

BILL OF QUANTITIES - SABS GROENKLOOF FIRE WATER PUMPS & TANKS

Item	Description	Unit	Quantity	Tariff	Amount
	PRELIMINARY AND GENERAL FIXED CHARGE ITEMS				
1,1	Contractual Requirements	Sum	1		
1,2	Establishment of facilities on site	Sum	1		
1,3	Other fixed charge obligations	Sum	1		
1,4	Removal of Site Establishment	Sum	1		
1,5	Accommodation & Travel	Sum	1		
	TIME RELATED ITEMS				
1,6	Contractual Requirements	Sum	1		
1,7	Operate and maintain facilities on Site	Sum	1		
1,8	Supervision for duration of Construction	Sum	1		
1,9	Company and head office overhead costs.	Sum	1		
1,10	Location of Existing Services	Sum	1		
1,11	12 Months maintenance and warranties	Sum	1		
2	WATER RETICULATION SYSTEM				
	Firewater connection: Allow for connecting				
2,1	Ø 150 check valve	No	1		
2,2	Ø 100 check valve	No	1		
2,3	Ø 150 isolation valve (including pressure gauge)	No	3		
2,4	Ø 100 isolation valve (including pressure gauge)	No	2		
2,5	Ø 50 isolation valve (including pressure gauge)	No	2		
2,6	Fire Hydrant main piping: including all fittings, hangers, supports, brackets, bracing, couplings and droppers to outlets		1		
2,7	Ø 150 Class 16 GALVANIZED piping	m	20		
2,8	Ø 150 Class 16 HDPE piping	m	30		
2,9	Ø 050 Class 16 HDPE piping - Allowance	m	100		
2,10	Ø 50 Class 16 GALVANIZED piping	m	25		
2,11	Ø 50 Class 16 HDPE piping	m	70		
2,13	Vortex inhibitor	No	1		
3	Trenching & Backfilling for hydrant main piping	m	100		
4	208 844L Sectional Steel Tank: Installed (7 x 6 x 3 panels), complete with access ladders and inspection hatches	No	1		
5	Equipment Plinths: Casted	Item	1		
6	Fire booster pump - 2460 l/min @ 1050 kPa (Electrical Main and Electrical Jockey): Installed including baseplates	Set	1		
7	Fire booster pumps - 2460 l/min @ 1050 kPa (Diesel Stand-by and Electrical Jockey): Installed including baseplates	Set	1		
8	Strainers: Installed	No	2		
9	Signage :Booster & Hydrant Signs etc	Sum	1		
10	DB/Pump annunciator panel	No	1		
11	Cables (16mm ² - 4 core with 10mm ² BCEW) including terminations	m	80		
12	Trenching & BACKFILLING FOR ELECTRICAL CABLE	m	80		
13	Building of pumphouse with brickwork and IBR roof sheeting 6m x 6m by 2.4m high including lightning protection including foundations concrete slab & plinths	No	1		
14	Pumphouse light fitting & socket outlet		1		
15	Service on site (oil & filter change)	No	1		
16	Supply & install cabling between pump annunciator panel and Main LV kiosk/Main DB, including swinging over of cable, terminations, new circuit breaker etc.	No	1		
17	First fill diesel and diesel for testing (including delivery to site)	No	1		
18	Testing and commissioning on site	No	1		
19	Glycerine filled pressure gauge	No	2		
TOTAL					