

BILL OF QUANTITIES (BOQ)

(B) For Item Rate Tender — FY 2026-27

Name of Work: Comprehensive Annual Rate Contract For Arvalli Panchayat
Irrigation Division, Modasa.

Item No.	Description of Item	Qty	Unit	Unit Rate (₹)
1	Dismantling the existing stone masonry including sorting out and stacking the useful material and removing the debris and making good the damages etc. complete as directed. In Cement Mortar	1	Cum	750.90
2	Dismantling the existing brick masonry including sorting out and stacking the useful material and removing the debris and making good the damages etc. complete as directed. In Cement Mortar	1	Cum	750.90
3	Dismantling the existing foundation concrete including sorting out the dismantled stuff and stacking the useful material, removing the debris and making good the damages etc. complete as and where directed. Cement Concrete	1	Cum	1155.20
4	Dismantling the R.C.C. work and disposing off the stuff including stacking of the useful materials etc. complete as directed. Light Reinforcement (Main bar upto 16 mm. dia.)	1	Cum	1732.80
5	Dismantling the R.C.C. work and disposing off the stuff including stacking of the useful materials etc. complete as directed. Light Reinforcement (Main bar above 16 mm. dia.)	1	Rmt	2021.60
6	Providing and laying burnt brick lining in CM 1:3 laying to correct slope after necessary trimming the earthwork, filling the joints with mortar curing etc.complete. Including 10 mm thick bedding with CM 1:3 below bricks.23.0 cm thick	1	sqm	1170.00

7	Clearing the canal land width including removing the trees up to 0.50 m. girth, bushes shrubs etc. including depositing the materials outside the canal land width as directed etc. complete.	1	Hact.	2888.00
8	Cutting down the trees of different girths, (at 45 cm above G.L.) including removing & grubbing roots below ground level within the canal boundary including stacking the wood outside the canal boundary as directed etc. complete.Girth above 0.50 & upto 1.00 m	1	Nos.	722.00
9	Cutting down the trees of different girths, (at 45 cm above G.L.) including removing & grubbing roots below ground level within the canal boundary including stacking the wood outside the canal boundary as directed etc. complete.Girth above 1.00 & upto 1.50 m	1	Nos.	2090.90
10	Cutting down the trees of different girths, (at 45 cm above G.L.) including removing & grubbing roots below ground level within the canal boundary including stacking the wood outside the canal boundary as directed etc. complete.Girth above 1.50 & upto 2.000 m	1	Nos.	4170.30
11	Cutting down the trees of different girths, (at 45 cm above G.L.) including removing & grubbing roots below ground level within the canal boundary including stacking the wood outside the canal boundary as directed etc. complete.Girth above 2.00 & upto 3.000 m	1	Nos.	8248.10
12	Earth work in embankment using selected soil, soft & hard murrum excavated from approved borrow area / village tanks etc. Including conveying, spreading in uniform layers, breaking clods and dressing to the designed canal section etc. with lead upto 50 m and all lifts. (By MANUALLY For MAINTENANCE &	1	Cum	231.00

	REPAIRING WORKS) Lift 0 to 1.50 m depth. Up to 50 cusec.			
13	Earth work in embankment using selected soil, soft & hard murrum excavated from approved borrow area / village tanks etc. Including conveying, spreading in uniform layers, breaking clods and dressing to the designed canal section etc. with lead upto 500m and all lifts (for canals having capacity up to 300 Cusec) (By Machinery)	1	Cum	110.80
14	Providing and laying sand filter layer of specified gradation in uniform layers of specified thickness in horizontal, inclined and in canal banks as per drawing including watering upto saturation and compaction as directed.	1	Cum	853.90
15	Providing temporary motorable service road during construction including dewatering & maintaining the same etc. complete.	1	Km.	26271.00
16	Providing and fixing in position 1.80 m high above finished ground level sign boards of standard size 0.45 m x 0.30m with M.S. angle 40mm x 40mm x 6mm with 3mm thick iron plate in 1:5:10 proportion concrete block size 40cm x 40cm x 75 cm including radium paint on both side etc. complete.	1	No.	1365.00
17	Compaction of selected soil/hard murrum/soft murrum in even thickness of 15 to 20 cms including watering, temping with suitable hand rammer etc. complete as directed.	1	Cum	57.80
18	Clearing the silt from the canal/drain bed by a digging the same to the required bed level and gradient including depositing the excavated earth regularly in spoil bank for utilizing the same preparing the banks after breaking clods as and where directed for all leads and lifts.For Canals Below 20 Cusec. & 0 to 1.5 m lift.	1	Cum	173.30

