 6 mm, the work includes laying a layer of crushed stone or gravel and compacting it properly (below the concrete layer), The surface should be smooth and fair face with out segregation and cracks, the work includes remove the damaged flooring if exist and making concrete joints by concrete cutter with filling with joint materials. The price include forming work and All works must be according to the requests and instructions of site engineer.	m3	3.5		
A4	Nylon Covering: Supply and spread layer of Nylon, 1.00 mm thick, on compacted soil. The Nylon should spread in a proper way in the foundation place or any other needed place as per requests. Site engineer must ensure that all the excavated area are covered by nylon without any exception. Nylon works should be according to engineering specifications and requests of site engineer.	m2	12		

A5	Concrete slab: Supply and cast 15cm concrete slab. Concrete should be class C 1:2:4 mix (21Mpa). Using steel bar #12mm in both direction @25 C/C works include deforming(formwork). Concrete must be regularly watered during curing process and also should be vibrated by using suitable vibrator, to prevent cracking and tools should use during casting process. Steel reinforcement bars must be in follows specifications, Yield strength of 250Mpa. All supplied steel bars must be rust free. High tensile strength wires should be used for all steel fixing. Plastic Rebar Clip Chair Spacer is used and ensure that Rebar free from rust. the poured area should be levelled, All works to be according to the specification, drawings and instruction of site engineer.	m3	2.2		
A6	Concrete Hollow Block (20X20X40):Provide and build concrete hollow block (20X20X40 cm) with weight not less than 22 KG with 1:3 cement mortar using ordinary Portland cement. Work include flash poin the joints between blocks from the outside and the inside and watering. The price include install steel angle lintels (2.5X2.5" and thickness 3mm) over openings of doors and windows. The work includes removing the old partitions, if exist.Concrete solid blocks should be at the same required measurement and not broken or severed and thickness of cement mortar should be no less than 2cm. Walls should be sprayed with water during 2 days. All works and dimensions should be done according to the requests and instructions of site engineer.	m3	7		
A7	Cement Plastering:Plastering the internal walls & ceilings with 2 layers of cement:sand(smooth) mix (1:3) , with taking into consideration the verticality and alignment of the surfaces according to the technical specifications, the work includes fixing wire mesh over the steel lintels of doors and windows and watering. If applicable.the price include filling concrete block joints in inner and outer sides of the wall. All block gaps and block joints should be filled horizontally and vertically using ordinary Portland cement / sand and sand must be sieved before mixing it with cement and mortar should be with 1:3 ratio. Filled gaps should be smooth. Cement plastering should be done according to instructions of site engineer.	m2	25		
A8	PVC Doors:Supply materials and install new PVC doors complete with the frames. key locks & painted & glass where required , PVC door frame should be supported by steel , the work Includes removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, also wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame.	m2	3.4		
A9	PVC Windows:Supply & install new PVC windows, with the ability to open and lock. Work includes all the required accessories (glass, handles, hinges,wire meshetc.) and fixing according to the required access and attached drawings. Work includes wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame. Works includes removing old windows (if exists).	m2	0.6		
A10	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	24		

A11	Wall Tiles work: Supply and install Turkish tiles (40cm*40cm *(3) cm) (W, L, T) with cement sand mortar the price includes removing the existing wall tiles or any other wall plastering (if exist) preparing roof and providing all material (cement, sand, gypsum paste between tiles). The work should be according to the instructions of supervisor engineer	m2	15		
A12	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (40×40×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	10		
A13	Eastern Toilet Base: Provide and install white new ceramic toilet pan. The price includes installing 4 inch gully trap and casting floor concrete ,supply and installing 1/2" tap, according to the technical specifications, the price includes removal of the old toilet pan (if exist).	No	2.0		
A14	GI water tank: Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves, with required completion work	No	1.0		
A15	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	2.0		
A16	New hand wash basins for all WCs. Supply and install hand wash basins 40x60cm . The basins are equipped with taps mixer, connection pipes and all works and fittings.(base of disable use hand wash should be hidden in wall)	No	1.0		
A17	Rain water drainage. Repairing the existing pipes and adding new pipes and connections. Price includes: taking down the pipes, cleaning, repainting, adding the new connections and re-position them.	m.l	3.0		
A18	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	2.0		
A19	Supply and install plastic manholes 40cm *40cm in dimensions with hardened plastic cover and four holes according to the pipe diameters in each side and 30cm in height to connect all pipe types,. All works and dimensions should be done according to the drawings.	Pcs	2.0		
A20	PPR Water Pipes: Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	25.0		

A21	Supply and install PVC pipes 110mm, PVC sewer pipe 4" diameter 3.4mm thick minimum (6m./pipe) and all required fittings like elbow, socket,tee,45°elbow, end cap, Union, pipe clip reducer, to connect ceramic wash basin and eastern toilets to the manholes and then to the cesspool, with delivering to the site.	Pcs	4.0		
Total					
B	Rehabilitation of the Existing Toilet				
B1	Excavation and Compaction :Excavation include all types of soils and even rocky, for the foundations of building, sidewalk and septictank according to dimensions and levels shown in the drawings with refill all places which necessary during work and compact it in good way. the price include a layer of sub-base 10cm after finishing excavation and removing the resultant soil to place specified by municipality.	m3	2.0		
B2	Concrete Flooring: Cast 15 cm plain concrete 1:2:4 mix using BRC 6 mm, the work includes laying a layer of crushed stone or gravel and compacting it properly (below the concrete layer), The surface should be smooth and fair face with out segregation and cracks, the work includes remove the damaged flooring if exist and making concrete joints by concrete cutter with filling with joint materials. The price include forming work and All works must be according to the requests and instructions of site engineer.	m3	3.0		
B3	Cement Re-Plastering: Remove worn-out old plaster (or any other finishing) & repair all cracks in the wall and ceiling if found by using (chicken wire) and steel bars if needed , surface should be dry before re-plastering, then Re-plastering the internal walls & ceilings with 2 layers of cement: sand(smooth) mix (1:3) , with taking into consideration the verticality and alignment of the surfaces according to the technical specifications. If applicable. Cement re-plastering should be done according to instructions of site engineer.	m2	18		
B4	PVC Doors:Supply materials and install new PVC doors complete with the frames. key locks & painted & glass where required , PVC door frame should be supported by steel , the work Includes removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, also wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame.	m2	4.2		
B5	PVC Windows:Supply & install new PVC windows, with the ability to open and lock. Work includes all the required accessories (glass, handles, hinges,wire meshetc.) and fixing according to the required access and attached drawings. Work includes wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame. Works includes removing old windows (if exists).	m2	0.9		

B6	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	22		
B7	Wall Tiles work: Supply and install Turkish tiles (40cm*40cm *(3) cm) (W, L, T) with cement sand mortar the price includes removing the existing wall tiles or any other wall plastering (if exist) preparing roof and providing all material (cement, sand, gypsum paste between tiles). The work should be according to the instructions of supervisor engineer	m2	16		
B8	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (40x40x0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	12		
B9	Eastern Toilet Base: Provide and install white new ceramic toilet pan. The price includes installing 4 inch gully trap and casting floor concrete ,supply and installing 1/2" tap, according to the technical specifications, the price includes removal of the old toilet pan (if exist).	No	3.0		
B10	GI water tank: Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves, with required completion work	No	2.0		
B11	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	3.0		
B12	New hand wash basins for all WCs. Supply and install hand wash basins 40x60cm . The basins are equipped with taps mixer, connection pipes and all works and fittings.(base of disable use hand wash should be hidden in wall)	No	2.0		
B13	Rain water drainage. Repairing the existing pipes and adding new pipes and connections. Price includes: taking down the pipes, cleaning, repainting, adding the new connections and re-position them.	m.l	6.0		
B14	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	6.0		
B15	Supply and install plastic manholes 40cm *40cm in dimensions with hardened plastic cover and four holes according to the pipe diameters in each side and 30cm in height to connect all pipe types,. All works and dimensions should be done according to the drawings.	Pcs	2.0		

