

Abstract

Name of Work :- Repairs to leakages through KAV with isolating sluice valve on rising main & delivery pipe and providing & fitting of new air breather valve at Khadakpurna LIS stage - 4 Dist Buldhana during year 2026-27.

Providing & fitting of new air breather valve at Khadakpurna LIS stage						Qty.		Rate Rs.	Amt. Rs.
S.N	Description of items/work								
1	Providing & fitting of spares for repairs to leakages through KAV with isolating sluice valve of size Ø 150 mm PN-1.6 located rising main pipe. Total Qty. 4 no.RA -1					1 ✓	No	105000 ✓	105000 ✓
	Low Pressure Float	14 ✓	no	250 mm ✓					
	High Pressure Float	14 ✓	no	150 mm ✓					
	Low Pressure Seat	14 ✓	no	Rubber ✓					
	High Pressure Seat	14 ✓	no	Rubber ✓					
2	Providing Flange gasket for flange jointing 2 no each valve of Ø 150 mm KAV & isolating Sluice valve .Total for 14 no. of KAV & ISV.RA-2					28 ✓	No	205 ✓	5740 ✓
3	Labour charges for removing & refitting of Air valve/Kinetic Air Valve/ Tamper proof air valve/ surge suppression air valve having P.N -1.0 & 1.6 rating as per manufacturers instruction manual with all tools,tackles,lifting equipments Size 150 mm dia.RA-2					14 ✓	no	2130 ✓	29820 ✓
4	Labour charges for replacement of large orifice/small orifice float,cover plate,seat ring of Air valve/Kinetic Air Valve/Tamper proof air valve/surge suppression air valve having P.N -1.0 & 1.6 rating.Size 150 mm dia.RA-2					14 ✓	no	884 ✓	12376 ✓
5	Labour charges for removing & refitting of isolating sluice valve for gasket replacing having P.N -1.0 & 1.6 rating as per manufacturers instruction manual with all tools,tackles,lifting equipments etc.including lifting charge.size 150 mm dia. RA-2					14 ✓	no	2130 ✓	29820 ✓
6	Transportation								
	Distance from Nearest District Jalna to Dagadwadi LIS Tah . Deulgaon Raja Dist Buldhana & back = 130 Km . Per trip. 260 km					260 ✓	km	53 ✓	13780 ✓
7	Machinery required for welding of nut & bolts of top cover plate of air valve , air valve pipe welding, cutting of nuts & bolts of air valve on rising main and removing & refitting of safety grill over KAV								
	Rent for welding set with Generator					3 ✓	day	3130 ✓	9390 ✓
	Pipe cutter with operator					3 ✓	day	1681 ✓	5043 ✓
	Rent for chain pully block with tripod for lifting & handling & refitting ,welding of MS grill cover					3 ✓	day	614 ✓	1842 ✓
	Helper for handling M.S grill cover					3 ✓	day	622 ✓	1866 ✓
	Fitter for handling M.S grill cover					3 ✓	day	641 ✓	1923 ✓
	welder					3 ✓	day	668 ✓	2004 ✓
	Gland 12 mm					7 ✓	kg	494 ✓	3458 ✓
	Nuts & Bolts					20 ✓	kg	106 ✓	2120 ✓
	8	Providing and applying anticorrosive Coal Tar black IS 290-1961 paint for upstream side in two coats including surface preparation, chipping the welding, cleaning spatters, dust etc. Complete as directed.					26.14 ✓	Sqm	352.05 ✓
KAV		14	no						
Isolating Sluice Valve		14	no						

9	Providing and supplying Air Breather Valve confirming to IS std				
	Air Breather Valve Assembly (Pressure-vacume relief valve)				
	Size of ABV - 150 mm PN-1.6				
	Type - Double disc lift type				
	Service - Raw water	4	no	27485	109940
	Operation - Self operated				
	End Connection - Flanged				
	Material - Ductile Iron				
	Fastener - Stainless Steel				
	Location - Delivery M S Pipe				
10	Providing and supplying Air Breather Valve confirming to IS std				
	Air Breather Valve Assembly (Pressure-vacume relief valve)				
	Size of ABV - 200 mm PN-1.6				
	Type - Double disc lift type				
	Service - Raw water	2	no	42853	85706
	Operation - Self operated				
	End Connection - Flanged				
	Material - Ductile Iron				
	Fastener - Stainless Steel				
	Location - Rising Main MS Pipe				
11	Labour charges for removing old & refitting of new Air valve/Kinetic Air Valve/ Tamper proof air valve/ surge suppression air valve/Air Breather valve having P.N -1.0 & 1.6 rating as per manufacturers instruction manual with all tools,tackles,lifting equipments Ø150 mm ABV	4	no	2130	8520
12	Labour charges for removing old & refitting of new Air valve/Kinetic Air Valve/ Tamper proof air valve/ surge suppression air valve/Air Breather valve having P.N -1.0 & 1.6 rating as per manufacturers instruction manual with all tools,tackles,lifting equipments Ø 200 mm ABV	2	no	2130	4260
13	Providing supplying & Fitting of new gear box assembly to butterfly valve				
	Size of BFV Ø 700 mm PN-1.6				
	Output Torque capacity -15000 Nm				
	Input Torque Capacity - 105 Nm				
	Ratio - 449				
	Gear Box Worm gear type				
	Suitable for actuator operation				
	Grease lubricants type				
14	Labour charges for removing and refitting of butterfly valve having P.N-1.0 & 1.6 rating from pipe line for repairs.This include replacing of gasket, all tools & tackles,welding,machinery.Ø 700 mm EOBV	4	no	12245	48980
15	Labour Charges for work of repairing of butterfly valve as per manufacturers instruction manual with all tools, tackles etc. This job includes labours required for replacing worn out/damaged spares like end cover, cottor pin, shaft bearing,drive stub shaft seal,thrust face, o ring ,greasing ,overhauling and cleaning of drive end & non drive end housing,removing gear box etc. with satisfactory test & trial etc. P.N-1.0 & 1.6 (Excluding spare, Lifting charges extra as applicable) (For valve above 500 mm, If valve to be repaired in workshop transportation charges will be paid extra.Ø 700 mm EOBV	4	no	12010	48040

16	Providing rubber Gasket EPDM for flange joint. ϕ 700 mm EOBFV	8 ✓	no	1534 ✓	12272 ✓
17	Loading in vehicle and unloading & in workshop repairing ϕ 700 mm EOBFV	12 ✓	hrs	1879 ✓	22548 ✓
	Crane	4 ✓	no	622 ✓	2488 ✓
	Helper	2	no/day		
	Truck hire charges for 100 km for taking to Workshop for repairs & back to site after repairs	2 ✓	days	3019 ✓	6038 ✓
				Total	753952.59 ✓
				Adding GST @ 18 %	135711.47 ✓
				Say Total	889664 ✓

(Rs.Eight Lakh Eighty Nine Thousand Six Hundred Sixty Four Only

Est Prepared by


D M Murkute
Sect Engineer

Est checked by


S V Nirkhe
Deputy Engineer

Gate Mfg. & Erection Sub Div No. 1
Akola

Estimate No. 49
Est. No. DIA/206-27 Dt. 30/07/2026
Sanctioned for Rs. 8,89,664/-
Rupees Eight Lakh eighty nine
thousand six hundred sixty four only.