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</table>
PEZU DAM SITE
(32°19'39"
70°44'21'"

LEGENDS
Q = Quaternary Deposits
TED = Lockhart Formation and Hangu Formation Undifferentiated
Mz = Mesozoic Rocks (Undivided)
- Kawagarh Formation
- Lunshawa Formation
- Chischoli Formation
- Samanassak Formation
- Shihwara Formation
PET = Tanawal Formation
PEm = Hazara Formation

SOURCE:
Geological Map of Pakistan
(Published by GSP 1993)
El. 1177.00
PROPOSED DAM AXIS
EL. 1177.00

NOTES
1. ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

MAIN DAM AXIS

MAIN RADIAL (LONGEST FETCH)
Length = 0.696 mile

MAIN RADIAL
Length = 0.097 mile

NORMAL RESERVOIR WATER SURFACE
El. 1163.0 ft. a.m.s.l.

MAXIMUM RESERVOIR WATER SURFACE
El. 1172.47.0 ft. a.m.s.l.

MAIN RADIAL (LONGEST FETCH)
Length = 0.865 mile

MAIN RADIAL
Length = 0.182 mile

MAIN DAM AXIS

MAIN RADIAL
Length = 0.169 mile

ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
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PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 & 8, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

SMALL DAM PROJECT
PEZU DAM PROJECT
TOE DRAIN PLAN

SHEET 5 OF 5
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

LEGEND

- BOUNDARY
- ON-TARGET (GROIN)
- OVERLAP
- LAYSTONE
- SANDSTONE
- INVESTIGATIONS AT P.S.
- INVESTIGATIONS AT L.O.

SHORT NAME  LOCATION  DATE  REVISION  SHEET

SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION
DEPARTMENT KHYBER PAKHTUNKHAWA
PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

L-SECTION ALONG DAM AXIS

LEFT ABUTMENT

RIGHT ABUTMENT

0 170 340 FEET

DAM CREST EL. 1177.00

PBH-4 30ft.
PBH-7 50ft.
PBH-3 70ft.
PBH-5 50ft.
PBH-2 50ft.
PBH-6 50ft.
PBH-1 30ft.

NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

L-SECTION ALONG DAM AXIS
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

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CORE TRENCH EXTENTS: 32.5 ft
CORE EXTENTS: 15.1 ft
STIPPING EXTENTS: 16.04 ft
FILTER EXTENTS: 6.75 ft
SHELL EXTENTS: 17.5 ft
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

- DRAWING NO.:
- DATE:
- REV. No.:
- CHECKED:
- DESIGNED:
- APPROVED:
- CADED BY:

SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION
DEPARTMENT KHYBER PAKHTUNKHWA

PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

NOTE:
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NOTE:
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SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION
DEPARTMENT KHYBER PAKHTUNKHWA

PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

---

NOTE:
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SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION
DEPARTMENT KHYBER PAKHTUNKHWA

PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7-B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

CORE TRENCH EXTENTS
CORE EXTENTS
FILTER EXTENTS
SHELL EXTENTS.

LEVEL
OFFSET
CORE TRENCH EXTENTS
CORE EXTENTS
FILTER EXTENTS
SHELL EXTENTS.

0 60 120 FEET
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
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SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION
DEPARTMENT KHYBER PAKHTUNKHWA

PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

CORE TRENCH EXTENTS
CORE EXTENTS
FILTER EXTENTS
SHELL EXTENTS

DEAD STORAGE El. 1177.00
MAXIMUM WATER El. 1172.47
NORMAL CONSERVATION El. 1163.00
U/S DAM SLOPE

DEAD STORAGE El. 1135.00
NORMAL CONSERVATION El. 1132.00
DEAD STORAGE El. 1147.00

DEAD STORAGE 1177.00 1172.47 1163.00 1132.00 1147.00
NORMAL CONSERVATION 1177.00 1172.47 1163.00 1132.00 1147.00
DEAD STORAGE 1135.00 1132.00 1147.00

CORE TRENCH
CORE
FILTER
SHELL

OFFSET

LEVEL

EXTENTS
EXTENTS
EXTENTS
EXTENTS

1180
1180
1180
1180
1180

1180
1180
1180
1180
1180

1180
1180
1180
1180
1180

1180
1180
1180
1180
1180

1180
1180
1180
1180
1180

0 60 120 FEET

SHEET 26 OF 40

0 60 120 FEET
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
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NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION
DAM CROSS SECTION
PEZU DAM PROJECT
DEPARTMENT KHYBER PAKHTUNKHAWA
PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7-B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