B16	PPR Water Pipes: Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	25.0		
B17	Supply and install PVC pipes 110mm, PVC sewer pipe 4" diameter 3.4mm thick minimum (6m.l/pipe) and all required fittings like elbow, socket,tee,45°elbow, end cap, Union, pipe clip reducer, to connect ceramic wash basin and eastern toilets to the manholes and then to the cesspool, with delivering to the site.	Pcs	2.0		
Total					
C	Windows and Doors				
C1	Steel Doors :Supply and install steel hinged doors, with frame 2 x 2", 5 mm thick steel angle , plated on both side steel plate gauge 18. All metal surfaces should be painted, primed with anti-corrosion paint with two layers of oil paint. supplying and fixing of all required locks, hinges, etc. & removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, and the work includes plastering the frame of the door with cement: sand plastering and 15 cm around the frame with oil painting this frame.	m2	12		
C2	Steel Window : Supply & install steel windows with 1.2m in height and 1m in width (dimensions should be taken from site) by using Frame of angle section 4 cm 4mm thickness, open window 40 cm, 1,25 inch, 3 mm thickness. Using steel T section for window frame in bottom line (4*2)cm with having Hole at front side. Window should be 180 degree fully openable. Windows should be provided with a locking mechanism with railway steel handle. Windows must be painted with one layer of antirust and one layer of oil painting by using silver coloured anti-rust paint. The window glass should be 4mm thick and semi-transparent.	m2	13		
C3	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	20		
C4	Window Locks: Supply and fix of best quality window handles (for Steel /PVC windows), approved by the technical supervising engineer.	No	5		
Total					
D	Miscellaneous Works				

D1	Cement Re-Plastering: Remove worn-out old plaster (or any other finishing) & repair all cracks in the wall and ceiling if found by using (chicken wire) and steel bars if needed , surface should be dry before re-plastering, then Re-plastering the internal walls & ceilings with 2 layers of cement: sand(smooth) mix (1:3) , with taking into consideration the verticality and alignment of the surfaces according to the technical specifications. If applicable. Cement re-plastering should be done according to instructions of site engineer.	m2	40		
D2	Painting: Supply and apply water emulsion paint with acrylic base. Three finishing coats in addition to under coat. Emulsion paint on plastered surfaces include removing all defected surfaces, preparation of surfaces, sanding, cleaning, application of thin putty filler as required. The color of the paint and source of the material is subject to the Engineer's approval.	m2	320		
D3	Oil Painting: Supply material & paint the internal walls of the WC & kitchen. with 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The color of the paint will be assigned by the engineer.	m2	185		
Total					
E	Roof Works				
E1	Waterproofing of school roof. Apply sealing product according to manufacturer's instructions and the work includes clean the roof surface using water jet and the roof should very clean then fix all the cracks before applying the material .Apply the water primer coat then the UV material (Using Kalekim 4004 structural repairing mortar ,4505 Kalekim primer,3027 UV resistance water proofing mortar and water proofing tape 3501 for expansion and construction joints .All the work and application instruction should be taken from the site engineer . the work includes the repairing of cracks in walls by using Kalekim 4004 structural repairing mortar	m2	115		
Total					
F	Electrical Works				
F1	Wiring: Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
F2	Wiring: Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
F3	Supply and install Ventilation fan exhaust fan white in color Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, color turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	2.0		

F4	FL- tube: Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	13.0		
F5	Supply and install exterior water proof lamp, Lamps (wall mounted),lamp, base and lamp with plastic cover,36Watt,water proof wall mounting, water proof wall mounting, white snow color circular plastic shape, with delivering to the site	Pcs	2.0		
F6	Supply and install Socket switch (4 line) 5 Amp. for lighting,4 gang 1 way 10AX and 250V,82mm*82mm plastic face and switches with 16mm in depth, white color, with delivering to the site	Pcs	6.0		
F7	Power connection line, from public power line to main building, cable (4*10 mm2) Turkish standard, over ground, usual quality and dimensions, installing connections to the electrical system (electric main board),the price include installation and fixing steel column on the building.	m.l	25		
F8	Main Electrical board: Providing , installation and testing new main electric board (iron plate with dimension 40cm *30 cm ,2mm thickness) with main circuit breaker best quality (Ui=AC660 V,ue=AC 360 V (50Hz/60Hz),In =250 A ,Te=+40°C),containing busbar, gage reading voltage,HZ and amperage) with all accessories and fittings.	no	1		
F9	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase,12 circuit breaker, with containing busbar, gage reading voltage,HZ and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	1		
Total					
G	Drilling Borehole				
G1	Borehole work: New water well, through Drilling borehole using Syrian drilling machine, common standard, dia 350 mm to 250 mm, around 80 m deep, installing casing PVC pipe 200 * 5.9 mm, with water pipe PPR 1" diameter water pipes from submersible pump to water tank at the top of building, special gravel for filters size (8 - 5.6) mm ,stand pipe with concrete apron, submersible pump, 1" (Italy market), fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2)standard ,and holding cable with steel roller) and providing all material ,(electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe from submersible pump in the water borehole and connecting water tanks on top of roof of school, the Price includes all necessary materials for a full set installation.	No	1		
sub total					
Grand Total/USD					

Construction new toilet	
Rehabilitation of the Existing Toilet	
Windows and Doors	
Miscellaneous Works	
Roof Works	
Electrical Works	
drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

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IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

BOQ TOTAL ESTIMATED COST in USD:

Level of Needs	Minor Repair
Project Number/Donor	IQFM1846/GIZ
School Director	Ayad Hussen Ismail
BoQ Number	BoQ 10
Reference Number	B-S-010
Village	Alsltan

ACTUAL MEASUREMENT COSTS in USD:

District	Baaj
Address	Alsitn, Baaj, Ninawa
GPS Coordinate-Longitude	41.69471324
GPS Coordinate-Latitude	36.04252658
BoQ done By	Aziz Ghanim and Steafal Polas
School Name	Alsitn mixed primary
Number of Classrooms	4
School-Phone Number	7508244294

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Windows and Doors				
A1	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	7		
A2	Door Locks (Interior):Supply and fix of best quality door handles with locks (for internal doors), approved by the technical supervising engineer.	No	4		
A3	Window Locks:Supply and fix of best quality window handles (forSteel /PVC windows), approved by the technical supervising engineer.	No	4		
Total					
B	Construction new toilet				
B1	Excavation: Excavation include all types of soils and even rocky, for the foundations of building, sidewalk and septic tank according to dimensions and levels shown in the drawings with refill all places which necessary during work and compact it in good way. the price include a layer of sub-base 10cm after finishing excavation and removing the resultant soil to place specified by municipality.	m3	2.5		

