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## INVITATION TO BID

### Construction of Check Dam for DACAAR Program UNODC Project in Kajaki District of Helmand Province

اعلان داوطلبی برای اعمار و ساخت چک دم برای پروگرام داکار پروژه  
UNODC در ولسوالی کجکی ولایت هلمند

دفتر مرکزی  
گولایی وزیرآباد  
پست بکس ۲۰۸  
کابل، افغانستان  
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وبسایت: [www.dacaar.org](http://www.dacaar.org)

**Date: March 23, 2025**

#### DACAAR ITB 20 PRF-197/UNODC/2407-UNODC/UHLA1.1.1/03.2025

DACAAR needs Construction of Check Dam in Markhur Village Kajaki District of Helmand Province and invites interested parties to submit their sealed offers for the required job mentioned in Annex (I).

داکار برای اعمار و ساختمان یک چک دم که در ضمیمه (I) از آن به تفصیل ذکر گردیده در قریه مارخور ولسوالی کجکی ولایت هلمند ضرورت دارد، و از تمام علاقمندان واجد شرایط تقاضا بعمل میآورد تا آفر های سربسته شانرا قبل از معیاد تعیین شده به دفتر داکار بسپارند.

The offers must be submitted to DACAAR Main Office Logistics Unit located in Street No. 12, Taimani Project, Qala-e-Fathullah, Kabul Province till 4:00 PM April 12, 2025.

آفرها باید الی تاریخ 12 اپریل 2025 ساعت 4:00 عصر به شعبه لوجستیک دفتر مرکزی داکار واقع پروژه تاینمی پایکوب نصور سرک 12 قلعه فتح الله ولایت کابل سپرده شود.

The offers will be opened on April 13, 2025 at 10:00am in DACAAR Main Office, Kabul Province and the winner of the bidding will be notified shortly after the bid opening session.

مجلس آفرگشایی ساعت 10:00 قبل از ظهر تاریخ 13 اپریل 2025 در دفتر مرکزی داکار در ولایت کابل صورت میگیرد که متعاقباً برنده داوطلبی در اسرع وقت اطلاع خواهد یافت.

Please use Annex (III) for Technical Specification, Annex (II) for Work Plan and Annex (I) for Financial purposes.

لطفاً ضمیمه (I) را بخاطر ارایه آفر، ضمیمه (II) را بخاطر پلان کاری و ضمیمه (III) را بخاطر مشخصات تخنیکی مشاهده نمایند.

#### Terms and Conditions for Participation/Bid Winner

#### شرایط قرارداد برای برنده داوطلبی/ اشتراک کننده گان

- Contractor should Construct the Check Dam in Markhur Village Kajaki District of Helmand Province based on completion plan mentioned in Annex (II).
- Priority is given to construction companies.
- Similar works experience as prime contractor in the construction of at least one works in nature and complexity equivalent.
- Provision of all tools and equipment's required for the Construction of Check Dam belongs to the contractor.
- Payment will be made within 25 working days after technical team confirmation and successfully completion of the contract.

- قرارداد گیرنده مکلف است تا اعمار چک دم را که در قریه مارخور ولسوالی کجکی ولایت هلمند موقعیت دارد، طبق پلان کاری که در ضمیمه (II) ذکر گردیده تکمیل نماید.
- حق اولویت به شرکت های ساختمانی داده میشود.
- داشتن تجربه کاری مشابه حداقل یک پروژه که ماهیت و پیچیدگی آن مشابه به این پروژه باشد.
- تهیه تمام وسایل و مواد برای اعمار و ساختمان چک دم معه اعاشه و اباطه بدوش قرارداد گیرنده میباشد.
- پرداخت پول بعد از تصدیق بخش تخنیکی داکار و تکمیل نمودن مؤفقاته قرارداد در مدت 25 روز کاری اجرا میگردد.

6. The bid winner must deposit 10% amount of total contract value to DACAAR bank account as a Contract Performance Guarantee before signing the contract, the mentioned amount only refundable after successful completion of the contract.
6. برنده داوطلبی مکلف است تا 10% مجموع ارزش قرارداد را بشکل تضمین بانکی از اجرای کامل و مؤفانته قرارداد قبل از امضای آن به حساب بانکی داکار بپردازد. مبلغ متذکره در صورت اجرا مؤفانته قرارداد قابل باز پرداخت میباشد.
7. In case of delay in contract completion without any logical reasons, 0.5% of total value of the remaining work will be deducted from the payment. This penalty will charge per each official day of delay.
7. در صورت تأخیر در تکمیل قرارداد بدون عذر موجه در وقت معینه آن، مبلغ 0.5% از هر روز کار تأخیر شده بطور جرمانه از مجموع ارزش قرارداد اخذ میگردد.
8. Quotations should be valid for 60 official days.
8. قیمت داده شده باید برای مدت 60 روز کاری مدار اعتبار باشد.
9. Prices shall be given in Afghanis (AFN) and must include all duties, transport cost, loading and unloading costs. Offers without sign and stamp will not be accepted. Manipulated/overwritten offers will automatically be rejected.
9. قیمت ها به افغانی داده شود و باید شامل مالیات، انتقال، قیمت بارگیری و تخلیه باشد و قیمت هائیکه بدون مهر و امضای قابل قبول نمیشود. آفرهای قلم خورده گی بطور اتومات رد میگردد.
10. DACAAR's technical team (Site Engineer) will check quality of work. If it is not according to the specifications, DACAAR Technical Team has reserved the right to terminate the contract without any compensation paid to the contractor.
10. هئیت تفتیش و بررسی داکار کیفیت کار را به اساس قرارداد چک و ملاحظه نموده در صورتیکه مطابق به مشخصات قرارداد نباشد، داکار حق دارد تا قرارداد را بدون جبران کدام خساره فسخ نماید.
11. 2% Tax will be applicable on the companies that has valid business license and 7% Tax will be applicable on the companies that have invalid business license, or on individuals who do not have business license, will be deducted from the contractor as a withholding tax and DACAAR will pay that amount to Ministry of Finance, the amount starts from (1 AFN).
11. 2% مالیه برای شرکت هائیکه دارای جواز با اعتبار میباشد، و 7% مالیه برای شرکت هائیکه معیاد جواز آن تکمیل گردیده باشد، و یا اشخاصیکه جواز ندارند توسط داکار وضع گردیده و به وزارت مالیه پرداخت میشود، آغاز مبلغ از (1 افغانی).
12. DACAAR does not accept sub-contract, in case if it is found that the contract has given the contract to sub-contracting contractor, the contract will automatically be terminated and the supplier will lose their performance guarantee and no compensation will be paid to the contractor.
12. داکار به هیچ عنوان قرارداد دست دو را نه پذیرفته، در صورت وقوع چنین حالت قرارداد بصورت اتومات فسخ و قرارداد گیرنده پول تضمین و حق اجوره خویش را از دست میدهد.
13. DACAAR will not be responsible for any changes occurred during the contract such as (increment in custom duties, exchange rate etc.)
13. داکار به هیچ عنوان مسؤولیت بلند رفتن مالیات گمرکی، اسعار خارجی و غیره مواردی که باعث بلند رفتن قیمت در جریان قرارداد گردد ندارد.

14. DACAAR (Logistics Unit) adheres to National and International laws on child labour DACAAR makes sure all its suppliers and vendor abide by such laws preventing child labour in all DACAAR activities countrywide.
15. The Humanitarian Organizations (HO) may conduct on- site visit in the contractor's premises (or may take similar measures) to ensure compliance.
16. DACAAR has a zero-tolerance policy on sexual exploitation, abuse and harassment, which is defined and described in the policy document "DACAAR policy on preventing and handling sexual exploitation, abuse and harassment".
17. Award of contract will be based on the price, capacity and potentiality of bidder which will be decided after evaluation of the company; it is the right of DACAAR to make the decision of awarding contract.
18. All bidders should deposit amount of (50,000 AFN) to DACAAR AIB Bank Afghani Account (0528101008667400) as a Bid Security, otherwise; DACAAR has the right to take the decision.
- Note: All deposits (Bid Security/ Contract Performance Guarantee) will be refunded on proper application of vendors along with original bank deposit slip. The deposit (bid security/ contract performance guarantee) will not be refunded, if the supplier/ bidder withdraws or quits from the process.
14. دفتر داکار (شعبه لوژیستیک) با در نظر داشت قوانین ملی و بین المللی برای جلوگیری از کار کودکان مصمم بوده و سعی میکند که تمام فعالیتهای تهیه کننده گان و مشتریان این اداره به این اصل پایبند باشند.
15. سازمان های بشر دوستانه (HO) ممکن است تا از محلات و سایت ها به بخاطر اطمینان خاطر و تطبیق درست کار توسط قرار داد گیرنده بازدید بعمل آورده و یا ممکن است اقدامات مشابه را انجام دهد.
16. داکار دارای پالیسی عدم تحمل در مورد سوء استفاده، بد رفتاری و آزار و اذیت جنسی میباشد و موقف داکار در همچون مسایل بطور تفصیلی در پالیسی مذکور تشریح شده است.
17. برنده شدن قرارداد نظر به قیمت، توانائی و ظرفیت کاری داوطلب بوده و بعد از بررسی کمپنی صورت خواهد گرفت. البته داکار تنها حق تصمیم گیری در این زمینه را دارا میباشد.
18. تمامی داوطلبان باید مبلغ 50,000 افغانی را بطور تضمین اشتراک در داوطلبی به حساب افغانی داکار (0528101008667400) در بانک بین المللی افغانستان جمع نموده و رسید بانکی آنرا بداخل پاکت آفر بگذارند، در غیر آن داکار حق تصمیم نهایی را دارا میباشد.
- نوٹ: تمام تضمین ها (تضمین اشتراک در داوطلبی / تضمین اجرائیوی قرارداد) به اساس درخواست اشتراک کننده داوطلبی/ قرارداد کننده و ارایه اصل رسید بانکی پس پرداخت میگردد. داوطلب/ قرارداد گیرنده که از پروسه منصرف میگردد پول تضمین شان دوباره واپس نمیگردد.

