BILL OF QUANTITIES

Name of Project :DRILLING OF ONE EXPLORATORY WELL

Typical Design for 200 meters well depth

Item No. (1)	Description (2)	QTY (3)	Unit (4)	Estimated Direct Cost (5)	Mark Up			Total Mark Up Value (10) (5) x(9)	VAT (11) 12%(5+10)	Total Indirect Cost (12) (10)+(11)	Total Cost (13) (5)+(12)	Unit Cost (14) (13)/(3)
					OCM (6) 10%	Profit (7) 8%	Mob/Demob (8) 2%					
1	Mobilization of one Rotary Drilling Units Accessories and Staff to Project Site	1	lot									
2	Preparation of Site and Setting all Equipment	1	no									
3	Drilling of 250mm diameter pilot hole including strate sampling every penetration or less when change of formation occurs	200	mtrs									
4	Reaming of Pilot Hole to 450mm diameter Hole 0-200m	200	mtrs									
5	Geophysical borehole logging (electric resistivity and self potential)	1	lot									
6	Furnishing of 200mm nominal diameter spiral welded casing with minimum wall thickness of 6mm incl. 0.8m stick up and sump pipe	147	mtrs									
7	Furnising of 200mm nominal diameter stainless steel continuous slot wirewound screens, slot size 1.5mm, 3m length each section or with min. open area of 30%	54	mtrs									
8	Installation of casings and screens	201	mtrs									
9	Furnishing and installation of gravel pack at annulus around casings and screens 7-10mm well graded round particles	164	mtrs									
10	Furnishing and installation of 50mm dia. Galvanized gravel fill pipe with screw cap	39	mtrs									
11	Development by surging including bailing out settlements	12	hrs									

12	Development by airlift method	12	hrs									
13	Step drawdown pumping test with five steps at one hour duration each step carried out in succession with discharge rate increasing in equal fractions of expected maximum discharge of 30 lps	1	lot									
14	Continuous constant discharge rate pumping test; Q=30lps	72	hrs									
15	Cement grouting of annulus space around bet. Casing and borehole	36	mtrs									
16	Furnishing and installation of 37.5 mm dia. Water level sounding tube	1	lot									
17	Temporary Facilities	1	lot									
18	Preparation and submission of well drilling report and recommendation	1	lot									