B2	Concrete Footing: Supply materials tools and machines and cast reinforced concrete for the strip footing 40X30 cm with mix ratio (1:1.5:3) and using steel reinforcement bars 12 mm Dia. and 10mm dia. (according to the scope of work and drawings), the price includes excavation in all type of soil and putting a layer of sub base 10 cm thick with adequate compaction under the footings. and layer of nylon, all works should be according to NRC engineer instructions.	m3	2.5		
B3	Concrete Flooring: Cast 15 cm plain concrete 1:2:4 mix using BRC 6 mm, the work includes laying a layer of crushed stone or gravel and compacting it properly (below the concrete layer), The surface should be smooth and fair face with out segregation and cracks, the work includes remove the damaged flooring if exist and making concrete joints by concrete cutter with filling with joint materials. the price include forming work and All works must be according to the requests and instructions of site engineer.	m3	1.5		
B4	Concrete slab: Supply and cast 20 cm concrete slab. Concrete should be class C 1:2:4 mix (21Mpa). Using steel bar #12mm in both direction @25 C/C works include deforming (formwork). Concrete must be regularly watered during curing process and also should be vibrated by using suitable vibrator, to prevent cracking and tools should use during casting process. Steel reinforcement bars must be in follows specifications, Yield strength of 250Mpa. All supplied steel bars must be rust free. High tensile strength wires should be used for all steel fixing. Plastic Rebar Clip Chair Spacer is used and ensure that Rebar free from rust. the poured area should be levelled, All works to be according to the specification, drawings and instruction of site engineer.	m3	2		
B5	Nylon Covering: Supply and spread layer of Nylon, 1.00 mm thick, on compacted soil. The Nylon should spread in a proper way in the foundation place or any other needed place as per requests. Site engineer must ensure that all the excavated area are covered by nylon without any exception. Nylon works should be according to engineering specifications and requests of site engineer.	m2	20		
B6	PVC Doors: Supply materials and install new PVC doors complete with the frames. key locks & painted & glass where required, PVC door frame should be supported by steel, the work Includes removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, also wall frame repair and plastering the frame with cement: sand mortar and 15 cm all around the frame with oil paint of this frame.	m2	3.2		
B7	PVC Windows: Supply & install new PVC windows, with the ability to open and lock. Work includes all the required accessories (glass, handles, hinges, wire meshetc.) and fixing according to the required access and attached drawings. Work includes wall frame repair and plastering the frame with cement: sand mortar and 15 cm all around the frame with oil paint of this frame. Works includes removing old windows (if exists).	m2	0.4		

B8	Concrete Hollow Block (20X20X40 cm): Construct new walls by masonry building with concrete hollow block (20X20X40 cm) using ordinary Portland cement/sand mortar of 1:3 ratio. Hollow blocks should be used in case of need to raise the level of the foundation and to construct a retaining and support walls on the concrete foundation according to the site engineer requests. Concrete hollow blocks should be at the same required measurement and not broken or severed and thickness of cement mortar should be no less than 2cm.the wall should be levelled vertically and alignment, Walls should be sprayed with water during 2 days. All works and dimensions should be done according to the requests and instructions of site engineer.	m3	6		
B9	Cement Plastering:Plastering the internal walls & ceilings with 2 layers of cement:sand(smooth) mix (1:3) , with taking into consideration the verticality and alignment of the surfaces according to the technical specifications, the work includes fixing wire mesh over the steel lintels of doors and windows and watering. If applicable.the price include filling concrete block joints in inner and outer sides of the wall. All block gaps and block joints should be filled horizontally and vertically using ordinary Portland cement / sand and sand must be sieved before mixing it with cement and mortar should be with 1:3 ratio. Filled gaps should be smooth. Cement plastering should be done according to instructions of site engineer.	m2	40		
B10	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	40		
B11	Wall Tiles work: Supply and install Turkish tiles (60cm*30cm *(3) cm) (W, L, T) with cement sand mortar the price includes providing all material (cement, sand, gypsum paste between tiles). The work should be according to the instructions of supervisor engineer	m2	30		
B12	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (30×30×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	8		
B13	GI water tank: Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves, with required completion work	No	2.0		
B14	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose(Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose)- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	2.0		
B15	New hand wash basins for all WCs. Supply and install hand wash basins 40x60cm . The basins are equipped with taps mixer, connection pipes and all works and fittings.(base of disable use hand wash should be hidden in wall)	No	1.0		

B16	Eastern Toilet Base: Provide and install white new ceramic toilet pan. The price includes installing 4 inch gully trap and casting floor concrete ,supply and installing 1/2" tap, according to the technical specifications, the price includes removal of the old toilet pan (if exist).	No	2.0		
Total					
C	Construction of new Septic tank and Cesspool				
C1	Excavation: Excavation include all types of soils and even rocky, for the foundations of building, sidewalk and septic tank according to dimensions and levels shown in the drawings with refill all places which necessary during work and compact it in good way. the price include a layer of sub-base 10cm after finishing excavation and removing the resultant soil to place specified by municipality.	m3	20.0		
C2	Concrete Foundation (Raft) (20 cm thickness): Supply materials tools and machines and cast reinforced concrete for the raft foundation , Concrete should be class C 1:2:4 mix (21Mpa). Using steel bar #12mm in both direction @20 C/C works include deforming(formwork). Concrete must be regularly watered during curing process and also should be vibrated by using suitable vibrator, to prevent cracking and tools should use during casting process. Steel reinforcement bars must be in follows specifications, Yield strength of 250Mpa. All supplied steel bars must be rust free. High tensile strength wires should be used for all steel fixing. Plastic Rebar Clip Chair Spacer is used and ensure that Rebar free from rust. the poured area should be levelled, All works to be according to the specification, drawings and instruction of site engineer.	m3	1.7		
C3	Concrete slab: Supply and cast 20 cm concrete slab. Concrete should be class C 1:2:4 mix (21Mpa). Using steel bar #12mm in both direction @25 C/C works include deforming(formwork). Concrete must be regularly watered during curing process and also should be vibrated by using suitable vibrator, to prevent cracking and tools should use during casting process. Steel reinforcement bars must be in follows specifications, Yield strength of 250Mpa. All supplied steel bars must be rust free. High tensile strength wires should be used for all steel fixing. Plastic Rebar Clip Chair Spacer is used and ensure that Rebar free from rust. the poured area should be levelled, All works to be according to the specification, drawings and instruction of site engineer.	m3	2		
C4	Nylon Covering: Supply and spread layer of Nylon, 1.00 mm thick, on compacted soil. The Nylon should spread in a proper way in the foundation place or any other needed place as per requests. Site engineer must ensure that all the excavated area are covered by nylon without any exception. Nylon works should be according to engineering specifications and requests of site engineer.	m2	8		

C5	Concrete Solid Block (15X20X40 cm): Construct new walls by masonry building with concrete solid block (15X20X40 cm) using ordinary Portland cement/sand mortar of 1:3 ratio. Solid blocks should be used in case of need to raise the level of the foundation and to construct a retaining and support walls on the concrete foundation according to the site engineer requests. Concrete solid blocks should be at the same required measurement and not broken or severed and thickness of cement mortar should be no less than 2cm.the wall should be leveled verticality and alignment, Walls should be sprayed with water during 2 days. All works and dimensions should be done according to the requests and instructions of site engineer.	m3	9		
C6	Cement Plastering:Plastering the internal walls & ceilings with 2 layers of cement:sand(smooth) mix (1:3) , with taking into consideration the verticality and alignment of the surfaces according to the technical specifications, the work includes fixing wire mesh over the steel lintels of doors and windows and watering. If applicable.the price include filling concrete block joints in inner and outer sides of the wall. All block gaps and block joints should be filled horizontally and vertically using ordinary Portland cement / sand and sand must be sieved before mixing it with cement and mortar should be with 1:3 ratio. Filled gaps should be smooth. Cement plastering should be done according to instructions of site engineer.	m2	40		
C7	Supply and install plastic manholes 40cm *40cm in dimensions with hardened plastic cover and four holes according to the pipe diameters in each side and 30cm in height to connect all pipe types. All works and dimensions should be done according to the drawings.	Pcs	3.0		
C8	Supply and install PVC pipes , PVC sewer pipe 4" diameter 3.4mm thick minimum (6m.l/pipe) and all required fittings like elbow, socket,tee,45°elbow, end cap, Union, pipe clip reducer, to connect roof rain water from the latrines to the plastic manholes and then to the cesspool, with delivering to the site.	Pcs	3.0		
Total					
D	Sanitary works				
D1	GI water tank: Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings ,taps, and float valves, with required completion work	No	1.0		
D2	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose(Handheld Sprayer for Toilet Cleaning with Shower Head with Wall Bracket Hose)- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	1.0		
D3	New hand wash basins for all WCs. Supply and install hand wash basins 40x60cm . The basins are equipped with taps mixer, connection pipes and all works and fittings.(base of disable use hand wash should be hidden in wall)	No	1.0		

