QUANTITY TABLE				
No.	Pipe Dia. (mm)	Color	New Extention (m)	Remark
1	160		1,250	
2	125		153	
3	90		1,443	
4	63		2,050	
5	40		635	
Total			5,531	

0 300 600 m

World Vision
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N
W E
S

Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Locations Name)

Drawing No.	5.1
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

QUANTITY TABLE				
No.	Pipe Dia. (mm)	Color	New Extention (m)	Remark
1	160		1,250	
2	125		153	
3	90		1,443	
4	63		2,050	
5	40		635	
Total			5,531	

0 300 600 m

World Vision
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Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir — Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Pipe Length)

Drawing No.	5.2
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

QUANTITY TABLE				
No.	Pipe Dia. (mm)	Color	New Extention (m)	Remark
1	160		1,250	
2	125		153	
3	90		1,443	
4	63		2,050	
5	40		635	
Total			5,531	

CONNECTIONS	
TYPE	AMOUNT
A	1
B	5
C	5
D	1
E	1
F	3
G	1
H	2
I	7
J	2
K	1
L	3
M	4
TOTAL	36

0 300 600 m

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Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

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Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir — Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Connections)

Drawing No.	5.3
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

1 A

TABLE OF SPECIFICATIONS

No	Item	Size (mm)	Amount
1	D.I - F.L Tee	150x150x150	1
2	PE Flange	160	3
3	G.L Ring	160	3
4	Rubber Gasket	160	3
5		M16	24

1 D

TABLE OF SPECIFICATIONS

No	Item	Size (mm)	Amount
1	D.I - F.L Tee	150X80X150	1
2	PE Flange	160	2
3	G.L Ring	160	2
4	Rubber Gasket	160	2
5	Rubber Gasket	90	1
6	Flanged Adaptor	90x3"	1
7	G.L Nut and Bolt	M16	20

5 B

TABLE OF SPECIFICATIONS

No	Item	Size (mm)	Amount
1	D.I - F.L Tee	150X50X150	1
2	PE Flange	160	2
3	G.L Ring	160	2
4	Rubber Gasket	160	2
5	Rubber Gasket	63	1
6	Flanged Adaptor	63x2"	1
7	G.L Nut and Bolt	M16	22

1 E

TABLE OF SPECIFICATIONS

No	Item	Size (mm)	Amount
1	D.I - F.L Tee	150x80x150	1
2	D.I F.L Reducer	150x125	1
3	PE Flange	160	2
4	G.L Ring	160	2
5	Flanged Adaptor	125X5"	1
6	Flanged Adaptor	90X3"	1
7	Rubber Gasket	160	2
8	Rubber Gasket	125	1
9	Rubber Gasket	90	1
10	G.L Nut and bolt	M16	28

5 C

TABLE OF SPECIFICATIONS

No	Item	Size (mm)	Amount
1	D.I - F.L Tee	150X50X150	1
2	D.I - F.L Reducer	50x40	1
3	PE Flange	160	2
4	G.L Ring	160	2
5	Rubber Gasket	160	2
6	Rubber Gasket	40	1
7	Flanged Adaptor	40x1.1/2"	1
8	G.L Nut and Bolt	M16	22

3 F

TABLE OF SPECIFICATIONS

No	Item	Size (mm)	Amount
1	D.I - F.L Tee	125x80x125	1
2	PE Flange	125	2
3	G.L Ring	125	2
4	Flanged Adaptor	63x2"	1
5	Rubber Gasket	125	3
6	Rubber Gasket	63	1
7	D.I-F.L Reducer	80x50	1
8	G.L Nud and Bolt	M16	28

World Vision
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Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Connection)

Drawing No.	5.3.1
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

1 G

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	D.I - F.L Tee	125x125x125	1
2	D.I - F.L Tee	125x80x125	1
3	D.I F.L Reducer	125x80	1
4	Flanged Adaptor	125X5"	1
5	Flanged Adaptor	90X3"	2
7	Rubber Gasket	125	4
8	Rubber Gasket	90	2
9	G.L Nut and bolt	M16	44