For more details, please visit DACAAR Logistics Unit Main Office Kabul, Sunday through Thursday, from 8:00am to 03:00 PM or contact on below Email Addresses:

[jamal@dacaar.org](mailto:jamal@dacaar.org), [asad.zarmalwal@dacaar.org](mailto:asad.zarmalwal@dacaar.org) or [wasimullah@dacaar.org](mailto:wasimullah@dacaar.org)

Yours Sincerely,  
 Manager – Logistics Unit  
 Date: March 23, 2025

**ANNEX (I)**  
**Budget Breakdown/ فورم ارايه آفر**  
**DACAAR ITB 20 PRF-197/UNODC/2407-UNODC/UHLA1.1.1/03.2025**

**Construction of Check Dam for DACAAR Program UNODC Project in Markhur Village Kajaki District of Helmand Province:**

S.N	Item Name and Specification	Unit	Quantity	Unit Price (AFN) (Including 2% or 7% Government Tax, transportation cost)	Total Price (AFN) (Including 2% or 7% Government Tax, transportation cost)
1	Excavation and removal of excess materials up to 500M	M <sup>3</sup>	842		
2	Stone Masonary Work 1:4	M <sup>3</sup>	666		
3	PCC 1:1.5:3	M <sup>3</sup>	18		
4	PCC 1:2:4	M <sup>3</sup>	35		
5	Denese Filling with quality will grade	M <sup>3</sup>	296		
6	Pointing 1:3	M <sup>2</sup>	561		
7	Installation of one marble sign board 70*120cm	No	1		
8	Gravel in Foundation with 15cm thickness	M <sup>3</sup>	53		
9	Installation of Water Proof Concrete 1:4	M	13		
<b>Grand Total: AFN</b>					

Bidder Name: \_\_\_\_\_ اسم آفر دهنده:

Address and Stamp: \_\_\_\_\_ آدرس و مهر كمپنى

Contact No: \_\_\_\_\_ نمبر موبائيل

Email Address: \_\_\_\_\_ ايميل آدرس

Delivery Period: \_\_\_\_\_ زمان تحويل دهى

**ANNEX (II)**  
**Tentative Work Plan/ پلان کاری تخمینی**  
**DACAAR ITB 20 PRF-197/UNODC/2407-UNODC/UHLA1.1.1/03.2025**

**Construction of Check Dam for DACAAR Program UNODC Project in Markhur Village Kajaki District of Helmand Province:**

S/No	Specifications	Unit	Quantity of Work	Start Date of the Contract	End Date of the Contract
1	Excavation and removal of excess materials up to 500M	M <sup>3</sup>	842	Starts After DACAAR Contract Final Approval	July 30, 2025
2	Stone Masonary Work 1:4	M <sup>3</sup>	666		
3	PCC 1:1.5:3	M <sup>3</sup>	18		
4	PCC 1:2:4	M <sup>3</sup>	35		
5	Denese Filling with quality will grade	M <sup>3</sup>	296		
6	Pointing 1:3	M <sup>2</sup>	561		
7	Installation of one marble sign board 70*120cm	No	1		
8	Gravel in Foundation with 15cm thickness	M <sup>3</sup>	53		
9	Installation of Water Proof Concrete 1:4	M	13		

DACAAR  
Program/Technical & Coordination Unit  
Survey & Design Team



# Markhur Check Dam Drawings

Project Location:

Province:.....Helmand

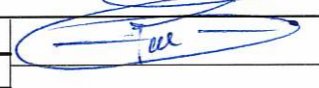

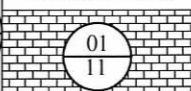
District:.....Kajaki

Village:..... Markhur

























Date: Jan 2025

## LIST OF DRAWINGS

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Section D-D,H-H	08
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Long Section	11

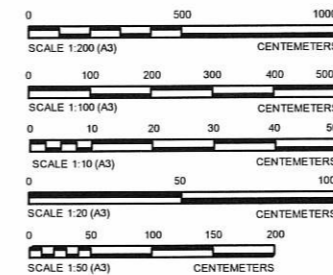
DACAAR / PROGRAM	Funded By	UNODC	Village	Markhur	Survey by	Eng. Sayed Zaki Sadat			Sheet Index	Project Title	CheckDam
	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	LIST OF DRAWINGS
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal				Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih					

**LEGEND:-**

	Center Line
	Direction of flow
	Grouted Stone Masonry/Pitching Section
	Mass concrete Section
	Brick Masonry
	P.C.C Block
	Gabion
	Gabion Section
	Wash/River Bed Material
	Geotextile Mattress
	Plain Cement Concrete
	Reinforced Cement Concrete
	Bank Protection
	Compacted Soil
	Hill
	H.F.L / M.W.L
	Elevation of the point is (100m) in section veiw
	Elevation of the point (100m) in Plan view
	Traverse Station
	Benchmark
	Lined Slope
	Earthen Slope
	Ground Level
	Stone Pitching/Rip Rap

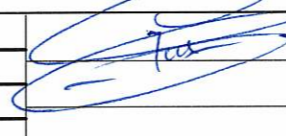
**ABBREVIATION:-**

Av	AVERAGE	ST	STATION
BM	BENCH MARK	THK	THICKNESS
B	WIDTH	TYP	TYPICAL
C/C	CENTER TO CENTER	HFL	HIGH FLOOD LEVEL
D	DEPTH OF WATER	U/S	UPSTREAM
DRG	DRAWING	YRS	YEARS
DIA , Ø	DIAMETER	Q	DESIGN DISCHARGE
D.W.L	DESIGN WATER LEVEL	W.L	WATER LEVEL
D/S	DOWNSTREAM	N.T.S	NOT TO SCALE
EL.	ELEVATION		
F.B	FREE BOARD		
HFL	HIGH FLOOD LEVEL		
HT.	HEIGHT		
H.G.L	HYDRAULIC GRADE LINE		
KM , km	KILOMETERE		
M ,m	METRE		
Chkd	CHECKED		
Apprvd	APPROVED		
M . W .L	MAXIMUM WATER LEVEL		
MIN	MINIMUM		
No(s)	NUMBER(S)		
N.G.L	NATURAL GROUND LEVEL		
P.C.C	PLAIN CEMENT CONCRETE		
R.C.C	REINFORCED CEMENT CONCRETE		



**Notes:**

- 1- All dimensions are in cm or as specified on drawing.
- 2- For concrete class and stone masonry type refer to Contract Specifications.
- 3- All cut-offs to be constructed against undisturbed soil.
- 4- Location of the structure, setting out and elevations to be confirmed by the WMD representative before construction.
- 5- The contractor shall construct and maintain all necessary channels, diversion and other temporary works necessary to ensure that irrigation water supplies are not interrupted during construction works.
- 6- All elevations are based on local benchmark.
- 7- Coordinates and elevation of local benchmark are attached to every single site.
- 8- Contraction joint in concrete coping at wall top shall be provided at 1.0m centers
- 9- Contraction joint in concrete base slab shall be provided at 2m centers.
- 10- Minimum concrete cover to steel reinforcement shall be 50mm.
- 11- Steel reinforcement shall have a minimum yield stress of 250N/mm<sup>2</sup>.
- 12- For retaining wall more than 12m in length, expansion joint shall be provided at 12m centers.
- 13- Abbreviations used:  
 GI stands for galvanized iron  
 EW stands for each way  
 EF stands for each face  
 FB stands for free board  
 Dia stands for diameter  
 MS stands for mild steel

DACCAAR / PROGRAM	Funded By	UNODC	Village	Markhur	Survey by	Eng. Sayed Zaki Sadat		Scale Meter	Sheet Index	Project Title	CheckDam
	Implemented By	DACCAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat			02 11	Drawing Title	ABBREVIATION
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal				Date :	Jan-2025



# BRIEF TECHNICAL SPECIFICATIONS

## CONCRETE WORKS:

- 1 - All air - entraining plain cement concrete should be M-200 by wright or be as specified on the drawings.
- 2 - All PCC to have cement, sand and aggregate as specified on the drawings.
- 3 - Concrete design should be based on a compressive strength of  $f_c = 200\text{kg/cm}^2$  or as specified on the drawings.
- 4 - Weight per unit volume of concrete  $W=2400\text{kg/m}^3$ .
- 5- Sand or fine aggregate shall be free from salt, Alkali, Calcium sulphate or Vegetation and it shall not contain more than 0.5 percent by weight clay.
- 6 - Aggregate:- Coarse aggregate shall consist of crushed gravel with the maximum size of 20mm.
- 7 - The maximum slump for concrete should be between ( 5 - 7.5 )cm. ( For difrent concrete type refer to general specification ).
- 8 - To increase the workability of the concrete provide the chemical admixture ( Super plasticizer, If required ).
- 9 - Water used for concrete mixture and concrete curing shall be from a source approved by the Engineer and at the time of use shall be free from contaminants.
- 10- Concrete compaction should be done by using concrete vibrator at the time of pouring in such a way to form a solid compact concrete.
- 11- Concrete curing should by continued for 28 days.
- 12- During cold weather concreting should be stopped or the contractor has to consider cold weather concreting procedure as accepted by the Engineer. ( Or refer to general specification ).
- 13- Concrete shuttering / formwork should be of steel or wooden type.
- 14- Concrete shuttering can be removed as per below minimum duration:  
Side of beams, Walls, Columns ( 16 - 24 Hours ).  
Forms from beneath the slabs ( Spaning up to 6m. ) 14 Days.  
Forms from beneath the slabs ( Spaning above 6m. ) 21 Days
- 15- All air entrained concrete with 4.5% - 7% of air volumes should be used instead of normal concrete works by adding approved admixture.
- 16- All RCC should be M-25.
- 17- All blinding PCC shall be M-10.
- 18- Reinforcement yield strength  $f_y$  shall not be less that (  $2500\text{kg/cm}^2$  ).