D4	PPR Water Pipes: Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	10.0		
D5	Eastern Toilet Base: Provide and install white new ceramic toilet pan. The price includes installing 4 inch gully trap and casting floor concrete ,supply and installing 1/2" tap, according to the technical specifications, the price includes removal of the old toilet pan (if exist).	No	1.0		
D6	Wall Tiles work: Supply and install Turkish tiles (60cm*30cm *(3) cm) (W, L, T) with cement sand mortar the price includes removing the existing wall tiles or any other wall plastering (if exist) preparing roof and providing all material (cement, sand, gypsum paste between tiles). The work should be according to the instructions of supervisor engineer	m2	15		
D7	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (30×30×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	4		
Total					
E	Electrical Works				
E1	Wiring: Re-set wire net for one room inside the school using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	100.0		
E2	Wiring: Re-set wire net for one room inside the school using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	100.0		
E3	Supply and install Ventilation fan exhaust fan white in color Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, color turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	3.0		
E4	FL- tube: Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	10.0		

E5	Supply and install exterior water proof lamp, Lamps (wall mounted), lamp, base and lamp with plastic cover, 36Watt, water proof wall mounting, water proof wall mounting, white snow color circular plastic shape, with delivering to the site	Pcs	5.0		
E6	Supply and install Socket switch (4 line) 5 Amp. for lighting, 4 gang 1 way 10AX and 250V, 82mm*82mm plastic face and switches with 16mm in depth, white color, with delivering to the site	Pcs	6.0		
E7	Power connection line, from public power line to main building, cable (4*10 mm2) Turkish standard, over ground, usual quality and dimensions, installing connections to the electrical system (electric main board), the price include installation and fixing steel column on the building.	m.l	20		
E8	Main Electrical board: Providing , installation and testing new main electric board (iron plate with dimension 60cm *40 cm ,2mm thickness) with main circuit breaker best quality (Uri=AC660 V, ue=AC 360 V (50Hz/60Hz), In =250 A ,Te=+40°C), containing busbar, gage reading voltage, Hz and amperage) with all accessories and fittings.	no	1		
E9	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase, 12 circuit breaker, with containing busbar, gage reading voltage, Hz and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	1		
Total					
F	Drilling Borehole				
F1	Borehole work: New water well, through Drilling borehole using Syrian drilling machine, common standard, dia 350 mm to 250 mm, around 80 m deep, installing casing PVC pipe 200 * 5.9 mm, with water pipe PPR 1" diameter water pipes from submersible pump to water tank at the top of building, special gravel for filters size (8 - 5.6) mm ,stand pipe with concrete apron, submersible pump, 1" (Italy market), fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) standard ,and holding cable with steel roller) and providing all material ,(electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe from submersible pump in the water borehole and connecting water tanks on top of roof of school, the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Windows and Doors

Construction new toilet

Construction of new Septic tank and Cesspool	
Sanitary works	
Electrical Works	
drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

Tender submission should include relevant work experience and proof of certification of workers to undertake complex electrical repairs.

All repairs must be commissioned, tested, and proved functional by the contractor under the supervision of NRC and DoE Field Engineers. All costs of the commissioning are the responsibility of the contractor.

Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

BOQ TOTAL ESTIMATED COST in USD:	Level of Needs	Minor Repair
	Project Number/Donor	IQFM1846/GIZ
	School Director	Mohand Abdulaa Halush
	BoQ Number	BoQ 11
	Reference Number	B-S-011
	Village	Shmalat
	District	Baaj
	Address	Shmalat, Baaj, Ninawa

ACTUAL MEASUREMENT COSTS in USD:

GPS Coordinate-Longitude	36.10049918
GPS Coordinate-Latitude	41.67169025
BoQ done By	Aziz Bajo and Stefal Polas
School Name	Alsaada mixed primary
Number of Classrooms	6
School-Phone Number	7503179133

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Roof Works				
A1	Waterproofing of school roof. Apply sealing product according to manufacturer's instructions and the work includes clean the roof surface using water jet and the roof should very clean then fix all the cracks before applying the material .Apply the water primer coat then the UV material (Using Kalekim 4004 structural repairing mortar ,4505 Kalekim primer,3027 UV resistance water proofing mortar and water proofing tape 3501 for expansion and construction joints .All the work and application instruction should be taken from the site engineer . the work includes the repairing of cracks in walls by using Kalekim 4004 structural repairing mortar	m2	300		
Total					
B	Windows and Doors				
B1	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them(The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,welding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	18		
B2	Door Locks (Interior):Supply and fix of best quality door handles with locks (for internal doors), approved by the technical supervising engineer.	No	20		
B3	Window Locks: Supply and fix of best quality window handles (for Steel /PVC windows), approved by the technical supervising engineer.	No	7		
Total					
C	Miscellaneous Works				

C1	Repair wall cracks: Remove worn-out old plaster (or any other finishing) & repair all cracks in the wall and ceiling if found by using (chicken wire) and steel bars if needed, surface should be dry before re-plastering, then Re-plastering the internal walls & ceilings with 2 layers of cement:sand(smooth) mix (1:3), with taking into consideration the verticality and alignment of the surfaces according to the technical specifications. If applicable. Cement re-plastering should be done according to instructions of site engineer.	m2	50		
C2	Gypsum plaster: Internal plastering with gypsum in two layers at least, each layer min. of 15 mm thickness for walls with approved gypsum, the wall and ceiling to be cleaned and splashed by cement- sand mortar prior of plastering. Final surface shall be clean, smooth and white, using chicken wire width of 50 cm between different materials. Gypsum plastering should be done according to instructions of site engineer.	m2	50		
C3	Painting: Supply and apply water emulsion paint with acrylic base. Three finishing coats in addition to under coat. Emulsion paint on plastered surfaces include removing all defected surfaces, preparation of surfaces, sanding, cleaning, application of thin putty filler as required. The color of the paint and source of the material is subject to the Engineer's approval.	m2	500		
D9	Oil Painting: Supply material & paint the external walls of the school. With 3 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	150		
Total					
D	Sanitary Works				
D1	GI water tank: Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. Install PPR pipes connections to the existing system, fittings, taps, and float valves, with required completion work	No	4.0		
D2	New hand wash basins for all WCs. Supply and install hand wash basins 40x60cm and 1 small hand wash basin (Vita or Sanit brands or similar brand, best quality). The basins are equipped with taps mixer, connection pipes and all works and fittings. (base of disabled use hand wash should be hidden in wall)	No	2.0		
D3	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	8.0		
E8	Cleaning existing WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	30		