19	Clearing the silt from the canal/drain bed by a digging the same to the required bed level and gradient including depositing the excavated earth regularly in spoil bank for utilizing the same preparing the banks after breaking clods as and where directed for all leads and lifts.For Every additional lift of 1.5 m or part there of. For Canals Below 20 Cusec.	1	Cum	14.40
20	Clearing the silt from the canal/drain bed by a digging the same to the required bed level and gradient including depositing the excavated earth regularly in spoil bank for utilizing the same preparing the banks after breaking clods as and where directed for all leads and lifts.For Canals Between 21 to 250 Cusec. & 0 to 1.5 m lift.	1	Cum	202.20
21	Clearing the silt from the canal/drain bed by a digging the same to the required bed level and gradient including depositing the excavated earth regularly in spoil bank for utilizing the same preparing the banks after breaking clods as and where directed for all leads and lifts.For Every additional lift of 1.5 m or part there of. For Canals Between 21 to 250 Cusec.	1	Cum	28.90
22	Removing and destroying the thick "Ghabajaria",etc from the Canal / Drain bed under the water pool ind. cutting carrying it away as directed and burning the same etc. complete.Below 20 Cusec.	1	Km.	42306.00
23	Removing and destroying the thick "Ghabajaria",etc from the Canal / Drain bed under the water pool ind. cutting carrying it away as directed and burning the same etc. complete.Between 21 to 250 Cusec.	1	Km.	54795
24	Clearing the silt/debris from the pipe culvert/syphon/ syphon well. Underground pipe drain/box drain for Drain/Canal by digging	1	meter	548.70

	the same including depositing the excavated earth/debris etc. for all leads and lift. For pipe culvert/ Syphon. (i) Upto 900 mm dia. Pipe.			
25	Excavation in all sorts of soil .By machinery including preparing etc.comp. (where qty can not be measured).Hydraulic Excavator 200 (0.9 CM)	1	Hour	2559.00
26	Excavation in all sorts of soil .By machinery including preparing etc.comp. (where qty can not be measured).JCB Hd Exc. Ex-j 5205 (0.9 CM) - Chain	1	Hour	2693.00
27	Excavation in all sorts of soil .By machinery including preparing etc.comp. (where qty can not be measured).Hyundai Hydraulic Excavator R 210 LC 7V (0.9 CM) Chain	1	Hour	2677.00
28	Excavation in all sorts of soil .By machinery including preparing etc.comp. (where qty can not be measured).Hyundai Long Reach Hydraulic Excavator R210 LC7LR (0.52 CM) Chain	1	Hour	2901.00
29	Excavation in all sorts of soil .By machinery including preparing etc.comp. (where qty can not be measured).Tata Hitachi Hyd, Excavator Ex -70 (0.3 CM) Chain	1	Hour	1416.00
30	Excavation in all sorts of soil .By machinery including preparing etc.comp. (where qty can not be measured).J.C.B. - 2D X (0.18 CM) Wheel	1	Hour	1123.00
31	Excavation in all sorts of soil .By machinery including preparing etc.comp. (where qty can not be measured).Tractor with Trailer	1	Hour	661.00
32	Providing and laying empty cement bags with good selected earth including stitching and laying as and where required. (Polywoven bag of 50 kg Capacity)	1	No.	25.90
33	Providing and laying jute bags filled with good selected earth including stitching and laying as	1	No.	60.30

