



Improvement of Irrigation Water management in Lebanon and Jordan

Rehabilitation of Deir Alla Research Center

Technical Report

Update March 2005

Following the visit of Dr. Fioravanti to the above mentioned laboratory in Deir Alla, a sketch of the existing premises was made and the engineer of ICU based in Amman prepared the layout plan of the laboratories.

On receiving the draft prepared by Dr. Fioravanti in Italy, the ICU engineer prepared, during the month of May, the final drawings including all the tender documents according to European Commission procedures applicable for works contracts.

The project followed the competitive negotiated procedure, due to the limited budget available and based on the fact that the works to be carried out in Deir Alla were the only ones foreseen by the project in Jordan.

Three contractors were invited with a letter dated 2nd July 2004 and submitted their offer as follows:

Abu Hamra Construction Co.	Euro 58.741,44
Salem and Ahmad Constructing Co.	Euro 55.711,98
Al Tadamon Establishment	Euro 60.127,66

The bid was open in public session on the 2nd September 2004 at 10 .00 am local time at ICU –Jordan office at NCARTT Baqaà by the committee formed by the following members:

Chairman	Mrs. Elena Vidaich
Secretary	Mrs. Ohoud Bata
Evaluator	Dr. Esmat Al Karadsheh
Evaluator	Eng. Ammen Al Okour
Evaluator	Dr. Naim Mazahrih
Evaluator	Dr. Paul Gasparini
Evaluator	Dr. Ahmad Bulad


The tenders were not approved because the offers including the 10% provisional sum for contingencies were over-budgeted.

All the three contractors were therefore contacted and were requested to reconsider their offer and to submit a new one before the 16th December 2004.

The revised bid was open in public session on the 19th December 2004 at 10 .00 am local time at ICU –Jordan office at NCARTT Beqaà by the same committee.

The contract was awarded to Salem and Ahmed Shatarat being the lowest bidder. The contract was signed on January 26th, 2005 and the site was handed over to the contractor on the 2nd February 2005.

The contractor carried out the following works:

- a) Demolition of two partitions, and all existing floor tiles and skirting.
 - b) Building of all working benches, with 10 cm. thick reinforced concrete top slab and anticorrosive ceramic tiles finishing
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- c) Building three new partitions and a new toilet of 7.50 m² with 10cm. concrete hollow blocks and plaster , complete with water reticulation for the following fittings:
 - 2 white ceramic wash hand basins,
 - 2 urinals,
 - 1 WC
 - 1 shower tray.
 - d) Building window sills including marble on the verandah and fixing n. 11 new windows complete with glasses and mosquito nets
 - e) Removal of all old windows and due replacement with No. 30 new windows complete with glasses and mosquito nets
 - f) Laying new terrazzo floor tiles and skirtings
 - g) Fixing ceramic floor and wall tiles to toilet internal walls
 - h) Fixing 8 new doors, painting to 12 old doors with two coats and new locks
 - i) Fixing new false ceiling on the verandah corridor
 - j) Electrical installation with distribution board including perforated cable tray

and PVC trunk complete with the following :



- N. 43 switched earth socket outlet
- N. 2 lighting points and fixtures to toilets

- k) Cold and hot water pipe distribution net work to all 4 stainless sink of the laboratory rooms including the water heater

- l) Sewerage reticulation with anticorrosive PVC pipe complete with 3 manholes and vent pipes

- m) Construction of a septic tank

- n) Supplying and fixing one fume cupboard complete with two ways bench mounted gas fitting

- o) Painting of all new laboratories premises including ceiling.

- p) Construction of n. 4 built in wardrobes complete with aluminum glazed sliding doors



- q) N. 3 Air conditioning cooling and heating split system units including duct and grills

The works were completed one week before the date defined in the contract with a total value of executed works of Euro 52.913,94 including the following extra works:

- 2 toilet fans
- 24 burglar bars removing, re-fixing and one coat painting
- Water pipe connection to sink next to secretary room
- Plastering and painting of 30 window frames
- Painting window frames of the corridor (11)
- Painting existing doors (12)
- Aluminum kick back 20cm height, 1.5 mm thickness (24)
- Door cylinder locks completed with handles (12)
- Shifting of one sink to make place for a fume hood

- Painting of main entrance of the laboratories building, staircase and left side corridors (206.82 m2)



During the implementation of the project four interim certificates were made including the final certificate as follows:

1st certificate dated February 9th, 2005 net value 14.827,42 €

2nd certificate dated February 23rd, 2005 net value 15.580,76 €

3rd certificate dated March 10th, 2005 net value 15.336,49 €

4^h certificate dated April 12th, 2005 net value 7.169,27 €

A retention money guarantee of 5% as per contract condition was kept and will be released to the contractor after one year of handing over as per contract agreement.