سی ڈی اے کی طرف سے تمام گھروں میں روف ٹاپ رین ہارویسٹنگ لازمی قرار

CDA's Building By-laws under Clause No. 117 & 118 (Part-II) read with 4.1.2 (Misc/Part-II)



گھر کی چھت سے بارش کا پانی ٹینکی یا ڈرم میں جمع کریں۔

گھریلو ضرورت اور پودوں کی آبپاشی کے لیے استعمال کریں

اور بارش کے پانی کو زمین میں پہنچا کر زیرِ زمین پانی کی سطح بڑھا سکتے ہیں

Climate-Smart, Nature-based Solutions for Wastewater Management implementing by FDO under the CF-WRAP Initiative

Oxford Policy Management · MAKES · CDA Capital Development Authority · Islamabad Water · PCRWR · FDO · WHH Welt Hunger Hilfe · UK International Development

Estimate/ BoQ for Recharge Rainwater Harvesting

RESIDENTIAL BUILDING

1. ROOFTOP RWH HOUSEHOLD (5 Marla) Option A PVC Tank System

Item	Unit	Qty	Rate (Rs.)	Amount (M)
PVC tanks (2 × 2,000 gal)	No	2	0.030	0.060
4" PVC piping (25 m)	Meter	25	1200	0.030
Fittings & supports	LS	1	0.015	0.015
First flush diverter	LS	1	0.020	0.020
Sediment trapper (≈200 µm)	No	1	0.040	0.040
Screen filter (≈100 µm)	No	0	0.020	0.020
Installation & mobilization	LS	1	0.075	0.075
Subtotal (5 Marla, PVC):				**0.260 M**

Option B RCC / Masonry Tank

Item	Unit	Qty	Rate (Rs.)	Amount (M)
RCC tank (4,000 L)	No	1	0.125	0.125
Piping & filtration (same spec)	LS	1	0.125	0.125
Subtotal (5 Marla, RCC):				**0.250 M**

2. ROOFTOP RWH HOUSEHOLD (10 Marla) for PVC

Item	Unit	Qty	Rate (Rs.)	Amount (M)
PVC tanks (2 × 4000 gal)	No	02	0.50	0.100
4" piping (40 m)	Meter	40	1200	0.048
Fittings	LS	1	0.020	0.020
Sediment trapper	No	1	0.070	0.070
Screen filter	No	1	0.040	0.040
Mobilization/installation	LS	1	0.100	0.100
Subtotal (10 Marla):				**0.378 M**

3. ROOFTOP RWH HOUSEHOLD (20 Marla) For PVC

Item	Unit	Qty	Rate (Rs.)	Amount (M)
PVC tanks (3 × 4000 gal)	No	03	0.05	0.150
4" piping (60 m)	Meter	60	1200	0.072
Filtration (sediment + cartridge/mesh)	LS	1	0.120	0.120
Large first-flush system	LS	1	0.075	0.075
Civil works & installation	LS	1	0.150	0.150
Subtotal (20 Marla):				**0.567 M**

Takhleeqkar Graphics Solution
Contact: 0333-8184701

Estimate/ BoQ for Recharge Rainwater Harvesting

FARMHOUSE RWH SYSTEM (2 KANAL)

Item	Unit	Qty	Rate (Rs.)	Amount (M)
Excavation for pond (20×20×6 ft ≈ 68 m³)	m³	68	897	0.061
Embankment formation & compaction	m³	30	1200	0.036
Geo-membrane 1.5 mm HDPE (≈55 m²)	m²	55	2200	0.121
Geotextile protection	m²	55	55	0.033
4" PVC pipeline (100 m)	m	100	1200	0.120
Sediment trapper (300 µm)	LS	1	0.070	0.070
Screen filter + first flush	LS	1	0.090	0.090
Diversion channel (30 m)	m	30	2000	0.060
Inlet/outlet civil structures	LS	1	0.100	0.100
Mobilization	LS	1	0.100	0.060
Subtotal (Farmhouse 2 Kanal):				**0.751 M**

MISCELLANEOUS / UNFORESEEN

- **Contingency & technical supervision: 5% of subtotal (Applied to all)**

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For more information and Technical Assistance:
Engr. Abdul Ghaffar - 0300 3701292

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PUBLIC / COMMERCIAL BUILDING

PVC System (standard)

Item	Unit	Qty	Rate (Rs.)	Amount (M)
PVC tanks (4 × 4,00)	No	04	0.050	0.200
4" piping (100 m)	Meter	100	1200	0.120
Fittings & structural supports	LS	1	0.040	0.040
Multi-stage filtration (sand + carbon + mesh)	LS	1	0.150	0.150
Storm water diversion system	LS	1	0.100	0.100
Civil works & mobilization	LS	1	0.200	0.200
Subtotal (Commercial PVC):				**0.810 M**

RCC Option (if selected)

Item	Unit	Qty	Rate (Rs.)	Amount (M)
Add RCC tank option in lieu of PVC	No	1	0.500	0.500
Subtotal (Commercial RCC):				**1.310 M**

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