

BIDDERS QUERIES AND ANSWERS

HCR/IRQ/DHK/2022/RFP-06

CONSTRUCTION OF SEPTIC TANKS AND CESSPOOLS IN GAWILAN CAMP IN BARDARASH DISTRICT, DUHOK, IRAQ.

Q1:What is the correct pipe size for the sewer system?

- Answer: The pipe size (Internal diameter =200 mm, corrugated pipes (double wall SN8) as mentioned in the item number 1 in the BoQ and drawing 7, 8.

Q2:What is the exact height of the cesspools? 8 or 6 meters?

- Answer: The minimum height should be = 6 meters, as mentioned in the BoQ (item number 7.1).

Q3: What are the connection points? And which drawings are relevant to them?

- Answer: Connection points are small manholes with the size (500x500mm) made of reinforced concrete with the depth according to site slope/level/work requirements. The details are in drawing no. 7.

Q4: What will be the height difference between the septic tanks and the cesspools?

- Answer: Both facilities will have their cover on the ground level, this will depend on the site requirements. The only difference that should be ensured during the construction is in the outlet of the septic tank should be higher from the inlet of the cesspool, this is due to the slope of 1% in the connection pipe.

Q5: How the testing procedure of the septic tanks will be conducted?

- Answer: As mentioned in the BoQ (item no 4) the testing is as following:

The procedure shall be as follows:

- a) Fill the tank with water to a depth of 900mm or to the invert of the outlet pipe, whichever is the greater depth.
- b) Allow to stand for a minimum of 24 hours.
- c) Top up with water and start test observation.
- d) Top up again after 8 hours to determine the 8-hour loss; and
- e) Continue for a further 24 hours if required by (Test Criteria) and again top up to determine the loss.

Test Criteria:

- Cast-in-site concrete tanks shall be acceptable if the loss does not exceed 6 liters over 8 hours or 16 liters over 24 hours. If the 8-hour loss rate is exceeded the test may be continued for a further 24-hour period with an acceptable loss being 16 liters in that additional test period.

- NOTE: Because of temperatures (100C to 50oC) in KRI can cause significant evaporation, allowance for this must be made using accepted evaporation rates for the area and as advised by the Engineer.

Q6: What are dimensions of septic tanks (LXWXH)? Why L does not = (2W + Baffle thickness + W)?

- Answer: The dimensions as mentioned in the BoQ (Item no 4) are as below

| | Sizes of septic tanks (m), Code - LXWXH | |
|-----|--|----------------|
| 4.1 | SP1 | 8.50X2.90X3.20 |
| 4.2 | SP2 | 5.80X2.00X2.30 |
| 4.3 | SP3 | 8.00X2.60X3.00 |
| 4.4 | SP4 | 6.50X2.20X2.50 |
| 4.5 | SP5 | 7.60X2.60X2.90 |
| 4.6 | SP6 | 4.20X1.40X1.70 |

For example, for SP1: L = 8.50, W = 2.90, H = 3.20.

It is noticed that in some locations the dimensions (W and H) are increased, this is to make sure that the factor of safety for the capacity of the septic tank is kept.

Q7: Joint venture is acceptable for this project?

- Answer: Joint venture is not acceptable for this project.