2 J

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	PE Tee	63x40x63	1
2	PE Reducer Coupling	63x40	1

2 H

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	PE Tee	90x40x90	1

1 K

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	D.I - F.L Tee	90x90x90	1
2	PE Reducer Coupling	90x63	2

7 I

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	PE Tee	90x63x90	1

3 L

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	PE Tee	63x63x63	1

World Vision
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Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Connection)

Drawing No.	5.3.2
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

4 M

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	PE Tee	63x40x63	1

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Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Connection)

Drawing No.	5.3.3
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

QUANTITY TABLE				
No.	Pipe Dia. (mm)	Color	New Extention (m)	Remark
1	160		1,250	
2	125		153	
3	90		1,443	
4	63		2,050	
5	40		635	
Total			5,531	

0 300 600 m

World Vision
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Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir — Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Valves Locations)

Drawing No.	5.4
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

1 1

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	D.I Valve	150	3
2	Rubber Gasket	160	6
3	G.L Nut and bolt	M16	48

1 2

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	D.I Valve	150	2
2	D.I Valve	80	1
3	Rubber Gasket	160	4
4	Rubber Gasket	90	2
5	G.L Nut and bolt	M16	44

1 3

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	D.I Valve	150	1
2	D.I Valve	125	1
3	D.I Valve	80	1
4	Rubber Gasket	150	2
5	Rubber Gasket	125	2
6	Rubber Gasket	90	2
7	G.L Nut and bolt	M16	44

1 4

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	D.I Valve	125	3
2	D.I Valve	80	2
3	Rubber Gasket	125	3
4	Rubber Gasket	90	2
5	G.L Nut and bolt	M16	42

1 5

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	D.I Valve	80	2
2	D.I Valve	50	1
3	Rubber Gasket	90	4
4	Rubber Gasket	63	2
5	G.L Nut and bolt	M16	32

1 6

TABLE OF SPECIFICATIONS			
No	Item	Size (mm)	Amount
1	D.I Valve	80	1
2	D.I Valve	50	1
3	Rubber Gasket	90	2
4	Rubber Gasket	63	2
5	G.L Nut and bolt	M16	20

World Vision
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Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Valves)

Drawing No.	5.4.1
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

QUANTITY TABLE				
No.	Pipe Dia. (mm)	Color	New Extention (m)	Remark
1	160		1,250	
2	125		153	
3	90		1,443	
4	63		2,050	
5	40		635	
Total			5,531	

0 300 600 m

World Vision
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W E
S

Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

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DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir — Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Valves Control Blocks)

Drawing No.	5.5
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

Valve Shaft Small (C)

Specipication of reinforcement of the plan of manhole in Herat City

Site: on the streets

Plan View

Longitudinal Section

Transversal Section

All Dimension In (cm)

Section A-A

Section B-B

World Vision
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Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Valves Chambers Technical Details)

Drawing No.	6.2
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	

QUANTITY TABLE				
No.	Pipe Dia. (mm)	Color	New Extention (m)	Remark
1	160		1,250	
2	125		153	
3	90		1,443	
4	63		2,050	
5	40		635	
Total			**5,531**	

0 300 600 m

N
W E
S

Legend

(PE 63 mm) 45 m Existing Water Supply System. (Material, Outside Diameter) lenght

(PE 315 mm) Material, Outside Diam./Pipe Section

PE Pipes

PVC Pipes

GIP Pipes

ACP Pipes

DCI Pipes

Well Field Deep Wells

Herat City Deep Wells

D1 No. of City District

District Border Line

River

1,000 m3 Elevated Water Reservoir — Water Reservoirs

Urban Water Supply & Sewerage State Owned Corporation (UWASS.soc)
Herat Water Supply Department(HWS)

Title: Herat Water Network
New Extension and Rehabilitation
(Ganj Project)
(Valves Chambers Locations)

Drawing No.	6.1
Scale:	
Date:	July 2022
Design	HWS Technical Team
Drawn	
Checked	
Approved	