

Schedule of Quantity

Name of Work: Repairing and Overhauling of Iron Removal Filtration Plant at SB, Hatikanda during 2025-26

SL. No.	Description	Quantity	Unit	Rate	Amount	DSR No.
	Schedule Items					
1	CEMENT CONCRETE (CAST IN SITU)					4
1.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					4.1
1.1.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	5.00	cum	7878.50	₹ 39,393.00	4.1.3
2	Dismantling and Demolishing					15
2.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in charge.					15.2
2.1.1	Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	5.00	cum	1503.60	₹ 7,518.00	15.2.2
2.2	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	40.00	cum	263.95	₹ 10,558.00	15.6
	Total				₹ 57,469.00	
	Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ 0.973 * 57469 = 55917				₹ 55,917.00	
	Cost Index @19% [119/100] at Kalyani vide office memo No 34(1)/SDG (Kol)/Cost Index/2025/1316) dated 1/4/2025				₹ 10,624.00	
	Total				₹ 66,541.00	
	Non-Schedule Items					
3	Unloading of exhausted filter media from the Iron Removal Filter vessel with proper care etc all complete as per direction of engineer in charge.	1.00	job	2291.00	₹ 2,291.00	MR
4	Through cleaning and scrapping inside of the existing Iron Removal Filter vessel properly i/c painting of anticorrosive black bituminous paint etc all complete as per direction of engineer in charge.	1.00	job	4253.00	₹ 4,253.00	MR
5	Checking of the existing Bed support plate and replacement of entire strainer of Iron removal filter plant and all complete as per direction of engineer in charge.	1.00	job	8403.00	₹ 8,403.00	MR
6	Supplying and loading of required quantity of new live filter media into the Iron Removal Filtration Plant vessel etc, complete as per direction of Engineer-In-Charge.	1.00	job	38292.00	₹ 38,292.00	MR
7	Through cleaning, scraping out surface of the existing Iron removal filtration plant vessel thoroughly including painting with one coat of oxide zinc chromate primer and best quality of two coats synthetic enamel paint etc. complete as per direction of Engineer-In-Charge.	1.00	job	5472.00	₹ 5,472.00	MR
8	Taking out the exhausted catalyst (MnO ₂) from Aeration Chamber and fill up the same with required quantity of live catalyst (MnO ₂) all complete as per direction of engineer in charge	1.00	job	6168.00	₹ 6,168.00	MR
9	Providing Installing testing & commissioning Air compressor capacity 3 cfm with 1 HP motor etc. all complete as per direction of engineer in charge.	1.00	job	20765.00	₹ 20,765.00	MR
10	Providing, Installing, Testing & commissioning of Alum Dosing system by Electro Magnetic Metering Pump with 50 Ltrs. Capacity PVC solution tank etc all complete as per direction of engineer in charge.	1.00	each	14382.00	₹ 14,382.00	MR
11	Providing, Installing, Testing & commissioning of Soda Dosing system by Electro Magnetic Metering Pump with 50 Ltrs. Capacity PVC solution tank all complete as per direction of engineer in charge.	1.00	each	14382.00	₹ 14,382.00	MR
12	Providing, Installing, Testing & commissioning of Chlorine Dosing system by Electro Magnetic Metering Pump with 50 Ltrs. Capacity PVC solution tank etc all complete as per direction of engineer in charge.	1.00	job	14382.00	₹ 14,382.00	MR
13	Supply, fittings and fixing of 100 mm dia C. I. Sluice Valve.	5.00	each	6234.00	₹ 31,170.00	MR

SL. No.	Description	Quantity	Unit	Rate	Amount	DSR No.
14	Repairing / replacement of damaged portion of M.S.frontal Pipe line of Iron Removal Filter all complete as per direction of engineer in charge.	1.00	job	1780.00	₹ 1,780.00	MR
15	Supply fitting fixing of Air Compressor line (pvc) with NRV, Gate Valve etc. as required.	1.00	job	4602.00	₹ 4,602.00	MR
16	Supply, fittings and fixing of 25 mm dia GM valve for Airventline etc all complete as per direction of engineer in charge.	4.00	each	1239.00	₹ 4,956.00	MR
17	Commissioning of the Iron removal Filtration plant and all complete as per direction of engineer in charge.	1.00	each	6417.00	₹ 6,417.00	MR
	Total				₹ 2,44,256.00	

**Executive Engineer
BCD-II, CPWD, Barasat**