	and where required. (Jute bag of 100 kg Capacity)			
34	Providing and laying empty cement bag filled with cement and sand in proportion 1:20 incl. stitching and laying as and where directed.	1	No.	37.30
35	Clearing of Canals for jungle cutting Removing and destroying the thick "Ghabajaria" , " Panfuti " etc. from the Canal/Drain bed under the water pool alongwith rolls incl. cutting carrying it away as directed and burning the same etc. complete. (By Manually)Below 20 Cusec.	1	Km.	60149.00
36	Clearing the canal Banks outer and inner Slopes by Jungle Cutting ,removing Vegetation, Ghabajaria,Trees,etc. along with burning it's and carrying away as and where required and as directed etc. completed by machineries.	1	sqm	10.30
37	Trimming of the canal section manually for preparing subgrade for laying cement concrete lining in all sorts of soil and murrum including watering and compacting bed etc. complete.	1	sqm	72.80
38	Providing coarse sand layer in bed and side slopes including excavation, light compaction, tar paper etc. complete.	1	Cum	853.90
39	Excavation for foundation trenches in all sorts of soil sand clay, hard clay, soft murrum including shoring, strutting and depositing the excavated stuff, refilling the remaining excavated trenches upto G.L. as and where directed within a lead of 50 m. etc. complete as directed. (For Special situation up to 10 cum)Upto 1.50 m depth	1	Cum	311.90
40	Excavation for foundation trenches in all sorts of soil sand clay, hard clay, soft murrum including shoring, strutting and depositing the excavated stuff, refilling the remaining excavated trenches upto G.L. as and where	1	Cum	323.50

	directed within a lead of 50 m. etc. complete as directed. (For Special situation up to 10 cum)1.50 m to 3.00 m depth			
41	Excavation for foundation in all sorts of soil including yellow sandy gravelly soils ,soft & hard murrum etc. in dry condition including depositing the excavated stuff in uniform layers in banks or as and where directed etc. complete for lead up to 500m and all lift. (BY MACHINERY)Excluding dewatering.	1	Cum	102.40
42	Excavation for foundation in soft rock including depositing the excavated material as directed within a lead of 100 m and stacking the material nearly in uniform stacks etc. complete. (Manually)Upto 1.50 m depth	1	Cum	808.60
43	Excavation for foundation in soft rock including depositing the excavated material as directed within a lead of 100 m and stacking the material nearly in uniform stacks etc. complete. (Manually)1.50 m to 3.00 m depth	1	Cum	850.80
44	Excavation for foundation in Soft Rock including depositing the excavated stuff as and where directed etc. complete for lead upto 500m and all lift. (Machinery)Excluding dewatering.	1	Cum	218.80
45	Excavation of foundation in Hard Rock upto 3 m depth including blasting and chiselling in necessary sorting out and stacking separately the usable rubble, depositing the excavated stuff as and where directed, back filling the trenches with suitable excavated stuff etc. complete for lead of 50 m and all lifts. (Manually)	1	Cum	801.90
46	Excavation for foundation in Hard Rock including blasting and chiseling if necessary sorting out and stacking separately the usable rubble, depositing the excavated stuff as and	1	Cum	359.50

	directed including backfilling trenches with suitable excavated stuff etc. complete for lead upto 500 m. and all lifts. (Machinery)Excluding dewatering.			
47	Dewatering during excavation of canals, drains, foundation trenches etc. by using pumps of suitable capacity either diesel or electric driven including cost of labour, pipes etc. for delivery distance beyond 100 m. (By Machinery)	1	Hp/hr	53.80
48	Backfilling the foundation trenches around the structures etc with selected excavated stuff including watering, ramming, compacting etc. complete. (By Machinery)	1	Cum	36.90
49	Backfilling with the selected earth, from outside borrow pits including spreading in uniform layers of specified thickness, dressing, breaking clods, removing roots, watering at optimum moisture content , rolling with suitable type of roller for all lifts and leads upto 1 km . etc. complete. (By Manually)	1	Cum	467.10
50	Earthwork/Back filling with selected earth including watering ramming,Compaction with pneumatic temping with all lead and all lift etc complete	1	Cum	144.50
51	Providing & Laying in position "NOMINAL MIX" cement concrete using cement, sand and crushed aggregate by mass and machine mix for C.C./R.C.C work incl. necessary formworks centering, scaffolding, compaction by vibrator, curing as directed with all lead & lift etc complete Without Dewatering and excluding cost of steel reinforcement. C. C. Nominal Mix, M-10 and MSA-40 mm	1	Cum	3346.00
52	Providing & Laying in position "NOMINAL MIX" cement concrete using cement, sand and crushed aggregate by mass and machine mix for C.C./R.C.C work incl. necessary formworks	1	Cum	3047.00

