

**BoQ; PROPOSED CONSTRUCTION OF COMBUSTION & DILUTION AIR FAN FOUNDATIONS**

**BoQ; PROPOSED CONSTRUCTION OF COMBUSTION & DILUTION AIR FAN FOUNDATIONS**

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**Bill No. 1**

**GENERAL PRELIMINARIES**

**Project:**

**Item No.**

**Description**

**Units**

**Quantity**

**Unit Bid  
Rate (Ksh)**

**Amount Ksh**

**GENERAL PRELIMINARY**

1.01

Allow contractual requirements, training levy with holding tax and other GoK statutes necessary to commence and proceed with the works to completion.

SUM

1

1.02

Allow preliminaries to cover overheads, transport, security, storage, water for construction, power supply, clients safety requirements, "Contractors all risks " and other insurances as required by the general Conditions of contract, all temporary Works not covered elsewhere under specific tems of the Bills of Quantities (Provisional Sum not exceeding 10% of Contract Sum)

SUM

1

**TOTAL CARRIED TO SUMMARY**

BoQ; PROPOSED CONSTRUCTION OF COMBUSTION & DILUTION AIR FAN FOUNDATIONS					Page 2
Bill No. 2	COMBUSTION AIR FAN FOUNDATION				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate (Ksh)	Amount Ksh
	<b><u>COMBUSTION AIR FAN FOUNDATION</u></b>				
	<b><u>SUBSTRUCTURE</u></b> (All Provisional)				
	<b><u>EXCAVATIONS</u></b>				
2.1.1	Excavate for foundation bases size 4820 x 3860mm from reduced levels and not exceeding further 1.5 metres deep.	CM	56		
2.1.2	Load and cart away surplus excavated materials from site and deposit as directed	CM	40		
2.1.3	Return and properly ram approved fill materials around foundations	CM	20		
2.1.4	Extra over excavation in any position in rock	CM	3		
2.1.5	Allow for keeping the whole excavation free from sub soil water and running water.	ITEM	1		
	<b><u>Plain Concrete (Mix 1:4:8)</u></b>				
2.1.6	50mm thick concrete (1:4:8) blinding in foundation trenches.	SM	38		
	<b><u>CONCRETE (MIX ;1:1½:2:3-Class 25/20)</u></b>				
2.1.7	Concrete (1:1½:3) mix 20mm max. aggregate size in foundation footing	CM	15		
	<b><u>Sawn formwork to:-</u></b>				
2.1.8	Sides of bases	SM	25		
2.1.9	50mm cement/sand grout on top of fdn bases chamfered at 45° on edges.	SM	15		
	<b><u>Ribbed bar steel reinforcement to B.S 4461 and K.S. ISO</u></b>				
	<b><u>As described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks</u></b>				
2.1.10	16mm Ditto	Kgs	1320		
	<b><u>Test Cubes (Provisional)</u></b>				
	<b>cubes, curing and carrying compressive strength test as per</b>				
2.1.11	After 7 days	No.	12		
	<b>Total Carried Forward to Collection</b>				

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Bill No. 3	COMBUSTION AIR FAN FOUNDATION -SILENCER SUPPORT				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate (Ksh)	Amount Ksh
2.1.12	After 28 days  <b><u>SILENCER SUPPORT FOUNDATION</u></b>  <b><u>EXCAVATION</u></b>	No.	12		
2.2.1	Excavate for foundation base size 2100 x 2100mm from reduced levels and not exceeding further 1.5 metres deep.	CM	10		
2.2.2	Load and cart away surplus excavated materials from site and deposit as directed	CM	8		
2.2.3	Return and properly ram approved fill materials around foundations	CM	2		
2.2.4	Extra over excavation in any position in rock  <b><u>Plain Concrete (Mix 1:4:8)</u></b>	CM	2		
2.2.5	50mm thick concrete (1:4:8) blinding in foundation trenches.  <b><u>CONCRETE (MIX ;1:11/2:3-Class 25/20)</u></b>	SM	4		
2.2.6	Concrete (1:1½:3) mix 20mm max. aggregate size in foundation footing  <b><u>Sawn formwork to:-</u></b>	CM	2		
2.2.7	Sides of bases	SM	8		
2.2.8	50mm cement/sand grout on top of foundation bases chamfered at 45° on edges.  <b><u>Ribbed bar steel reinforcement to B.S 4461 and K.S. ISO 6935 - 2; 2007 Part 2</u></b>  <b><u>As described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks</u></b>	SM	4		
2.2.9	16mm Ditto  <b><u>BOLTS AND NUTS</u></b>	Kgs	150		
2.2.10	Supply and fix in proper place M16 x 200mm anchorage bolts and nuts	No.	8		
<b>Total Carried Forward to Collection</b>					

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SUMMARY FOR COMBUSTION AIR FAN		Project:
Item No.	Description	Amount (Kshs)
	<u>COLLECTION</u>	
1	From Page 2	
2	From Page 3	
	TOTAL CARRIED TO SUMMARY - COMBUSTION AIR FAN	