## MASONRY WORKS:

- 1 - Plum / Mass air - entraining concrete shall contain a maximum of 40% stone with a maximum stone size as 20cm.  
The concrete ratio shall be M-20.
- 2 - Stone for Stone masonry, Gabion and grouted stone pitching should be of good quality and approved by Engineer.
- 3 - All stone masonry for foundations should be with ratio of (1:3 ).
- 4 - All masonry cutoff wall shall be with ( 1:3 ) Cement sand mortar or as specified on the drawing.

## EARTH WORKS:

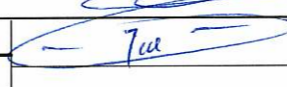
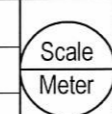
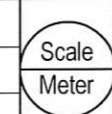
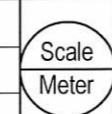
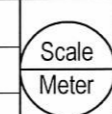
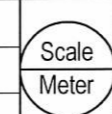
- 1 - Backfilling material should be properly tested and selected to be suitable as per standard practice.
- 2 - For backfilling maximum thickness of each loose soil layer should not more than 15cm. According to general specification.
- 3 - Standard compaction tests should be carried out for the backfilling.
- 4 - The percentage of compaction should be not less than (92 - 95)% of the maximum dry density of selected material by the Engineer.

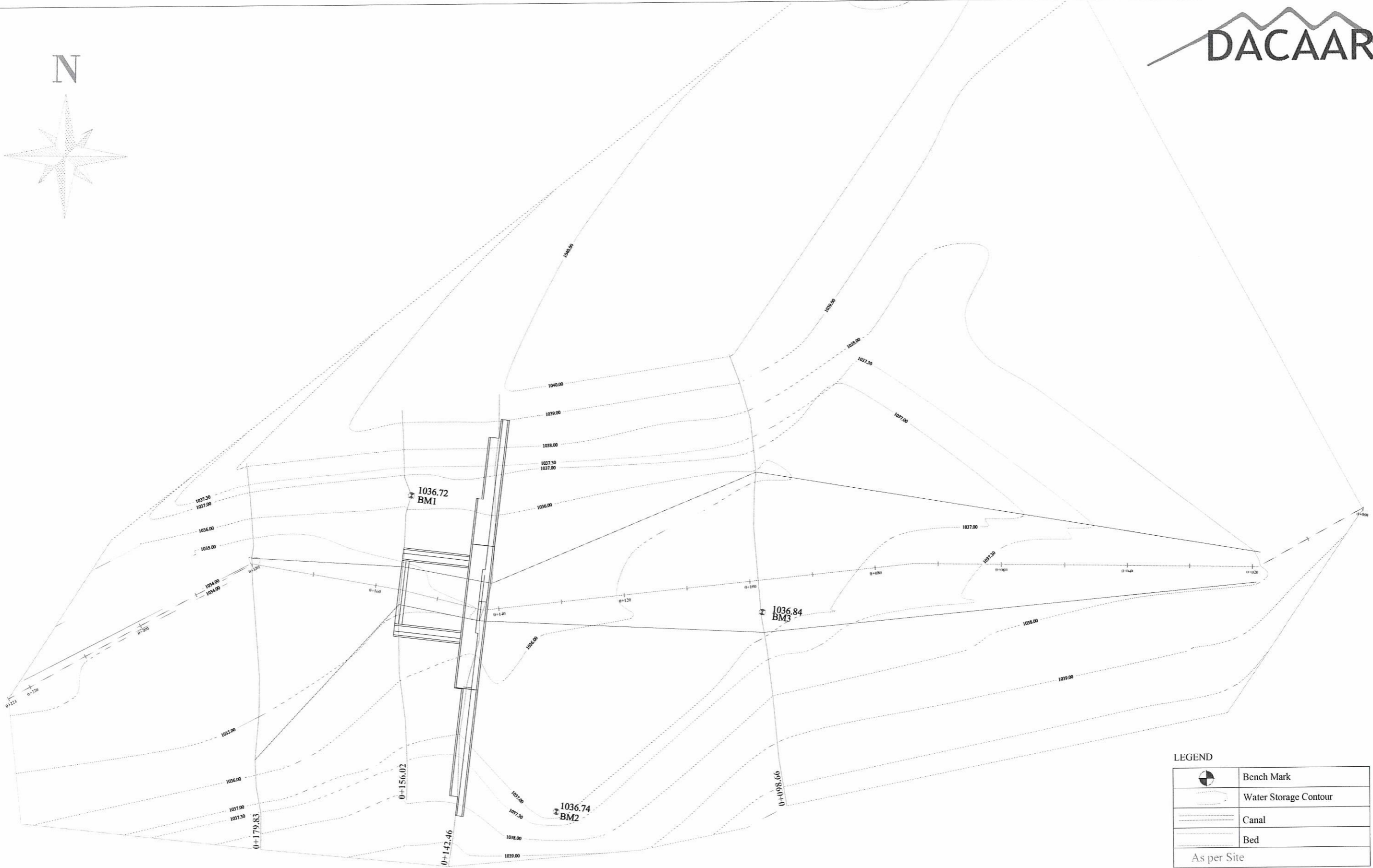
## GABION WORKS:

- 1 - Stone size for gabion shall range from ( 20 - 30cm ) dia. According to general specification.
- 2 - Galvanized iron wier of specified thickness ( 2.7- 3.0 )mm Should be properly woven and knotted together to form the required mesh in hexagonal / rectangular shape of size ( 8 - 10cm ) for gabion basket and ( 10 - 12cm ) for gabion mattress to fabricate gabion boxes to the saftsfaction of the Engineer.
- 3 - Principal wire along the gabion edges ( Selvedges ) for gabion boxes should be of galvanized iron having minimum thickness of ( 4mm ).
- 4 - Gabion galvanized iron wire tensile strength should be ( 350 - 575 N /  $\text{mm}^2$  ).

## OTHERS:

- 1 - Bitumen coating should be used in all contraction / Expansion joints.
- 2 - All quality control field tests should be carried out by the contractor in a specified laboratory as accepted by the client.
- 3 - Construction joints for PCC and masonry walls should be provided as ( 15 - 20m ) center to center.
- 4- All diversions and flood protection works is contractor responsibility,

DACAAR / PROGRAM	Funded By	UNODC	Village	Markhur	Survey by	Eng. Sayed Zaki Sadat			Sheet Index	Project Title	CheckDam			
	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat					Drawing Title	BRIEF TECHNICAL SPECIFICATIONS		
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal							Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih								



### Topo Plan of Check Dam

**LEGEND**

	Bench Mark
	Water Storage Contour
	Canal
	Bed
As per Site	

**Bench Mark Table**





Point #	Elevation	Northing	Easting	Description
50	1036.74	3582892.13	701321.59	BM2
57	1036.84	3582926.50	701351.13	BM3
100	1036.72	3582939.16	701293.75	BM1

DACAAR / PROGRAM	Funded By	UNODC	Village	Markhur	Survey by	Eng. Sayed Zaki Sadat		Scale Meter	Sheet Index 	Project Title	CheckDam
	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	Topo Plan Of Check Dam
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal				Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih					



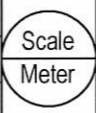
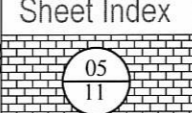
**Site Plan of Check Dam**