Total					
E	Electrical Works				
E1	Wiring: Re-set wire net for one room inside the school using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
E2	Wiring: Re-set wire net for one room inside school using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
E3	Supply and install Ventilation fan exhaust fan white in color Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, color turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	9.0		
E4	FL- tube: Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	30.0		
E5	Supply and install exterior water proof lamp, Lamps (wall mounted),lamp, base and lamp with plastic cover,36Watt,water proof wall mounting, water proof wall mounting, white snow color circular plastic shape, with delivering to the site	Pcs	4.0		
E6	Supply and install Socket switch (4 line) 5 Amp. for lighting,4 gang 1 way 10AX and 250V,82mm*82mm plastic face and switches with 16mm in depth, white color, with delivering to the site	Pcs	15.0		
E7	Main Electrical board: Providing testing the existing main electric board and providing main circuit breaker best quality (Ui=AC660 V,ue=AC 360 V (50Hz/60Hz),In =250 A ,Te=+40°C),containing busbar, gage reading voltage,HZ and amperage) with all accessories and fittings.	no	1		
E8	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 Amp single phase,12 circuit breaker, with containing busbar, gage reading voltage,HZ and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	no	1		
Total					
F	Septic tank and Cesspool Works				
F1	Dislodging the Septic Tank- Size max.20 m3. Price includes: opening manholes, clean and properly close manhole cover after dislodging.	No	1		

Total					
G	Drilling Borehole				
G1	Borehole work: Repairing existing water borehole, with providing and installation water pipe PPR 1" diameter water pipes from submersible pump to water tank at the top of building about (100m length) ,stand pipe with concrete apron, submersible pump, 1" diameter (Italy market) steel pipe connection, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) (about 90 m)Turkish made ,and holding cable with steel roller) and providing all material ,(electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe, connecting water borehole and water tanks on top of roof , the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Roof Works	
Doors and Windows	
Miscellaneous Works	
Sanitary Works	
Electrical Works	
Septic tank and Cesspool Works	
drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

Tender submission should include relevant work experience and proof of certification of workers to undertake complex electrical repairs.

All repairs must be commissioned, tested, and proved functional by the contractor under the supervision of NRC and DoE Field Engineers. All costs of the commissioning are the responsibility of the contractor.

Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

  	BOQ TOTAL ESTIMATED COST in USD:	Level of Needs	Minor Repair
		Project Number/Donor	IQFM1846/GIZ
		School Director	Ahmed Hussien Ali
		BoQ Number	BoQ 12
		Reference Number	B-S-012
		City	Baaj
		District	Baaj
		Address	Nineveh, Baaj, Zoman Village
		GPS Coordinate-Longitude	41.61329135
		GPS Coordinate-Latitude	36.02533484
		BoQ done By	Aziz Ghanim and Steafal Polas
	ACTUAL MEASUREMENT COSTS in USD:	School Name	Zoman Mixed primary school
		Number of Classrooms	6
		School-Phone Number	7507789572

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Windows and Doors				
A1	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them (The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. . the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	8		

A2	Door Locks (Interior):Supply and fix of best quality door handles with locks (for internal doors), approved by the technical supervising engineer.	No	9		
A3	Existing door work: welding broken parts, providing good quality door lock with door handles, door hinges and repairing surrounding door with gypsum plaster if needed. with all required work with all accessories and fittings according to the supervisor engineer.	No	11		
Total					
B	Roof Works				
B1	Waterproofing of school roof. Apply sealing product according to manufacturer's instructions and the work includes clean the roof surface using water jet and the roof should very clean then fix all the cracks before applying the material .Apply the water primer coat then the UV material (Using Kalekim 4004 structural repairing mortar ,4505 Kalekim primer,3027 UV resistance water proofing mortar and water proofing tape 3501 for expansion and construction joints .All the work and application instruction should be taken from the site engineer . the work includes the repairing of cracks in walls by using Kalekim 4004 structural repairing mortar	m2	180		
Total					
C	Wall works				
C1	Crack repairing (the price include both sides) : Supply and providing all materials ,tools and machines to prepare all cracks in all walls, by Opening the cracks (Saw cut the crack or joint lengthways (to approx.half to two thirds to screed depths). At right angles to the crack and at 30 cm intervals cut in 10 cm long transverse slots). intering steel sheet to crack (with crack width 8 cm length *15 cm width and with crack thickness) , and making holes 14mm with 10cm depth on both side of wall , Removing dust and contamination and thoroughly clean the cut area with an industrial vacuum or smilar,then filling holes with epoxy (1401 Techobond), fixing steel bars with 8 mm or 6mm, and plastering with gypsum plaster of cement-sand mortor after adding wiremesh. according to instruction of supervisor Engineer. skimming wall to stone wall and making holes to wall and fixing reinforced bars 6 mm and	m.l	90		
Total					
D	Pathway Works				
D1	Construct new pathway to provide accessibility from school gate to the middle of the school by cast 10 cm plain concrete 1:2:4 mix using BRC 6 mm, the work includes laying a layer of crushed stone or gravel and compacting it properly (below the concrete layer), The surface should be smooth and fair face with out segregation and cracks, the work includes remove the damaged flooring if exist and making concrete joints by concrete cutter with filling with joint materials.the price include forming work and All works must be according to the requests and instructions of site engineer.	m2	30		

Total					
E	Sanitary Works				
E1	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 2 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	800		
E2	GI water tank: Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. The price include Install PPR pipes 1/2 inches, connections to the existing system, fittings ,taps, and float valves, with required completion work	No	4.0		
E3	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	6.0		
E4	New hand wash basins: Supply and install hand wash basins 40x60cm . The basins are equipped with taps mixer, connection pipes and all works and fittings.(base of disable use hand wash should be hidden in wall)	No	2.0		
E5	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	10.0		
E6	PPR Water Pipes: Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	30.0		
E7	Rain water drainage.: Suppily and install new water drianage pipes (GI pipes 3 inches diameter), the Price includes taking off the old existing pipes, cleaning, adding the new connections with elbows, fittings and all required work..	m.l	12.0		
E8	Eastern Toilet Base: Provide and install white new ceramic oriental toilet. The price includes installing 4 inch gully trap, the price include removing the existing broken toilet, and repairing tolet floor after installation with tiles or ceramic according to the technical specifications and instruction of supervisor Engineer.	No	3.0		
E9	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (30×30×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	5		

E10	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	50		
Total					
F	Electrical Works				
F1	Wiring:Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
F2	Wiring:Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
F3	Supply and install Ventilation fan exhaust fan white in color Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, color turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	6.0		
F4	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	30.0		
F5	Repairing the existing main electrical board: Providing , installation and testing new main electric circute breaker best quality (Ui=AC660 V,ue=AC 360 V (50Hz/60Hz),In =250 A ,,Te=+40°C), containing busbar, gage reading voltage,HZ and amperage) with all accessories and fittings.	No	1.0		
F6	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 or 64 Amp single phase,12 circuit breaker, with containing busbar, gage reading voltage,HZ and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	No	3.0		
Total					
G	Drilling Borehole				
G1	Borehole work: Repairing existing water borehole, with providing and installation water pipe PPR 1" diameter water pipes from submersible pump to water tank at the top of building about (80m length) ,stand pipe with concrete apron, submersible pump, 1" diameter (Italy market) steel pipe connection, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) (about 90 m)Turkish made ,and holding cable with steel roller) and providing all material ,(electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe, connecting water borehole and water tanks on top of roof , the Price includes all necessary materials for a full set installation.	no	1		

sub total	
Grand Total/USD	

Doors and Windows	
Roof Works	
Wall works	
Pathway works	
Sanitary Works	
Electrical Works	
drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

Tender submission should include relevant work experience and proof of certification of workers to undertake complex electrical repairs.