	centering, scaffolding, compaction by vibrator, curing as directed with all lead & lift etc complete Without Dewatering and excluding cost of steel reinforcement. C. C. Nominal Mix, M-10 and MSA-80 mm			
53	Providing & Laying in position "NOMINAL MIX" cement concrete using cement, sand and crushed aggregate by mass and machine mix for C.C./R.C.C work incl. necessary formworks centering, scaffolding, compaction by vibrator, curing as directed with all lead & lift etc complete Without Dewatering and excluding cost of steel reinforcement. C. C. Nominal Mix, M-15 and MSA-20 mm	1	Cum	3935.00
54	Providing & Laying in position "NOMINAL MIX" cement concrete using cement, sand and crushed aggregate by mass and machine mix for C.C./R.C.C work incl. necessary formworks centering, scaffolding, compaction by vibrator, curing as directed with all lead & lift etc complete Without Dewatering and excluding cost of steel reinforcement. C. C. Nominal Mix, M-15 and MSA-40 mm	1	Cum	3754.00
55	Providing & Laying in position "NOMINAL MIX" cement concrete using cement, sand and crushed aggregate by mass and machine mix for C.C./R.C.C work incl. necessary formworks centering, scaffolding, compaction by vibrator, curing as directed with all lead & lift etc complete Without Dewatering and excluding cost of steel reinforcement. C. C. Nominal Mix, M-15 and MSA-80 mm	1	Cum	3243.00
56	Providing & Laying in position "NOMINAL MIX" cement concrete using cement, sand and crushed aggregate by mass and machine mix for C.C./R.C.C work incl. necessary formworks centering, scaffolding, compaction by vibrator,	1	Cum	4296.00

	curing as directed with all lead & lift etc complete Without Dewatering and excluding cost of steel reinforcement. C. C. Nominal Mix, M-20 and MSA-20 mm			
57	Providing & Laying in position "NOMINAL MIX" cement concrete using cement, sand and crushed aggregate by mass and machine mix for C.C./R.C.C work incl. necessary formworks centering, scaffolding, compaction by vibrator, curing as directed with all lead & lift etc complete Without Dewatering and excluding cost of steel reinforcement. C. C. Nominal Mix, M-20 and MSA-40 mm	1	Cum	4054.50
58	Providing and fixing in position (different diameter) I.S.,NP-3 class reinforced pipe with caulking the joints with cement mortar 1:1 proportion,using jute string soaked in cement slurry, finishing joints and laying pipes to the designed grade and levels, curing etc. complete for all leads and lifts. NP-3 class 450 mm dia pipe.	1	Cum	1215.50
59	Providing and fixing in position (different diameter) I.S.,NP-3 class reinforced pipe with caulking the joints with cement mortar 1:1 proportion,using jute string soaked in cement slurry, finishing joints and laying pipes to the designed grade and levels, curing etc. complete for all leads and lifts.NP-3 class 600 mm dia pipe.	1	Cum	2039.60
60	Providing and fixing in position (different diameter) I.S.,NP-3 class reinforced pipe with caulking the joints with cement mortar 1:1 proportion,using jute string soaked in cement slurry, finishing joints and laying pipes to the designed grade and levels, curing etc. complete for all leads and lifts.NP-3 class 900 mm dia pipe.	1	Cum	2857.70