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Bill No. 3	DILUTION AIR FAN FOUNDATION				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate (Ksh)	Amount Ksh
	<b><u>DILUTION AIR FAN FOUNDATION</u></b>				
	<b><u>SUBSTRUCTURE</u></b> (All Provisional)				
	<b><u>EXCAVATIONS</u></b>				
3.1.1	Excavate for foundation bases size 4820 x 3860mm from reduced levels and not exceeding further 1.5 metres deep.	CM	28		
3.1.2	Load and cart away surplus excavated materials from site and deposit as directed	CM	20		
3.1.3	Return and properly ram approved fill materials around foundations	CM	10		
3.1.4	Extra over excavation in any position in rock	CM	1		
3.1.5	Allow for keeping the whole excavation free from sub soil water and running water.	ITEM	1		
	<b><u>Plain Concrete (Mix 1:4:8)</u></b>				
3.1.6	100mm thick concrete (1:4:8) blinding in foundation trenches.	SM	19		
	<b><u>CONCRETE (MIX ;1:11/2:3-Class 25/20)</u></b>				
3.1.7	Concrete (1:1½:3) mix 20mm max. aggregate size in foundation footing	CM	8		
	<b><u>Sawn formwork to:-</u></b>				
3.1.8	Sides of bases	SM	13		
3.1.9	50mm cement/sand grout on top of fdn bases chamfered at 45° on edges.	SM	7		
	<b><u>Ribbed bar steel reinforcement to B.S 4461 and K.S. ISO 6935 - 2; 2007 Part 2</u></b>				
	<b><u>As described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks</u></b>				
3.1.10	16mm Ditto	Kgs	700		
	<b>Total Carried Forward to Collection</b>				

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Bill No. 3	DILUTION AIR FAN FOUNDATION - SILENCER SUPPORT FOUNDATION				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate (Ksh)	Amount Ksh
	<b><u>SILENCER SUPPORT FOUNDATION</u></b>				
	<b><u>EXCAVATION</u></b>				
3.2.1	Excavate for foundation base size 2100 x 2100mm from reduced levels and not exceeding further 1.5 metres deep.	CM	5		
3.2.2	Load and cart away surplus excavated materials from site and deposit as directed	CM	4		
3.2.3	Return and properly ram approved fill materials around foundations	CM	1		
3.2.4	Extra over excavation in any position in rock	CM	1		
	<b><u>Plain Concrete (Mix 1:4:8)</u></b>				
3.2.5	100mm thick concrete (1:4:8) blinding in foundation trenches.	SM	2		
	<b><u>CONCRETE (MIX ;1:11/2:3-Class 25/20)</u></b>				
3.2.6	Concrete (1:1½:3) mix 20mm max. aggregate size in foundation footing	CM	1		
	<b><u>Sawn formwaork to:-</u></b>				
3.2.7	Sides of bases	SM	4		
3.2.8	50mm cement/sand grout on top of fdn bases chamfered at 45° on edges.	SM	2		
	<b><u>Ribbed bar steel reinforcement to B.S 4461 and K.S. ISO 6935 - 2; 2007 Part 2</u></b>				
	<b><u>As described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks</u></b>				
3.2.9	16mm Ditto	Kgs	75		
	<b><u>BOLTS AND NUTS</u></b>				
3.2.10	Supply and fix in proper place M16 x 200mm anchorage bolts and nuts	No.	4		
	<b>Total Carried Forward to Collection</b>				

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Bill No. 3	DILUTION AIR FAN FOUNDATION - SILENCER SUPPORT FOUNDATION				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate (Ksh)	Amount Ksh
3.1.11	<u>Test Cubes (Provisional)</u>				
	<u>Sampling, preparation of 150 x 150 x 150mm concrete cubes, curing and carrying compressive strength test as per Standard Specification and obtain a Test Certificate.</u>				
	After 7 days	No.	12		
3.1.12	After 28 days	No.	12		
1	SUB TOTAL CARRIED TO COLLECTION				
	<u>SUMMARY FOR DILUTION AIR FAN FOUNDATION</u>				
	From Page 5				
	From Page 6				
3	From Above				
TOTAL CARRIED TO SUMMARY - DILUTION AIR FAN FOUNDATION					

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GRAND SUMMARY			Project:
Item No.	Description	From Page	Amount (Kshs)
1	GENERAL PRELIMINARIES	1	
2	COMBUSTION AIR FAN FOUNDATION (2No. BASES)	4	
3	DILUTION AIR FAN FOUNDATION (1No. BASE)	7	
(A)	TOTAL OF BILLS		
(B)	<u>ADD:</u> Provisional Sum for Contingency {10% of A}		
(C)	SUB-TOTAL [(A) + (B)]		
(D)	<u>ADD:</u> Provision for Value Added Tax (VAT) {16% of (C)}		
(E)	<b>BID PRICE [(C) + (D)]</b> (Carried Forward to Form of Bid)		