All repairs must be commissioned, tested, and proved functional by the contractor under the supervision of NRC and DoE Field Engineers. All costs of the commissioning are the responsibility of the contractor.

Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

BOQ TOTAL ESTIMATED COST in USD:	Level of Needs	Minor Repair
	Project Number/Donor	IQFM1846/GIZ
	School Director	Ahmed Aawad Mrhash
	BoQ Number	BoQ 13



ACTUAL MEASUREMENT COSTS in USD:

Reference Number	B-S-013
Village	Almustreha
District	Baaj
Address	Almustreha village, Baaj, Nineveh
GPS Coordinate-Longitude	41.55856188
GPS Coordinate-Latitude	36.0362293
BoQ done By	Aziz Ghanim and Steafal Polas
School Name	Al-Mustariha mixed primary school
Number of Classrooms	6
School-Phone Number	7507790468

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
A	Windows and Doors				
A1	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them (The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc....,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	11		
A2	Door Locks (Interior):Supply and fix of best quality door handles with locks (for internal doors), approved by the technical supervising engineer.	No	10		
A3	PVC Doors:Supply materials and install new PVC doors complete with the frames. door lock and door handles, key locks & painted & glass where required , PVC door frame should be supported by steel , the work Includes removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, also wall frame repair and plastering the frame with cement:sand mortar and 15 cm all arround the frame with oil paint of this frame.	m2	16		
Total					
B	Roof Works				

B1	Waterproofing of school roof. Apply sealing product according to manufacturer's instructions and the work includes clean the roof surface using water jet and the roof should very clean then fix all the cracks before applying the material .Apply the water primer coat then the UV material (Using Kalekim 4004 structural repairing mortar ,4505 Kalekim primer,3027 UV resistance water proofing mortar and water proofing tape 3501 for expansion and construction joints .All the work and application instruction should be taken from the site engineer . the work includes the repairing of cracks in walls by using Kalekim 4004 structural repairing mortar	m2	200		
Total					
C	Wall works				
C1	Crack repairing (the price include both sides) : Supply and providing all materials ,tools and machines to prepare all cracks in all walls, by Opening the cracks (Saw cut the crack or joint lengthways (to approx.half to two thirds to screed depths). At right angles to the crack and at 30 cm intervals cut in 10 cm long transverse slots). intering steel sheet to crack (with crack width 8 cm length *15 cm width and with crack thickness) , and making holes 14mm with 10cm depth on both side of wall , Removing dust and contamination and thoroughly clean the cut area with an industrial vacuum or smilar,then filling holes with epoxy (1401 Techobond), fixing steel bars with 8 mm or 6mm, and plastering with gypsum plaster of cement-sand mortor after adding wiremesh. according to instruction of supervisor Engineer. skimming wall to stone wall and making holes to wall and fixing reinforced bars 6 mm and	m.l	70		
C2	Cement Re-Plastering:Remove worn-out old plaster (or any other finishing) & repair all cracks in the wall and ceiling if found by using (chicken wire) and steel bars if needed , surface should be dry before re-plastering, then Re-plastering the internal walls & ceilings with 2 layers of cement:sand(smooth) mix (1:3) , with taking into consideration the verticality and alignment of the surfaces according to the technical specifications. If applicable. Cement re-plastering should be done according to instructions of site engineer.	M2	60		
Total					
D	Sanitary Works				
D1	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 2 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	800		
D2	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. The price include Install PPR pipes 1/2 inches, connections to the existing system, fittings ,taps, and float valves, with required completion work	No	4.0		
D3	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	6.0		

D4	Water mixer: Supply and connect water mixer (Brass heavy duty) for hand wash basin of diameter (1/2 inch according to existing handwashbasin) of good quality (UAE or Turkish Origin), with, connection pipes and all works and fittings.	No	2.0		
D5	Water Tap: Provide & Install ¾" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	10.0		
D6	PPR Water Pipes: Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	10.0		
D7	Rain water drainage.: Supply and install new water drainage pipes (GI pipes 3 inches diameter), the Price includes taking off the old existing pipes, cleaning, adding the new connections with elbows, fittings and all required work..	m.l	12.0		
D8	Eastern Toilet Base: Provide and install white new ceramic oriental toilet. The price includes installing 4 inch gully trap, the price include removing the existing broken toilet, and repairing toilet floor after installation with tiles or ceramic according to the technical specifications and instruction of supervisor Engineer.	No	7.0		
D9	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (30×30×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	12		
D10	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	50		
Total					
E	Electrical Works				
E1	Wiring:Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
E2	Wiring:Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
E3	Supply and install Ventilation fan exhaust fan white in color Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, color turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	8.0		

E4	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	30.0		
E5	Repairing the existing main electrical board: Providing , installation and testing new main electric circute breaker best quality (Ui=AC660 V,ue=AC 360 V (50Hz/60Hz),In =250 A ,,Te=+40°C), containing busbar, gage reading voltage,HZ and amperage) with all accessories and fittings.	No	1.0		
E6	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 or 64 Amp single phase,12 circuit breaker, with containing busbar, gage reading voltage,HZ and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	No	3.0		
Total					
G	Drilling Borehole				
G1	Borehole work: Repairing existing water borehole, with providing and installation water pipe PPR 1" diameter water pipes from submersible pump to water tank at the top of building about (80m length) ,stand pipe with concrete apron, submersible pump, 1" diameter (Italy market) steel pipe connection, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) (about 90 m)Turkish made ,and holding cable with steel roller) and providing all material ,(electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe, connecting water borehole and water tanks on top of roof , the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Doors and Windows	
Roof Works	
Wall Works	
Sanitary Works	
Electrical Works	
Drilling borehole (Repairing)	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

Tender submission should include relevant work experience and proof of certification of workers to undertake complex electrical repairs.

All repairs must be commissioned, tested, and proved functional by the contractor under the supervision of NRC and DoE Field Engineers. All costs of the commissioning are the responsibility of the contractor.

Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

IQFM1846/GIZ

Bill of Quantity (BOQ) - School rehabilitation in Baaj

The Bill of Quantity (technical specifications) given describes the major elements of the Shelter Rehabilitation. All units are fully complete and functional. The contractor is fully aware of the situation and the requirements on site. The contractor adheres to standard construction codes.

 	Level of Needs	Minor Repair
	Project Number/Donor	IQFM1846/GIZ
	School Director	Khalid Khtab Omer
	BoQ Number	BoQ 14
	Reference Number	B-S-014
	Village	Alrashidya
	District	Baaj
	Address	Alrashidya village, Baaj, Nineveh
	GPS Coordinate-Longitude	41.57184854
	GPS Coordinate-Latitude	36.12573663
	BoQ done By	Aziz Ghanim and Steafal Polas
	School Name	Rashidia Al-Baaj mixed primary school
	Number of Classrooms	6
	School-Phone Number	7705600097

BOQ TOTAL ESTIMATED COST in USD:

ACTUAL MEASUREMENT COSTS in USD:

Ref	Item Description	Unit	Estimated Quantity	Unit Cost	Total Estimated Cost/USD
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A Windows and Doors					
A1	Existing Windows work: Removing the broken glasses, skimming old paste ,and old paint from the windows frame, cleaning them (The surfaces will be smoothened using a wire brush and sandpaper.) before repainting the windows frames with 2 coat of anti-corrosion base and 2 coat of oil paint .Color of the paint- light grey.Painting will be done on all sides of all the windows and frames. .the price repairing all messing parts of windows such as windows hinges and windows frames,weldding all broken parts, etc...,and providing and installation of new 4mm glasses (clear original best quality glasses) and paste or silicon in the windows and providing new window's handle (best quality) ,including all additional required work.	m2	10		
A2	Door Locks (Interior):Supply and fix of best quality door handles with locks (for internal doors), approved by the technical supervising engineer.	No	12		
A3	PVC Doors:Supply materials and install new PVC doors complete with the frames. door lock and door handles, key locks & painted & glass where required , PVC door frame should be supported by steel , the work Includes removal of old doors & frames (if exist) and repair of all damages that may occur to the wall or finish due to the replacement process, also wall frame repair and plastering the frame with cement:sand mortar and 15 cm all around the frame with oil paint of this frame.	m2	12		
Total					
B Roof Works					
B1	Waterproofing of school roof. Apply sealing product according to manufacturer's instructions and the work includes clean the roof surface using water jet and the and the roof should very clean then fix all the cracks before applying the material .Apply the water primer coat then the UV material (Using Kalekim 4004 structural repairing mortar ,4505 Kalekim primer,3027 UV resistance water proofing mortar and water proofing tape 3501 for expansion and construction joints .All the work and application instruction should be taken from the site engineer . the work includes the repairing of cracks in walls by using Kalekim 4004 structural repairing mortar	m2	380		
Total					
C Wall works					

C1	Crack repairing (the price include both sides) : Supply and providing all materials ,tools and machines to prepare all cracks in all walls, by Opening the cracks (Saw cut the crack or joint lengthways (to approx.half to two thirds to screed depths). At right angles to the crack and at 30 cm intervals cut in 10 cm long transverse slots). intering steel sheet to crack (with crack width 8 cm length *15 cm width and with crack thickness) , and making holes 14mm with 10cm depth on both side of wall , Removing dust and contamination and thoroughly clean the cut area with an industrial vacuum or smilar,then filling holes with epoxy (1401 Techobond), fixing steel bars with 8 mm or 6mm, and plastering with gypsum plaster of cement-sand mortar after adding wiremesh. according to instruction of supervisor Engineer. skimming wall to stone wall and making holes to wall and fixing reinforced bars 6 mm and	m.l	40		
C2	Cement Re-Plastering:Remove worn-out old plaster (or any other finishing) & repair all cracks in the wall and ceiling if found by using (chicken wire) and steel bars if needed , surface should be dry before re-plastering, then Re-plastering the internal walls & ceilings with 2 layers of cement:sand(smooth) mix (1:3) , with taking into consideration the verticality and alignment of the surfaces according to the technical specifications. If applicable. Cement re-plastering should be done according to instructions of site engineer.	M2	30		
Total					
D	Sanitary Works				
D1	Oil Painting: Supply material & paint the internal walls of the Wash facility space. With 2 coats of flat matt oil, good quality paint. Price include removing the old paint & repair all defect surfaces. The engineer will assign the colour of the paint.	m2	600		
D2	GI water tank:Supply and install new galvanized iron water tank of 1.5 m3 (thickness of plate 1.4mm) with an iron base on roof. The price include Install PPR pipes 1/2 inches, connections to the existing system, fittings ,taps, and float valves, with required completion work	No	4.0		
D3	New flush tank 6 liters for Eastern WCs. Supply and install new flushing 6 liters tank+ pipe (Vita or Sanit brands or similar brand ,best quality) and metallic cleaning hose- for Girls WC, Boys WC and teachers' WC. Including all required work.	No	6.0		
D4	Water mixer: Supply and connect water mixer (Brass heavy duty) for hand wash basin of diameter (1/2 inch according to existing handwashbasin) of good quality (UAE or Turkish Origin), with, connection pipes and all works and fittings.	No	2.0		
D5	Water Tap: Provide & Install 3/4" Plastic PPR Water Tap Turkish Made, According to Technical Engineer Recommendations.	No	10.0		
D6	PPR Water Pipes: Supply & installing new 1/2"PPR pipes for fresh water, price including all fittings & connections, and also connecting with main water network.	m.l	10.0		

D7	Rain water drainage.: Supply and install new water drianage pipes (GI pipes 3 inches diameter), the Price includes taking off the old existing pipes, cleaning, adding the new connections with elbows, fittings and all required work..	m.l	18.0		
D8	Eastern Toilet Base: Provide and install white new ceramic oriental toilet. The price includes installing 4 inch gully trap, the price include removing the existing broken toilet, and repairing tolet floor after installation with tiles or ceramic according to the technical specifications and instruction of supervisor Engineer.	No	7.0		
D9	Floor ceramic work: Supply and install floor Porcelain ceramic tiles (30×30×0.6) cm for (W.C) with cement sand mortar(with thickness not less than 7 cm) , the price include removing the existing ceramic floor, removing existing toilet pan, cleaning the floor, removing debris, and providing all material (cement,sand,gypsum paste between tiles) and all required work.	m2	12		
D10	Cleaning WASH facility: provide all essential materials like Soap, liquid, Shampoo..etc. to clean Walls, floor, toilet pan, ceiling of Wash facility space with all other required works.	m2	50		
Total					
E	Electrical Works				
E1	Wiring:Re-set wire net for one room inside the house using Siemens wire 2.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
E2	Wiring:Re-set wire net for one room inside the house using Siemens wire 1.5X2mm local or western origin according Engineer instructions.	m.l	80.0		
E3	Supply and install Ventilation fan exhaust fan white in color Super slim Suitable for installing on window or glass (15cm*15cm) , Full plastic body, color turning resistant, 6" in size. 220V 50Hz. with delivering to the site	Pcs	7.0		
E4	FL- tube:Supply, install & operate a surface type, wall or ceiling mounted single FL-fitting with FL- tube 4 feet, chock & starter of good quality with all wiring system fixed surface wall, as per approval. of the supervising. Engineer Price includes supply, inst. & test the operating switch, and all the provided materials should be Turkish or western origin	No	30.0		
E5	Repairing the existing main electrical board: Providing , installation and testing new main electric circute breaker best quality (Ui=AC660 V,ue=AC 360 V (50Hz/60Hz),In =250 A ,,Te=+40°C), containing busbar, gage reading voltage,HZ and amperage) with all accessories and fittings.	No	1.0		
E6	Distribution board: Supply and fixing new distribution board for PHC (metallic box and circuit breaker 10-32 Amp, main circuit 100 or 64 Amp single phase,12 circuit breaker, with containing busbar, gage reading voltage,HZ and amperage), with all required work with all accessories and fittings according to the supervisor engineer.	No	3.0		

Total					
G	Drilling Borehole				
G1	Borehole work: Repairing existing water borehole, with providing and installation water pipe PPR 1" diameter water pipes from submersible pump to water tank at the top of building about (100m length) ,stand pipe with concrete apron, submersible pump, 1" diameter (Italy market) steel pipe connection, fittings, wiring, electrical connection, full set installation. The price includes also ,electric cable (2*4mm2) (about 90 m)Turkish made ,and holding cable with steel roller) and providing all material ,(electric connections with starter and electric circuit breaker) the Water line of 1" water PPR pipe, connecting water borehole and water tanks on top of roof , the Price includes all necessary materials for a full set installation.	no	1		
sub total					
Grand Total/USD					

Doors and Windows	
Roof Works	
Wall works	
Sanitary Works	
Electrical Works	
drilling borehole	
Grand Total/USD	

All works according to instruction of NRC Site Engineer and Iraqi national standards.

Prices to include all material, transportation, labor and commissioning costs.