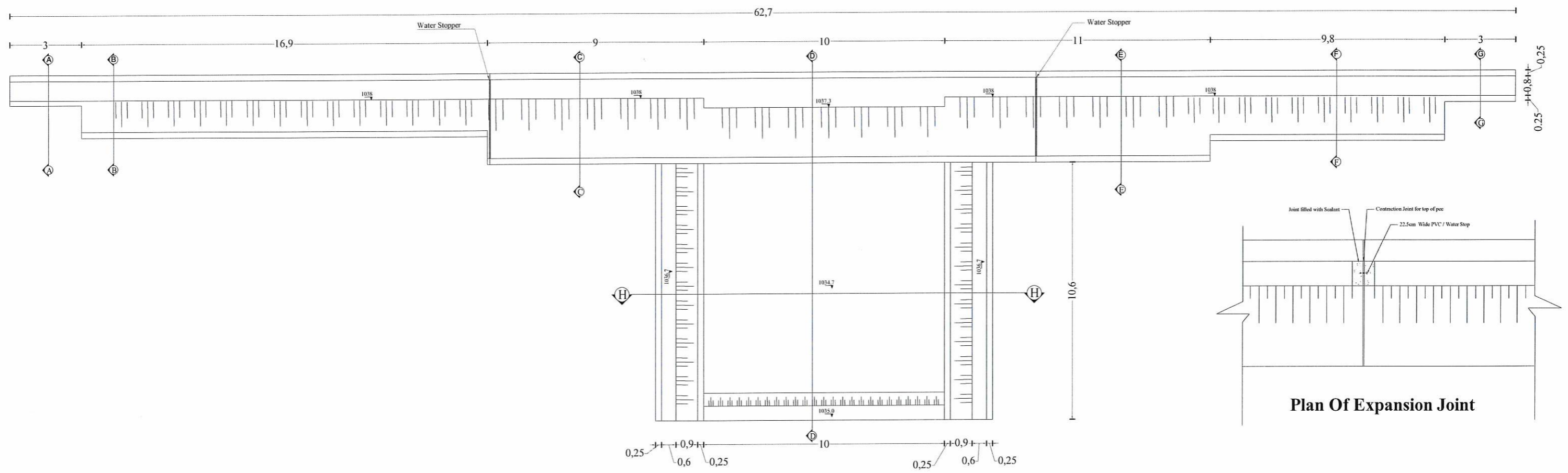
**LEGEND**

	Bench Mark
	Water Storage Contour
	Canal
	Bed
As per Site	

**Bench Mark Table**

Point	Elevation	Northing	Easting	Description
50	1036.74	3582892.13	701321.59	BM2
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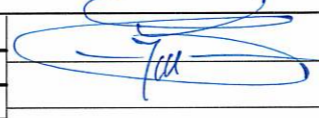
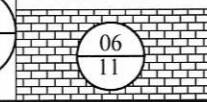
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	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat			Drawing Title	Site Plan Of Check Dam
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal			Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih				

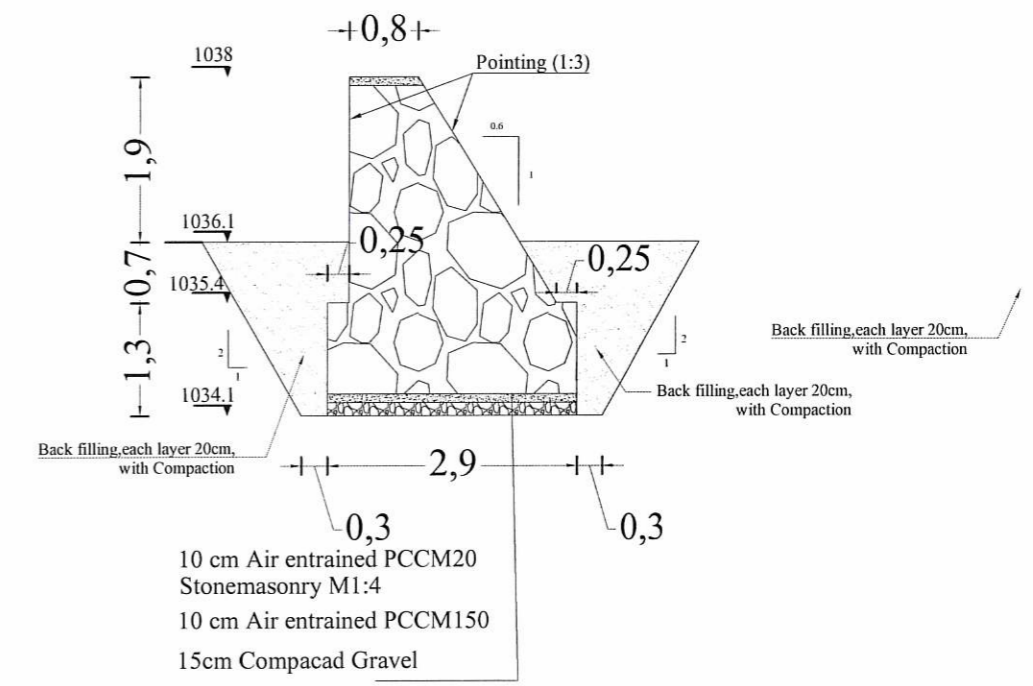
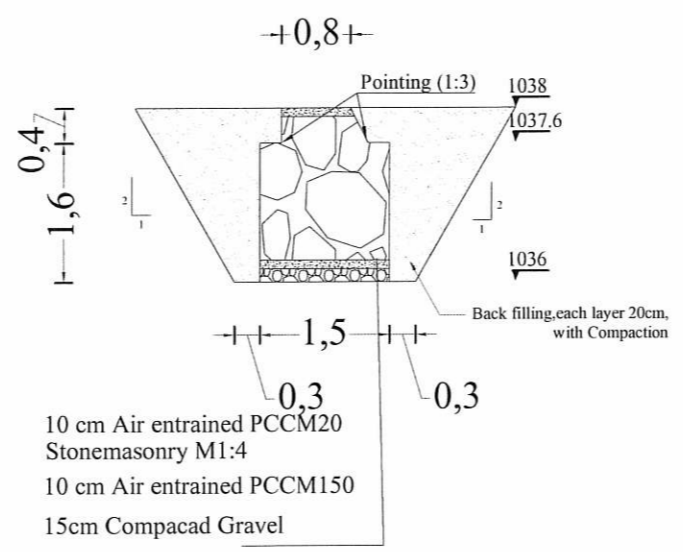
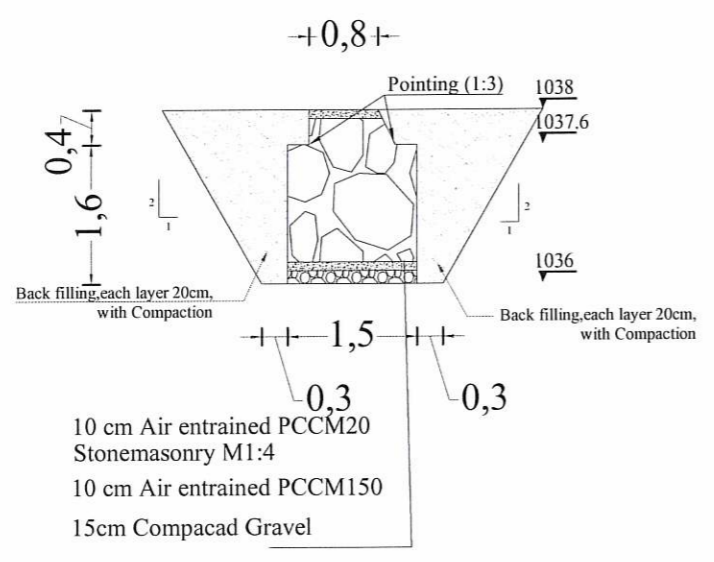
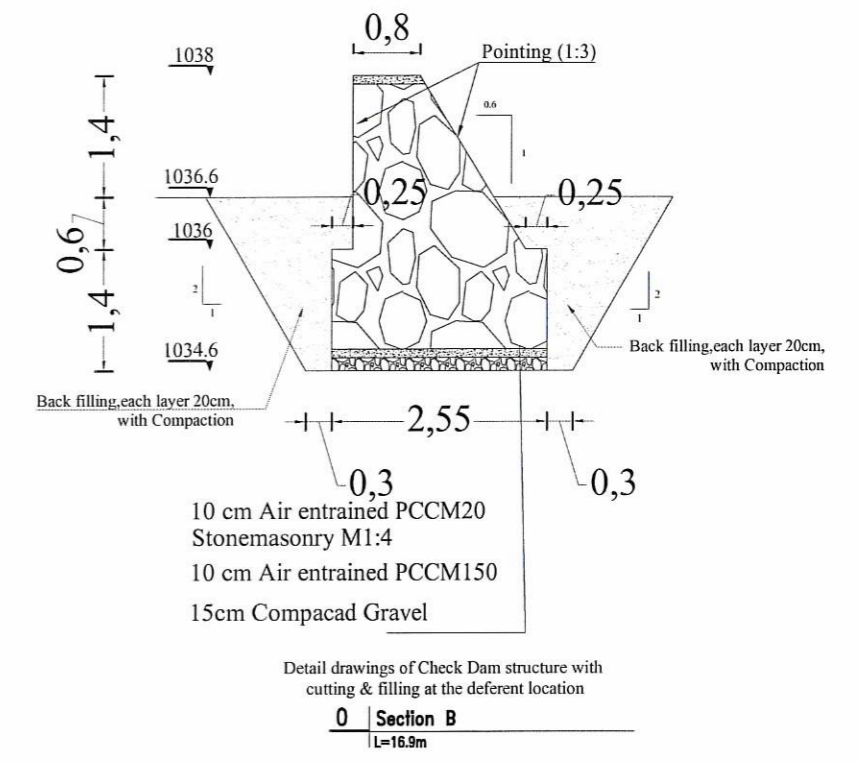
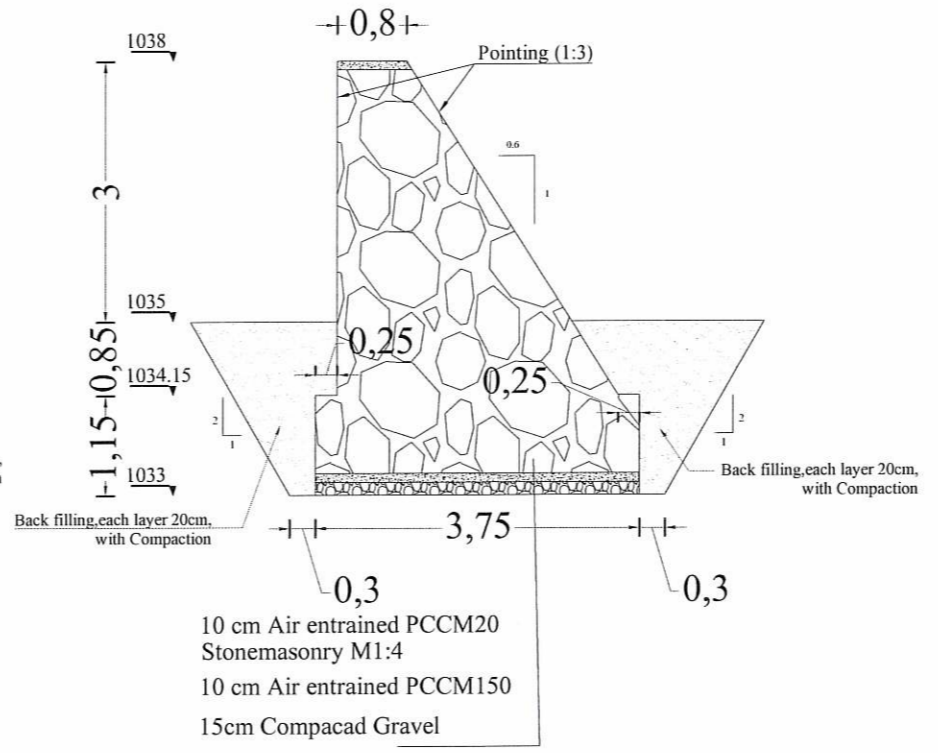
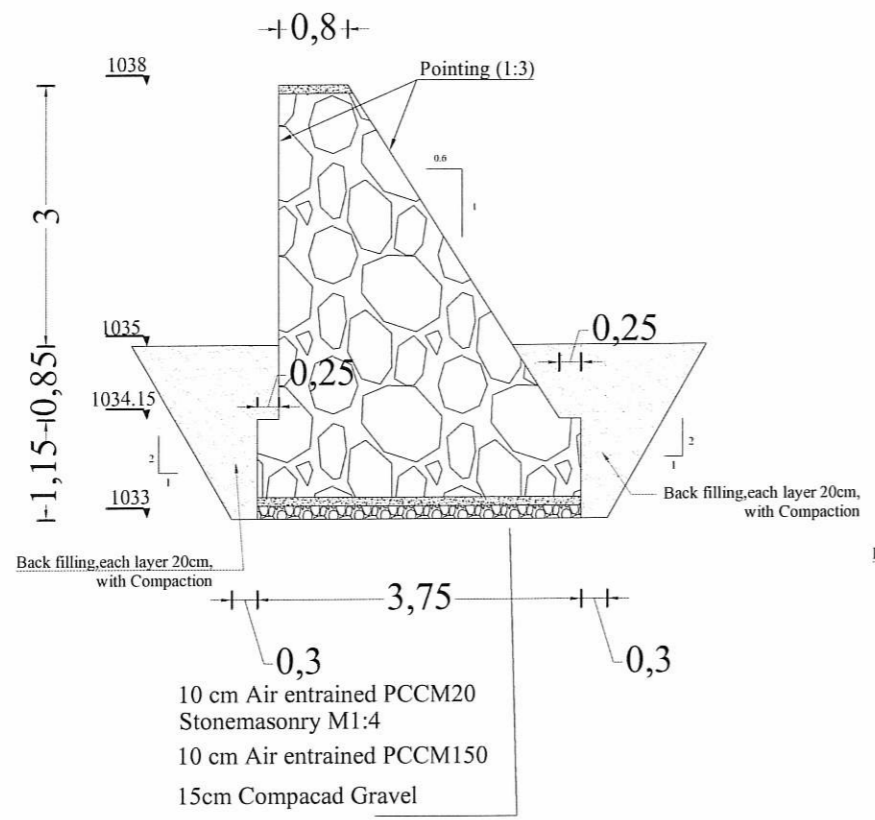