NOTE:
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SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION
PEZU DAM PROJECT
DEPARTMENT KHYBER PAKHTUNKHWA

PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

0 60 120 FEET
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
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SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION

DEPARTMENT KHYBER PAKHTUNKHWA

PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

CORE TRENCH EXTENTS
CORE EXTENTS
FILTER EXTENTS
SHELL EXTENTS
TYPICAL DAM SECTION

LEGEND

CORE (ZONE 1)
FINE FILTER (ZONE 2)
COARSE FILTER (ZONE 3)
BEDDING (ZONE 4)
SHELL (ZONE 5)
RIPRAP (ZONE 6)

GRAIN SIZE IN MILLIMETERS

Percentage Passing

Boulders Cobble Gravel Coarse Sand Medium Sand Fine Sand Silt Clay

0 10 20 30 40 50 60 70 80 90 100

1000 100 10 1 0.1 0.01 0.001

LEGEND

U/S D/S
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

LEGEND:
△ SURFACE MARKERS
□ STANDPIPE PIEZOMETER

SECTION 1-1
SECTION 5-5
SECTION 2-2
SECTION 6-6
SECTION 3-3
SECTION 7-7
SECTION 4-4
SECTION 8-8
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.

LEGEND:

BERM
SLOPE 1 H : 4\(V\)

EXCAVATION LINE
2' THICK STONE PITCHING

DOWN STREAM

LOWE STONE APRON
STILL BASIN
APPROACH CHANNEL
STONS APRON

6" THICK C.C. TOPPING
12" THICK STONE PITCHING
6" THICK FILTER
COMPACTED BACK FILL
SLOPE 1 H : 4\(V\)

UP STREAM

EL. 1130.00
1.5 : 1
EL 1130 - 1120 (ON SLOPE)
EL. 1150.00
R = 350
R = 580
1.5 : 1

FLOW

SARKANDA PODS
6" THICK FILTER
10.00
SLOPE = 1.5 : 1

DETAIL "A"
NOTE:
1. All dimensions and levels are in feet.

---

PLAN
SCALE=1:60

L-SECTION
SCALE=1:65

DETAIL "G"

DETIAL "A"

DETIAL "B"

DETIAL "C"

DETIAL "D"

DETIAL "E"
NOTE:
1. ALL DIMENSIONS AND LEVELS ARE IN FEET.

CROSS SECTION AT APPROACH SLAB (L = 160')
SECTION A-A (SLAB THICKNESS 1')

CROSS SECTION AT STILLING BASIN (L = 160')
SECTION B-B (SLAB THICKNESS 3')

ANCHOR BARS
#8 ANCHOR BARS IN 2" Ø HOLES 10' DEEP IN ROCK @ 8' SPACING IN BOTH DIRECTIONS (TYP.)
ANCHOR DETAIL (PLAN)

ANCHOR BAR ARRANGEMENT

ANCHOR BARS
#8 ANCHOR BARS IN 2" Ø HOLES
10' DEEP IN ROCK @ 15' SPACING IN BOTH DIRECTIONS (TYP.)

ANCHOR BARS
#8 ANCHOR BARS IN 2" Ø HOLES
10' DEEP IN ROCK @ 8' SPACING IN BOTH DIRECTIONS (TYP.)

NOTE:
1. ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
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NOTE:
1. ALL DIMENSIONS AND LEVELS ARE IN FEET.

SECTION A-A
SCALE: 1:15

SECTION B-B
SCALE: 1:15

D85F > 2 x PERFORATION SIZE
PVC PIPE

TYP. PERFORATION DETAIL
N.T.B

TYPICAL PIPE CONNECTION DETAIL
N.T.B

4"Ø RELIEF HOLES 10'-0" DEEP (typ.)
CHUTE BLOCK

DETAIL - 3
N.T.B

4"Ø RELIEF HOLES 10'-0" DEEP
LEAN CONC.
FILTER

SEEPAGE DRAIN

PVC PIPE

TYPICAL PIPE CONNECTION DETAIL
N.T.B

DETAILED - 3
N.T.B

4"Ø RELIEF HOLES 10'-0" DEEP

NOTE:
1. ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
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SMALL DAM PROJECT
PIEZU DAM
IRRIGATION CONDUIT
LAYOUT PLAN

