

Table 7: Preliminary Cost Estimate

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
1	6m× 100Ø DI pipe	297	M	8000	2,376,000
2	6m× 75Ø DI pipe	647	M	9000	5,823,000
3	6m× 50Ø DI pipe	1560	M	5000	7,800,000
4	Pipe fittings allow 12%				1,816,540
5	Excavation/Backfilling	46.87	M3	540	25,903.8
6	Grundfos submersible pump	2	Set	132,000	264,000
	-SQ7-55				
	-1.6Kw-2.2HP				
	-Head 80m				
	TOTAL				18,104,849.8

VIII. CONCLUSION

This study has successfully provided a water supply system design for Oke-Eri rural community situated in Ogun State. An average per capital consumption of 100 l/c.d was considered for a design period to end at 2030. The design if implanted would effectively provide potable water for the community. A preliminary total cost of eighteen million, one hundred and four thousand, eight hundred and forty-nine Naira, eight Koko (18,104,849.8) would be required for the project.

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