**Plan Of Check Dam**

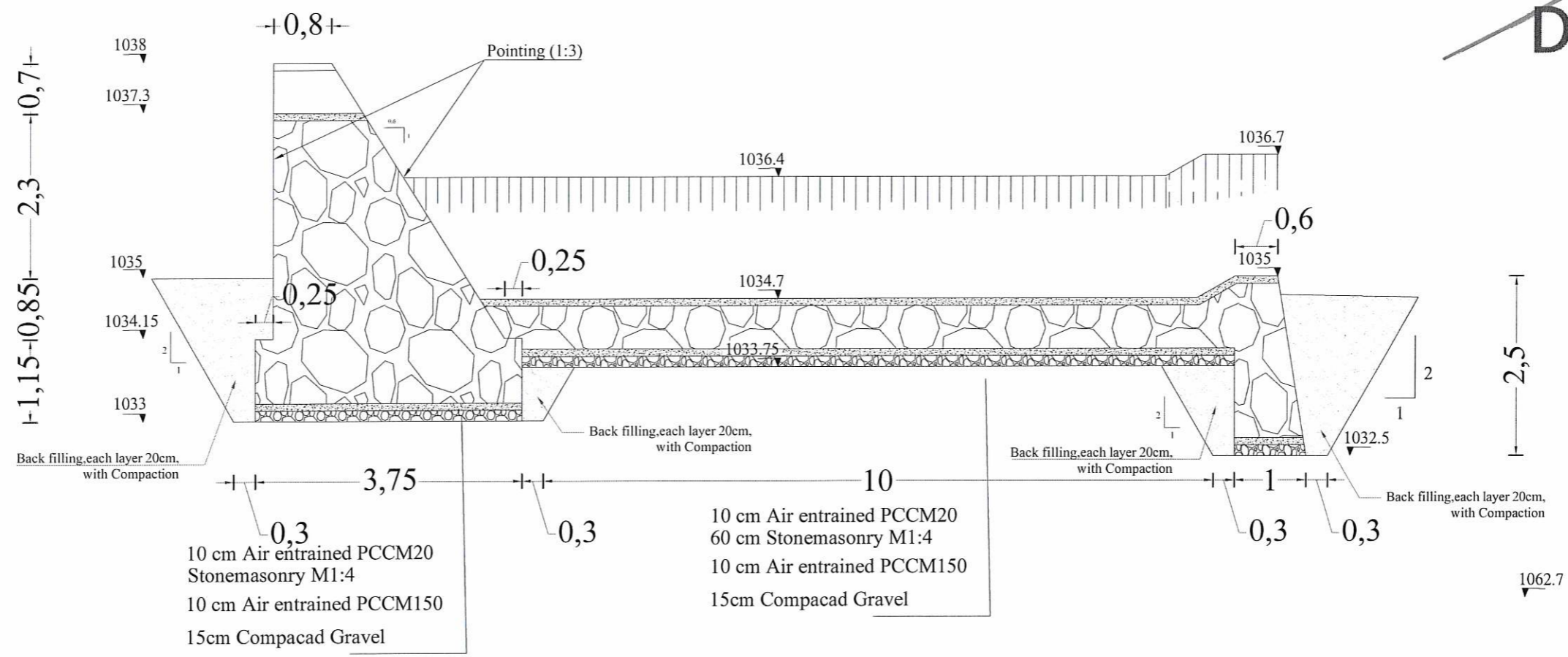
**Note:**

- All dimensions are in M.
- All Excavated material can be use it upstream and downstream faces fillings with 90% Compaction.
- Filling layers must not be Pave more than (15-20)cm thickness.