Pakistan Engineering Services (Pvt.) Ltd.
7-B, Commercial Area, Phase V,

E= 9846753.32
N= 2951064.70

E= 9846939.15
N= 2951094.55

APPROACH EL 1405.56
OUTLET STRUCTURE
INTAKE STRUCTURE
293 CONDUIT WITH 9" THICK ENCASEMENT
CANAL
NULLAH
FLOW

9" THICK ENCASEMENT
2'Ø CONDUIT WITH SLOPE 1 ON 1000
DAM TOE
DAM TOE
NOTE:
1. ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
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SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS
IRRIGATION
DEPARTMENT
KHYBER PAKHTUNKHWA

PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

SECTION 1-1
SECTION 2-2
SECTION 3-3
SECTION 4-4
SECTION 5-5

INTAKE STRUCTURE PLAN
INTAKE STRUCTURE PLAN
INTAKE STRUCTURE PLAN

NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
INTAKE STRUCTURE PLAN
SECTION A-A

SECTION B-B

SECTION C-C

INTAKE STRUCTURE BASE SLAB PLAN

NOTES:
1. ALL DIMENSIONS AND LEVELS ARE IN FEET
NOTE:

ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
### Small Dam Project

**Directorate General Small Dams Irrigation**

**Canal L-Section**

**Pezu Dam**

**Department Khyber Pakhtunkhwa**

**Pakistan Engineering Services (PVT.) LTD.**


---

**NOTES:**

1. All dimensions and levels are in feet.

---

### Drawing Information

- **Drawing No.:** 00
- **Date:** 9.10
- **Rev. No.:** 00

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### Sheet 1 of 2

#### Elevations in Feet

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<th>Datum Level</th>
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### Section Details

- **Head Regulator:** RD. 00+000 to RD. 08+315
- **Outlet:** RD. 06+004 (R)

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### Table of Measurements

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### Section Details

- **H. 1:1**
- **V. 1:5**

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### Scale

![Scale](image)
NOTES:
1. ALL DIMENSIONS AND LEVELS ARE IN FEET.
1. ALL DIMENSIONS ARE IN FEET

NOTES

1. ALL DIMENSIONS ARE IN FEET

SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION
DEPARTMENT KHYBER PAKHTUNKHAWA
PACIFIC ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

TYPICAL CANAL CROSS SECTION

CANAL CROSS SECTIONS DATA

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NOTE
1.- ALL DIMENSIONS AND LEVELS ARE IN FEET

ROAD CULVERT PEZU CANAL

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<th>Discharge (Q ft³)</th>
<th>Velocity (ft/s)</th>
<th>Invert US El. (ft amsl)</th>
<th>Invert DS El. (ft amsl)</th>
<th>FSL US El. (ft amsl)</th>
<th>FSL DS El. (ft amsl)</th>
<th>Pipe Size (ft.)</th>
<th>Road Width &amp; Shoulders (ft.)</th>
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<th>FSL DS El. (ft amsl)</th>
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NOTE
1- ALL DIMENSIONS AND LEVELS ARE IN FEET.
NOTES:
1. ALL DIMENSIONS, LEVELS, GRIDS AND COORDINATES ARE IN FEET.

LAND ACQUISITION
7.47 ACRES

AREA

CHECKED: 
CADED BY: 
DESIGNED: 
APPROVED:

DRAWING NO. 
DATE: 
REV. No.

SMALL DAM PROJECT
DIRECTORATE GENERAL SMALL DAMS IRRIGATION

LAND ACQUISITION PLAN
PEZU DAM PROJECT
DEPARTMENT KHYBER PAKHTUNKHAWA
PAKISTAN ENGINEERING SERVICES (PVT.) LTD.
7 - B, COMMERCIAL AREA, PHASE - V,
D.H.A, LAHORE.

SHEET 2 OF 2

IRRIGATION CANAL
NOTE:
ALL DIMENSIONS AND LEVELS ARE IN FEET.
1. All dimensions and levels are in feet.
FRONT ELEVATION

NOTE:
1. ALL DIMENSIONS AND LEVELS ARE IN FEET.