

2.3. GEARBOXES- Addendum to Pricing Schedule

NOTE: FAILURE TO ATTACH BILL OF QUANTITY IN BID DOCUMENT AND FILL IN FULL WILL LEAD TO DISQUALIFICATION

- **Gearboxes**

The detailed requirements in relation of the activities below in contained Technical Specifications.

2.3.1. Labour and traveling for gearboxes.

Item	Description	UOM	Amount Including VAT
1	Traveling to site with half ton LDV bakkie	Rate/Km	
2	Traveling to site with 1 ton LDV bakkie	Rate/Km	
3	Traveling to site with 2 ton LDV vehicle	Rate/Km	
4	Traveling to site with 5 ton LDV vehicle	Rate/Km	
5	Labour rate for one fitter and one assistant normal time	Rate/Hour	
6	Labour rate for one fitter and one assistant overtime time	Rate/Hour	

NOTE:

- ALL price must include VAT, will be charged at AA rare.
- FUEL rate will apply subject to fuel price variant

2.3.2. Repair of Gearbox - HANSEN

Item	Description	UOM	30KW	37KW	37KW	37KW
	Model No		HANSEN RNC36AN	HANSEN RNC36AN	HANSEN	HANSEN QVPF3UDN
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box(+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass(New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn- around time of 48 hours surcharge	Each				

2.3.3. Repair of Gearbox – Hansen

Item	Description	UOM	55KW	75KW	90KW	110KW
	Model No		HANSEN QVPC3UDN	HANSEN QVPC3UDN	HANSEN QVPF3UDN	HANSEN RNF36AN
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass (New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn-around time of 48 hours surcharge	Each				

2.3.4. Repair of Gearbox – SIEMENS

Item	Description	UOM	7.5KW	22KW	3.7kW
	Model No		ZF128-K2		DF109
			Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each			
2	Clean strip and quote	Each			
3	Shot Blasting of casing and components	Each			
4	All Bearings (New Part)	Each			
5	Pinion gear motor shaft (New Part)	Each			
6	Input shaft (New Part)	Each			
7	Gears first stage set (New Part)	Each			
8	Gears intermediary set (New Part)	Each			
9	Gears output and pinion (New Part)	Each			
10	All oil seals (New Part)	Each			
11	Side Glass (New Part)	Each			
12	Breather (New Part)	Each			
13	Oil Pump (New Part)	Each			
14	Oil	Each			
15	Installation and Commissioning	Each			
16	Emergency order turn-around time of 48 hours surcharge	Each			

2.3.5. Repair of Gearbox – FLENDER

Item	Description	UOM	7.5KW	11KW	15KW	15.5KW
	Model No				DF161D200 (25RPM)	SZN160
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass (New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn-around time of 48 hours surcharge	Each				

2.3.6. Repair of Gearbox - FLENDER

Item	Description	UOM	18.5KW	18.5KW	22KW	30KW
	Model No		Z128-K4-180	Z128-K4-180		H3BV06B
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass (New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn-around time of 48 hours surcharge	Each				

2.3.7. Repair of Gearbox – FLENDER

Item	Description	UOM	32KW	45KW	55KW	55KW
	Model No		H3BV06B	H3BV06B	H3BV 7B	H3BV08B
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass (New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn-around time of 48 hours surcharge	Each				

2.3.8. Repair of Gearbox – FLENDER

Item	Description	UOM	15KW - 23RPM	75KW
	Model No			H3BV 7B
			Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each		
2	Clean strip and quote	Each		
3	Shot Blasting of casing and components	Each		
4	All Bearings (New Part)	Each		
5	Pinion gear motor shaft (New Part)	Each		
6	Input shaft (New Part)	Each		
7	Gears first stage set (New Part)	Each		
8	Gears intermediary set (New Part)	Each		
9	Gears output and pinion (New Part)	Each		
10	All oil seals (New Part)	Each		
11	Side Glass (New Part)	Each		
12	Breather (New Part)	Each		
13	Oil Pump (New Part)	Each		
14	Oil	Each		
15	Installation and Commissioning	Each		
16	Emergency order turn-around time of 48 hours surcharge	Each		

2.3.9. Repair of Gearbox – MIXTEC

Item	Description	UOM	3KW - 50RPM	5.5KW – 50RPM	5.5KW – 25RPM	7.5KW – 21RPM
	Model No				2137	2137
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass (New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn-around time of 48 hours surcharge	Each				