61	Providing and laying uncoursed rubble masonry in ordinary portland cement mortar 1:5 proportion in foundation including curing etc. complete for all leads and lifts.	1	Cum	3555.50
62	Providing and laying uncoursed rubble masonry in ordinary portland cement mortar 1:5 proportion in super structure including scaffolding, racking out joints, curing etc. complete for all leads and lifts.	1	Cum	3999.40
63	Providing and laying burnt brick masonry in foundation ordinary portland cement mortar 1:5 proportion including, curing etc. complete for all leads and lifts. (Conventional Bricks)	1	Cum	5040.10
64	Providing and laying burnt brick masonry for superstructure with ordinary portland cement mortar 1:5 proportion including providing scaffolding racking out joints curing etc. complete for all leads and lifts. (Conventional Bricks)	1	Cum	5371.100
65	Providing 230 mm thick pucca rubble pitching in C.M. 1:5 proportion over 10mm bedding of same mortar with the surface pointed with cement mortar of 1:3 proportion etc. complete for all leads and lifts.	1	Sqm	767.80
66	Providing and laying dry rubble pitching of various thickness to required grade including trimming of earth work, hand packing the interstices with spauls, filling earth in interstices panelling complete for all leads and lifts. 230 MM THICK	1	Sqm	339.80
67	Providing and fixing marble plate of 2.54 cm thick including engraving and filling led for letters as directed.	1	100 sqcm	108.40
68	Providing and fixing 5mm thick enamelled gauge plate including necessary gradation in white and blue etc. complete. 25 cm wide	1	Rmt	528.80

69	Providing and Placing in position mechanically woven double twisted , galvanized without PVC coating "GABIONS" made of mesh size 10 X 12 cm with Mesh wire diameter 3.0 mm, including proving and lying stones with least dimention of 200mm and tying with lacing wire of diameter 2.2mm and arranging the same as instructed or as per drawing at the locations/ structures etc including dressing the slope , minor earth fill with all lead and lift etc compleate.1.00mt X 1.00mt X 1.00mt (stone weight between 10kg to 40kg)	1	Nos.	2822.00
70	Providing and Placing in position mechanically woven double twisted , galvanized without PVC coating "GABIONS" made of mesh size 10 X 12 cm with Mesh wire diameter 3.0 mm, including proving and lying stones with least dimention of 200mm and tying with lacing wire of diameter 2.2mm and arranging the same as instructed or as per drawing at the locations/ structures etc including dressing the slope , minor earth fill with all lead and lift etc compleate. 1.00 m x 1.00 m x 0.60 m size (stone weight between 10kg to 40kg)	1	Nos.	1849.00
71	Quarrying transporting suitable filter materials specified gradation from approved borrow pit area/stockpiles, spreading the materials in specified thickness dressing removing oversize materials roots etc. watering up to saturation rolling with suitable type of roller for all lifts etc.complete.Sand	1	Cum	885.1
72	Quarrying transporting suitable filter materials specified gradation from approved borrow pit area/stockpiles, spreading the materials in specified thickness dressing removing oversize materials roots etc. watering up to saturation	1	Cum	826.60

	rolling with suitable type of roller for all lifts etc.complete.Gravel			
73	Quarrying transporting suitable filter materials specified gradation from approved borrow pit area/stockpiles, spreading the materials in specified thickness dressing removing oversize materials roots etc. watering up to saturation rolling with suitable type of roller for all lifts etc.complete.Sand and Gravel Mixture (50:50)	1	Cum	855.90
74	Quarrying transporting suitable filter materials specified gradation from approved borrow pit area/stockpiles, spreading the materials in specified thickness dressing removing oversize materials roots etc. watering up to saturation rolling with suitable type of roller for all lifts etc.complete.Quarry spauls	1	Cum	709.60
75	Quarrying and transporting suitable rubbles stone spauls of specified size from approved quarries and or stockpile and laying hand placed riprap of specified thickness as per approved drawing using header stones (rough through stones) in a grade of 1.5 mx1.5m after trimming and / or dressing the slopes including hand packing the stones using the light hammer driven stone wedges into gaps around stone into for all lifts etc. comp.Quarrying and transporting suitable rubbles stone spauls of specified size from approved quarries and or stockpile and laying hand placed riprap of specified thickness as per approved drawing using header stones (rough through stones) in a grade of 1.5 mx1.5m after trimming and / or dressing the slopes including hand packing the stones using the light hammer driven stone wedges into gaps around stone into for all lifts etc. comp.	1	sqm	568.20

76	Providing & Placing in position reinforcement bars including cutting, bending, welding joints where necessary, hooking etc. complete as per drawing for all lead and lifts.TMT / CRS (FE 500 D)	1	MT	82019.00
77	Providing and deploying Unskilled Labor for general maintenance, clearing, earthworks, and shifting assistance on a day basis of 8-hour duty per shift, compliant with statutory minimum wage regulations as and where directed	1	Day	747.29
	Total=			-