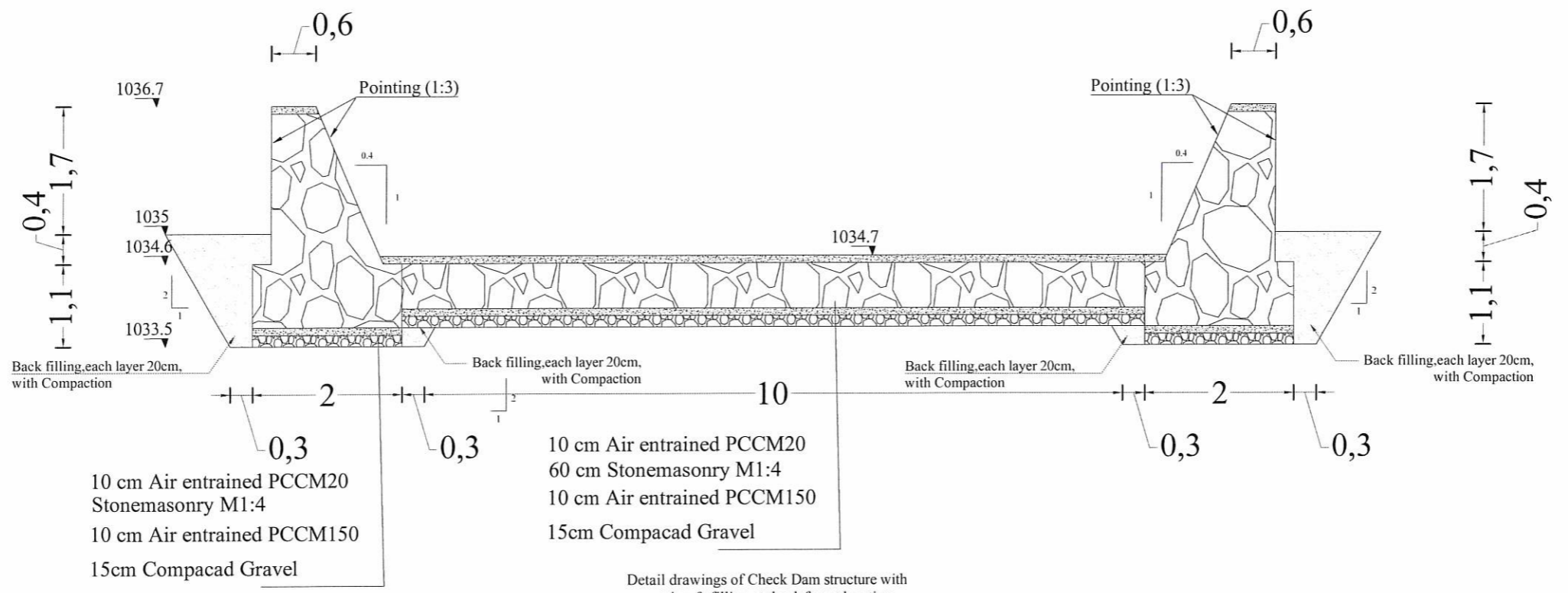
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	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	Plan Of Check Dam
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal				Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih					



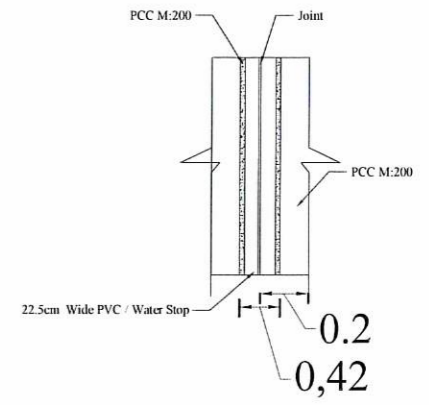
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	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat			Drawing Title	Detail drawings of Check Dam
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal			Date :	Jan-2025
			Checked & Approved By	Eng. Abdul Wali Muslih						



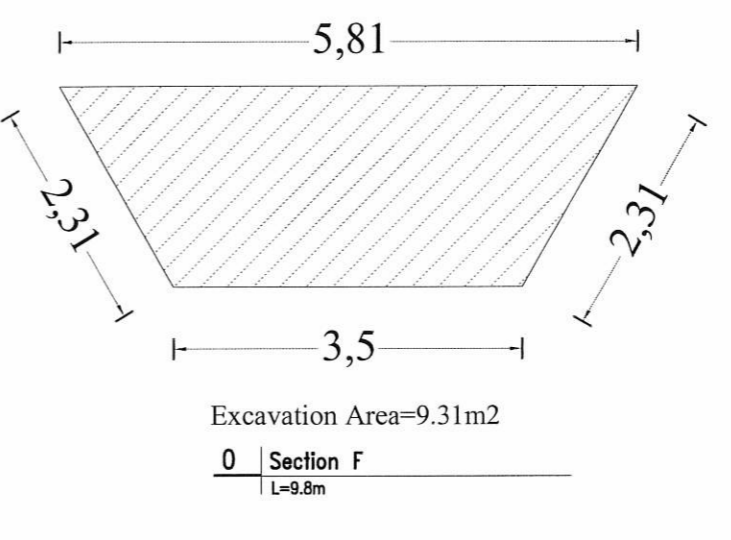
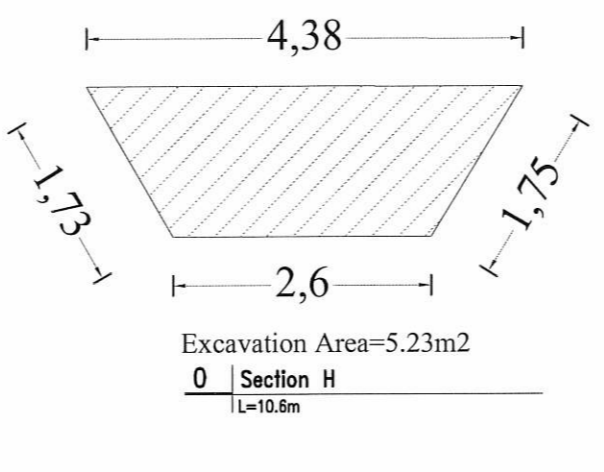
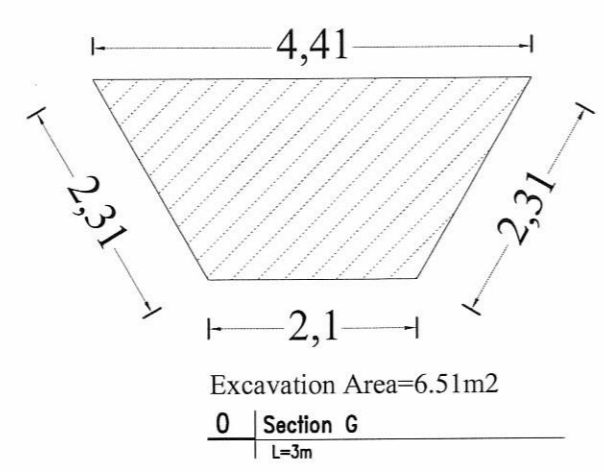
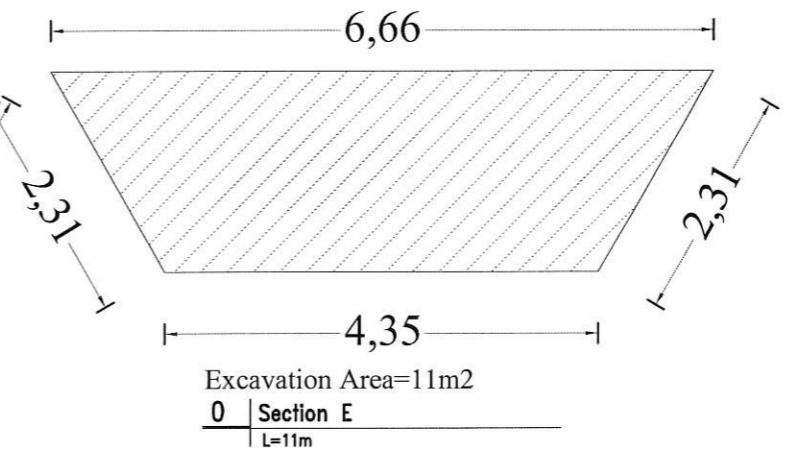
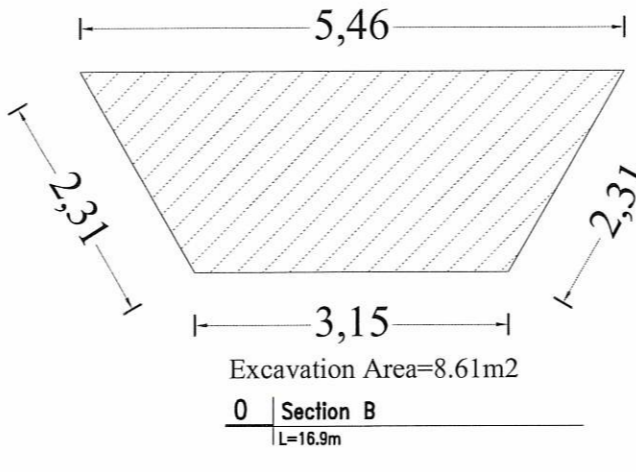
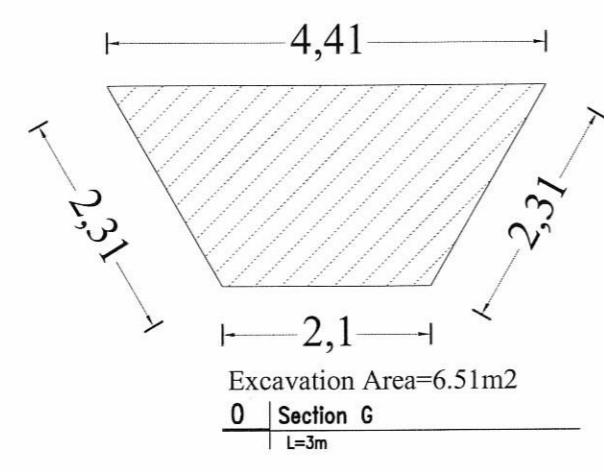
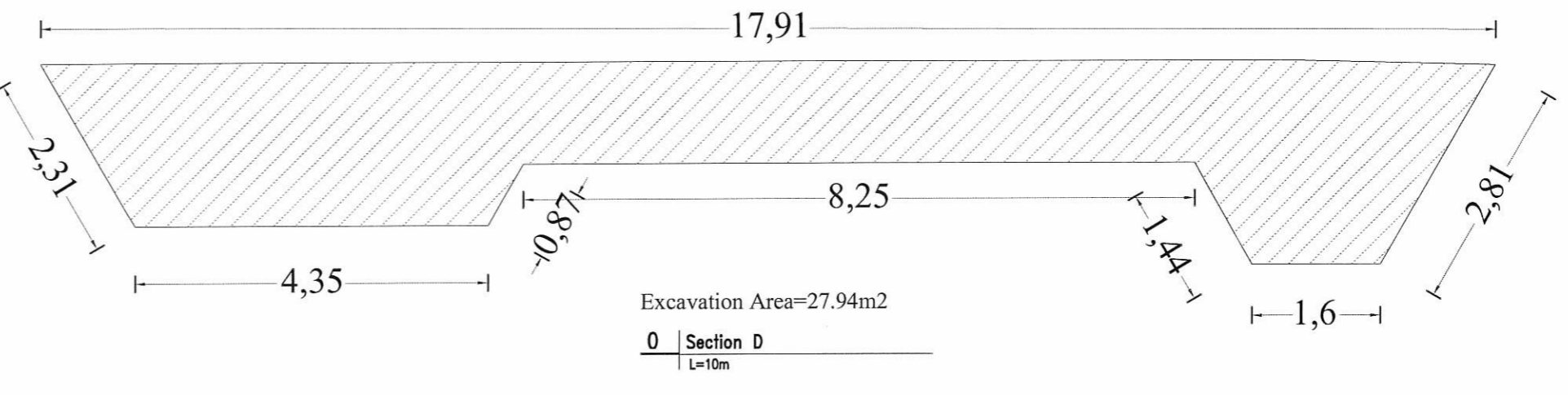
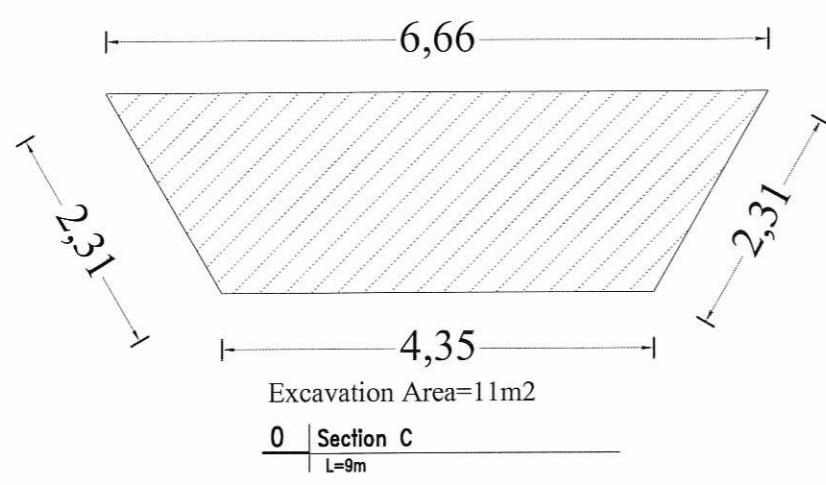
Detail drawings of Check Dam structure with cutting & filling at the deferent location  
**0 Section D**  
 L=10m