Tender submission to contain a detailed breakdown of the proposed activities and materials to be supplied.

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All repairs must be commissioned, tested, and proved functional by the contractor under the supervision of NRC and DoE Field Engineers. All costs of the commissioning are the responsibility of the contractor.

Contractor shall retain all liability related to any damage that may occur to their own equipment or other facilities, systems, or structures during the course of their work.

Contractor shall agree to undertake the work as per Iraqi national construction safety standards, and shall retain sole liability in the case on any injuries to workers or members of the public.

Prepared by:

Position:

Date

Name:

Signature:

Stamp

- 2.13. يجب حقن جميع علاجات الـ أني حطول عرق عمل الذي يجب أن يكون ملتوي بملغ خفيف مهن ها.
- 2.14. يجب أن يصل والاعمال على الرعية الصحية أن تظم قوالتدي بفي مج اللسلامة للصحة، وعلى هذا أساسا سي عاتدي بلالاعمال الجدد.
- 2.15. الوصول إلى المراجعيض النيفة والي الفطال ح ل شرب، وإذا كان ذلك فيليب اتفيري مرفلق ص ح لقت خزين المواد الخفيفة.
- 2.16. اللسكن، حيث قد ي يجب أن تكون نيفة وآني وذات تمهي لغلتي، يكون متوفر الوصول إلى المراجعيض النيفة والي الفطال ح ل شرب.
- 2.17. لا يجب وضع خصومات من الأجور كإجراء تأيبي.

3. لظروف بيئية:

- 3.1. التسهام على إنتاج استخراج المواد الخام لازم قل الإنتاجي تدير الموارد قاعة الدخل للسكران المهمشين، كما موالح الفبي أخذ مساحات لغيرة من الأراضي أو الموارد الطبيعية أ لخرى التي يعدم علي ها وال للسكران.
- 3.2. عند أخذ التدير البيئي يجب عن الاعتبار في جي ع مراحل الإنتاج وسلاقت وني عبء من إنتاج المواد خام على بي اي لعل مستهلكي جي الأخبين الاعتبار ل جول بالبيئي لملحلي، الفلي في قوال علي ها. لاي جوز استغلال البيئي لملحلي أو إضرار بسبب النطو وشفبي موقع الإنتاج.
- 3.3. يجب اعتبار الشريعات الأنظمة البيئية الوطنية والدولية.
- 3.4. يجب أن تدارال مواد البيئية لخطر و غير ها من المواب علية فوق لإجراء اتل سلام لملحقة.

نحن ليعق عن أناه ونؤكد من أن اسن بتل ل جي ملق ولين الممولب ها وال لوطا ح، وسنلبي لملعير أل خا هي كمال ذكورة أ اله أو لي جان وللق على هذه لملعير أل خا هي، ونحن مستعدون لتفي ذلك غير ات ال لازم مفي المنظم.

النهاية:

اسم المورد الشراكة:

اسم الممثل:

التوقيع:

Suppliers Ethical Standards Declaration

NRC as a humanitarian organisation expects the suppliers and contractors to have high ethical standards. Any organization supplying goods to NRC valued at over USD\$10 000 in one year must sign this declaration. This declaration will be kept on file for a period of 10 years and should be updated every year or more often as appropriate.

NRC staff may perform checks to verify that these standards are adhered to. Should NRC deem that the supplier fails to meet or is not taking appropriate steps to meet these standards, any and all contracts and agreements with NRC may be terminated. Anyone doing business with Norwegian Refugee Council shall as a minimum;

a) Comply with all laws and regulations in effect in the country or countries of business

AND

b) Meet the ethical standards as listed below.

OR

Positively agree to the standards and be willing to implement changes in their organisation.

1. Anti-corruption and suppliers compliance with laws and regulations:

1.1 The supplier confirms that it is not involved in any form of fraud, corruption, collusion, coercive practice, bribery, involvement in a criminal organization or other illegal activity.

1.2 Where any potential conflict of interest exists between the supplier or any of the suppliers staff members with any NRC staff member, the supplier shall notify NRC in writing of the potential conflict. NRC shall then determine whether action is required. A conflict of interest can be due to a relationship with a staff member such as close family etc.

1.3 The supplier will immediately notify senior NRC management if exposed for alleged corruption by representatives of NRC.

1.4 The supplier shall be registered with the relevant government authority with regard to taxation.

1.5 The supplier shall pay taxes according to all applicable national laws and regulations.

1.6 The supplier warrants that it is not involved in the production or sale of any weapons including anti-personnel mines.

2. Conditions related to the employees:

2.1 No workers in our company will be forced, bonded or involuntary prison workers.

2.2 Workers shall not be required to lodge "deposits" or identity papers with their employer and shall be free to leave their employer after reasonable notice.

2.3 Workers, without distinction, shall have the right

to join or form trade unions of their own choosing and to bargain collectively.

2.4 Persons under the age of 18 shall not be engaged in work which is hazardous to their health or safety, including night work.

2.5 Employers of persons under the age of 18 must ensure that the working hours and nature of the work does not interfere with the child's opportunity to complete his/ her education.

2.6 There shall be no discrimination at the work place based on ethnic background, religion, age, disability, gender, marital status, sexual orientation, union membership or political affiliation.

2.7 Measures shall be established to protect workers from sexually intrusive, threatening, insulting or exploitative behavior, and from discrimination or termination of employment on unjustifiable grounds, e.g. marriage, pregnancy, parenthood or HIV status.

2.8 Physical abuse or punishment, or threats of physical abuse, sexual or other harassment and verbal abuse, as well as other forms of intimidation, shall be prohibited.

2.9 Steps shall be taken to prevent accidents and injury to health arising out of, associated with, or occurring in, the course of work, by minimizing, so far as is reasonably practicable, the causes of hazards inherent in the working environment.

2.10 Wages and benefits paid for a standard working week shall meet, at a minimum, national legal standards or industry benchmark standards, whichever is higher. Wages should always be enough to meet basic needs.

2.11 Working hours shall comply with national laws and benchmark industry standards, whichever affords greater protection. It is recommended that working hours do not exceed 48 hours per week (8 hours per day).

2.12 Workers shall be provided with at least one day off for every 7 day period.

2.13 All workers are entitled to a contract of employment that shall be written in a language they understand.

2.14 Workers shall receive regular and documented health and safety training, and such training shall be repeated for new workers.

2.15 Access to clean toilet facilities and to potable water, and, if appropriate, sanitary facilities for food storage shall be provided.

2.16 Accommodation, where provided, shall be clean, safe and adequately ventilated, and shall have access to clean toilet facilities and potable water.

2.17 No Deductions from wages shall be made as a disciplinary measure.

3. Environmental conditions:

3.1 Production and extraction of raw materials for production shall not contribute to the destruction of the resources and income base for marginalized populations, such as in claiming large land areas or other natural resources on which these populations are dependent.

3.2 Environmental measures shall be taken into consideration throughout the production and distribution chain ranging from the production of raw material to the consumer sale. Local, regional and global environmental aspects shall be considered. The local environment at the production site shall not be exploited or degraded by pollution.

3.3 National and international environmental legislation and regulations shall be respected.

3.4 Hazardous chemicals and other substances shall be carefully managed in accordance with documented safety procedures.

We, the undersigned, verify that we are in compliance with all applicable laws and regulations, and meet the ethical standards as listed above or positively agree to these ethical standards and are willing to implement necessary changes in the organisation.

DATE: _____

NAME OF SUPPLIER/COMPANY: _____

NAME OF REPRESENTATIVE _____

SIGNATURE: _____