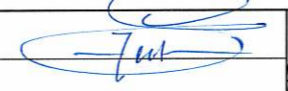



Detail drawings of Check Dam structure with cutting & filling at the deferent location  
**0 Section H**  
 L=10.6m

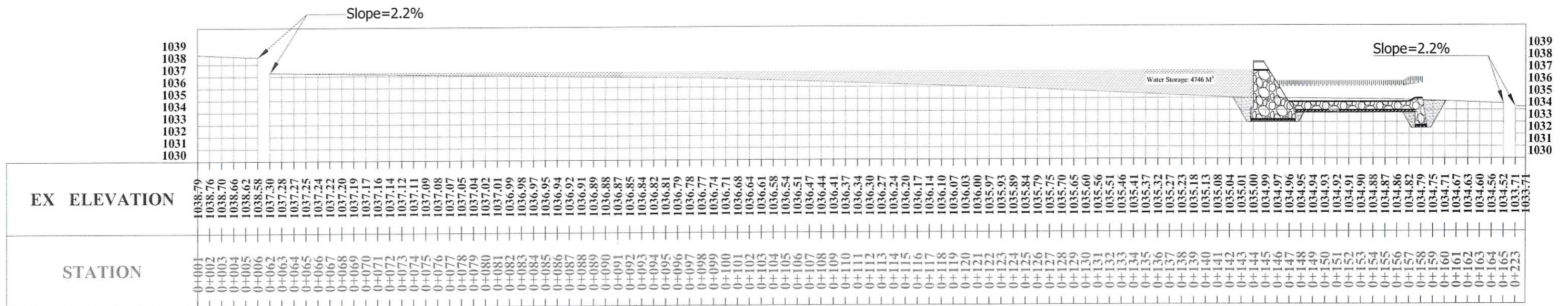


DACAAR / PROGRAM	Funded By	UNODC	Village	Markhur	Survey by	Eng. Sayed Zaki Sadat	Scale Meter	Sheet Index 08 11	Project Title	CheckDam
	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat			Drawing Title	Detail drawings of Check Dam
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal			Date :	Jan-2025
			Checked & Approved By	Eng. Abdul Wali Muslih						

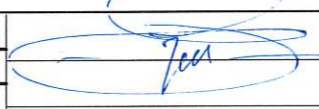
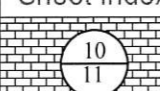


DACCAAR / PROGRAM	Funded By	UNODC	Village	Markur	Survey by	Eng. Sayed Zaki Sadat	 Scale Meter	Sheet Index 	Project Title	CheckDam
	Implemented By	DACCAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat			Drawing Title	Cutting Section
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal			Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih				

# MARKUR PROJECT PROFILE

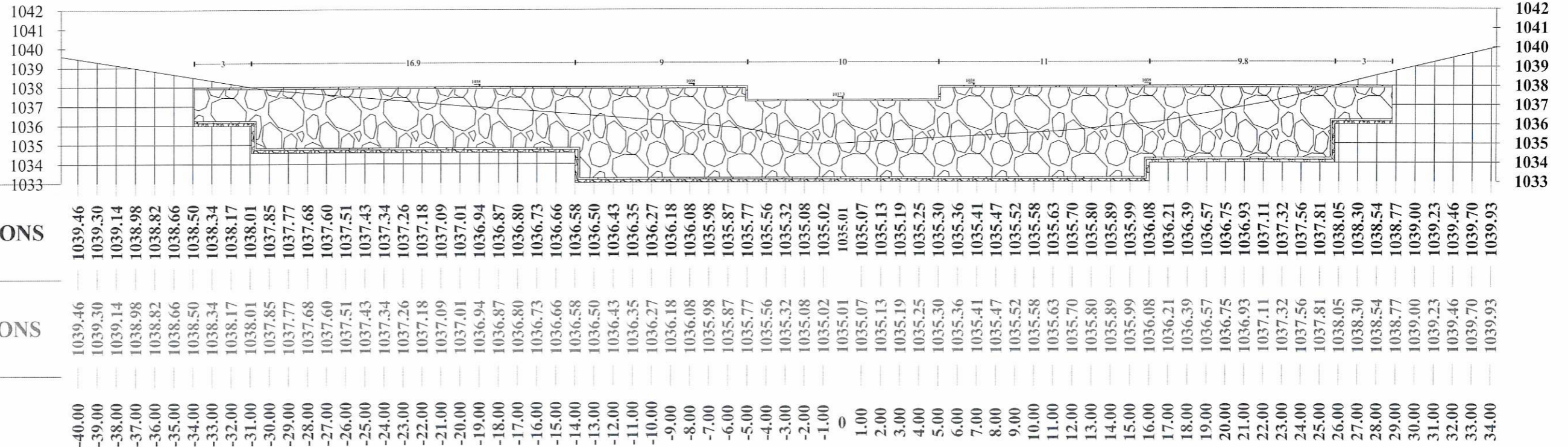


MARKHUR CHECK DAM ON RIVER L- SECTION




DACAAR / PROGRAM	Funded By	UNODC	Village	Markhur	Survey by	Eng. Sayed Zaki Sadat		Scale Meter	Sheet Index 	Project Title	CheckDam
	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	L- SECTION
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal				Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih					



0+142.46



MARKHUR CHECK DAM ON RIVER X- SECTION AT CH:0+142.46

DACAAR / PROGRAM	Funded By	UNODC	Village	Markhur	Survey by	Eng. Sayed Zaki Sadat				Project Title	CheckDam
	Implemented By	DACAAR	District	Kajaki	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	X- SECTION AT CH:0+142.46
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal				Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih					

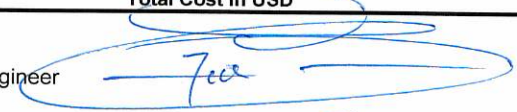
**DACAAR - Program**  
**Technical and Coordination Unit/Survey and Design Team**  
**Bill of Quantity (BOQ) for Construction of Morkhur Check Dam**

Province: Helmand  
 District: Kajaki  
 Village: Morkhur

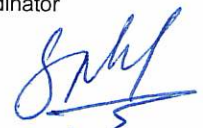
Subproject Name: Morkhur  
 Estimation Date: 26.01.2025  
 Submitting Date: 26.01.2025

No.	Item	Activities %	Quantity	Unit	Unit cost Afs	Total cost Afs	Contribution	
							CDC, Afs	DACAAR, Afs
1	Mobilization: includes the price of all activities such as the transfer of personnel, tools, vehicles, field establishment office and other activities for the implementation of the project and demobilization.		1	LS				
2	"Excavating normal works: which means digging works that were done without hydraulic machines and removal of excess materials up to 500 meters or according to the instructions of the field engineer. For more clarification, refer to paragraph 2.02 of technical specifications		842	M3				
3	Dense filling" refers to the filling of material with the quality of Will Grade, which can be verified from one area and its density is not less than 90% of Proctor Mody Fide ATM. If the compaction is done by machine, the thickness of the soil should not be increased from 20 cents, in the images of compacting the soil by manual machines, its thickness should not be increased from 10 cents.		296	M3				
4	Stone Masonry work M(1:4): Wall stonework with a compromise of 1:4, with all its positive features, the stone must be solid, clean and free of dust according to the plan and opinion of the supervising engineer of the area.		666	M3				
5	15cm thick sea gravel in the lower part of the tahadab: preparing, pouring and compacting the gravel filter made of vale-graded materials, it is poured under the paving stones or gabions (first, the tahadab is tamped, then the sea gravel carpet, then the paving stones or gabion work should be started.) These materials are a combination of sea sand with sea gravel or crushed gravel, which is the combination of the same sand and well Graded gravel. Approval of materials and type of work should be approved by the field engineer.		53	M3				
6	PCC M(1:1.5:3): Concrete without spikes with 20 MPa brand preparation, pouring, compacting and watering of 20 brand concrete, including molding with positive things according to the plan, technical specifications and approval of the supervising engineer.		18	M3				
7	PCC M(1:2:4): Concrete without spikes with 15 MPa mark: preparation, pouring, compacting and watering of concrete mark 15, including molding with positive things according to the plan, technical specifications and approval of the supervising engineer.		35	M3				
8	Pointing, M (1:3): Pointing work is done with a ratio of cement and sand of 1:3, which includes materials, workers, soil, watering, etc. be executed Previously, from the beginning of the work, the seams should be cleaned up to 3 cm, then the work should be started. At the end of the work on the stones, the excess material should be cleaned in its correct shape. For more clarification, refer to paragraph 4.05 of the technical specifications.		561	M2				
9	Installation of waterproof PCC concrete (1:4): with positive aspects under the supervision of the supervising engineer.		13	m				
<b>Total Cost in Afg</b>								
<b>Total Cost in USD</b>								
						<b>0 Afs</b>		
						\$0	\$0	

Prepared by:

Name: Sayed Zaki Sadat  
 Position: Survey & Design Engineer  
 Signature: 

Review and Checked by:

Name: Sayed Najib Jalal  
 Position: Survey & design Coordinator  
 Signature: 

Program / Technical Unit 2025

Authorized by:

Name: Eng. Ab. Wali Muslih  
 Position: Manager Technical & Coordination Unit  
 Signature: 

Approved by:

Name: Eng. Shah Wali  
 Position: Deputy Director/Head of Program  
 Signature: 

26,01,2025

11/02/2025

12.02.25

**DACAAR - Program**  
**Technical and Coordination Unit/Survey and Design Team**  
**Bill of Quantity (BOQ) for Construction of Morkhur Check Dam**

Province: Helmand  
 District: Kajaki  
 Village: Morkhur

Subproject Name: Morkhur  
 Estimation Date: 26.01.2025  
 Submitting Date: 26.01.2025

S/N	Description	QNT	Unit	Weeks												
				1	2	3	4	5	6	7	8	9	10	11	12	
1	Mobilization: includes the price of all activities such as the transfer of personnel, tools, vehicles, field establishment office and other activities for the implementation of the project and demobilization.	1	LS													
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4	Stone Masonry work M(1:4): Wall stonework with a compromise of 1:4, with all its positive features, the stone must be solid, clean and free of dust according to the plan and opinion of the supervising engineer of the area.	666	m3													
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6	PCC M(1:1.5:3):Concrete without spikes with 20 MPa brand preparation, pouring, compacting and watering of 20 brand concrete, including molding with positive things according to the plan, technical specifications and approval of the supervising engineer.	18	m3													
7	PCC M(1:2:4):Concrete without spikes with 15 MPa mark: preparation, pouring, compacting and watering of concrete mark 15, including molding with positive things according to the plan, technical specifications and approval of the supervising engineer.	35	m3													
8	Pointing,M (1:3): Pointing work is done with a ratio of cement and sand of 1:3, which includes materials, workers, soil, watering, etc. be executed Previously, from the beginning of the work, the seams should be cleaned up to 3 cm, then the work should be started. At the end of the work on the stones, the excess material should be cleaned in its correct shape. For more clarification, refer to paragraph 4.05 of the technical specifications.	561	m2													
9	Installation of waterproof PCC concrete (1:4): with positive aspects under the supervision of the supervising engineer.	13	m													

Prepared by:  
 Name:  
 Position:  
 Signature:

**Sayed Zaki Sadat**  
 Survey & Design Engineer

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 26,01,2025

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**Sayed Najib Jalal**  
 Survey & Design Coordinator

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 11/02/2025

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**Eng.Ab.Wali Muslih**  
 Manager Technical & Coordination Unit

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 26/01/25

Approved by:  
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**Eng. Shah Wali**  
 Deputy Director/Head of Program

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 12.02.25

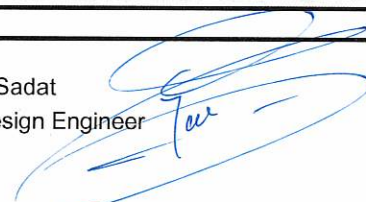
**DACAAR - Program**  
**Technical and Coordination Unit/Survey and Design Team**  
**Bill of Quantity (BoQ) For Construction of Markhur Check Dam**

Province: Helmand  
 District: Kajaki  
 Village: Markhur  
 Contract:  
 Subproject Name: Morkhur Check Dam  
**1 - BOQ Detail**


Date Prepared: 12.02.2025

Title	No.	Item	Norm/ Factor	Quantity	Unit	Unit cost	Total cost
						Afs	Afs
A1	1	<b>Excavation</b>		<b>842.00</b>	<b>m3</b>	-	-
	1.01	Unskilled labor on site	0.5	421.00	md	-	-
A2	2	<b>Stone Masonry M(1:4) work</b>		<b>666.00</b>	<b>m3</b>	0	-
	2.01	Stone including transportation	1.1	732.60	m3	-	-
	2.02	Sandy gravel including Transportation	0.378	251.75	m3	-	-
	2.03	Cement including transportation	114	75924.00	kg	-	-
	2.04	Water	57	37962.00	liter	0.00	-
	2.05	Skilled labor on site	0.5	333.00	md	-	-
	2.06	Unskilled labor on site	1	666.00	md	-	-
A3	5	<b>Gravel including transportation</b>		<b>53.00</b>	<b>m3</b>	-	-
	5.01	Gravel	1.1	58.30	m3	-	-
	5.02	Unskilled labor on site	0.5	26.50	md	-	-
A4	7	<b>Pointing of stone work M(1:3)</b>		<b>561.00</b>	<b>m2</b>		
	7.01	Sand including Transportation	0.024	13.46	m3	-	-
	7.02	Cement M(1:3) including transportation	2	1122.00	kg	-	-
	7.03	Water	1	561.00	liter	-	-
	7.04	Skilled labor on site	0.17	95.37	md	-	-
	7.05	Unskilled labor on site	0.05	28.05	md	-	-
A5	8	<b>Filling with soil/gravel and compaction</b>		<b>296.00</b>	<b>m3</b>	-	-
	8.01	Unskilled labor on site	0.5	148.00	md	-	-
A6	10	<b>PCC M (1:1.5:3)</b>		<b>18.00</b>	<b>m3</b>		
	10.01	Sand Gravel including transportation	1.055	18.99	m3	-	-
	10.02	Cement including transportation	250	4500.00	kg	-	-
	10.03	Water	200	3600.00	liter	-	-
	10.04	Skilled labor on site	0.7	0.78	md	-	-
	10.05	Unskilled labor on site	3.6	3.90	md	-	-
A7	11	<b>PCC M (1:2:4)</b>		<b>35.00</b>	<b>m3</b>	0	-
	11.01	Sand Gravel including transportation	1.157	40.50	m3	-	-
	11.03	Cement including transportation	230	8050.00	kg	-	-
	11.04	Water	115	4025.00	liter	-	-
	11.05	Skilled labor on site	0.65	22.75	md	-	-
	11.06	Unskilled labor on site	3.25	113.75	md	-	-
	A8	8	Installation of Waterproof PCC concret		<b>13.00</b>	<b>m</b>	
A9	9	<b>Mobilization</b>		<b>1.00</b>	<b>LS</b>	0	0.00
<b>Total Cost in Afg</b>							


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 Signature: 

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Name: Eng. Shah Wali  
 Position: Deputy Director/Head of Program  
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