2.3.10. Repair of Gearbox – MIXTEC

Item	Description	UOM	11KW - 36RPM	11KW	11KW	15KW – 23RPM
	Model No		2137	1097-286		
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass (New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn-around time of 48 hours surcharge	Each				

2.3.11. Repair of Gearbox – MIXTEC

Item	Description	UOM	18.5KW - 50RPM	30KW – 34RPM	30KW	37KW – 34RPM
	Model No			1097-286		1189
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass (New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn-around time of 48 hours surcharge	Each				

2.3.12. Repair of Gearbox - MIXTEC

Item	Description	UOM	75KW	90KW	5.4KW	10.7KW
	Model No		4008	4009	2087	2107
			Amount Including VAT	Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each				
2	Clean strip and quote	Each				
3	Shot Blasting of casing and components	Each				
4	All Bearings (New Part)	Each				
5	Pinion gear motor shaft (New Part)	Each				
6	Input shaft (New Part)	Each				
7	Gears first stage set (New Part)	Each				
8	Gears intermediary set (New Part)	Each				
9	Gears output and pinion (New Part)	Each				
10	All oil seals (New Part)	Each				
11	Side Glass (New Part)	Each				
12	Breather (New Part)	Each				
13	Oil Pump (New Part)	Each				
14	Oil	Each				
15	Installation and Commissioning	Each				
16	Emergency order turn-around time of 48 hours surcharge	Each				

2.3.13. Repair of Gearbox – MIXTEC

Item	Description	UOM	13.8KW	14.14KW	18.8KW
	Model No		2109	2129	2137
			Amount Including VAT	Amount Including VAT	Amount Including VAT
1	Remove gear box (+ crane hire)	Each			
2	Clean strip and quote	Each			
3	Shot Blasting of casing and components	Each			
4	All Bearings (New Part)	Each			
5	Pinion gear motor shaft (New Part)	Each			
6	Input shaft (New Part)	Each			
7	Gears first stage set (New Part)	Each			
8	Gears intermediary set (New Part)	Each			
9	Gears output and pinion (New Part)	Each			
10	All oil seals (New Part)	Each			
11	Side Glass (New Part)	Each			
12	Breather (New Part)	Each			
13	Oil Pump (New Part)	Each			
14	Oil	Each			
15	Installation and Commissioning	Each			
16	Emergency order turn-around time of 48 hours surcharge	Each			

2.3.14. Schedule of Rates

All Gearboxes and spares that are not itemised on the schedule of rates will be on a cost-plus basis

Specify Cost plus rate %	
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2.3.15. Maintenance: Scope of Work for Gearboxes but not limited to the following:

Asset Name:	Gearboxes	
Item		
	Monthly	
Check the signs of all abnormalities such as oil leaks, excessive vibrations, high temperatures and abnormal noise.	X	
Clean up dust, excessive oils & grease from external surfaces of the gearbox to facilitate cooling	X	
Check and secure all gearbox mountings by tightening loose bolts & nuts, anchor bolts and foundation bolts of the gearbox where necessary	X	
Check that gearbox breather vent & plug is clean and open	X	
Check the oil level in the gearbox then top-up if required with oil recommended by OEM	X	
Examine oil by taking samples for tribology/lab analysis and further visually check the condition of oil for contamination such as dust, grit and water	X	
Check excessive temperatures using temperature instrument e.g. temperature gun, log-down gearbox temperature and compare with previous results to check if the condition is deteriorating or is stable	X	
Perform vibrations analysis on the gearbox, compare with previous results to check if the condition is deteriorating or the gearbox is stable	X	
Drain and replace gearbox oil based on tribology & oil analyses report	X	
Strip gearbox to inspect the condition of internal components based on tribology & oil analysis report. Focus on internal parts such as bearings, gears and shafts. Change the parts which are found to be excessively worn-out. (when required)		

2.3.15.1. Rates for Gearboxes

Preventative maintenance

Note: (Awarded bidder will be required to submit maintenance plan & will be check and approved by ERWAT upon signing of SLA)

DD3

Item No.	Description	Unit Rate per Gearbox (VAT Inclusive)
1.	Olifantsfontein WCW	
2.	Hartebeestfontein WCW	
3.	Benoni WCW	
4.	Esther Park WCW	
5.	Rynfield WCW	

DD4

Item No.	Description	Unit Rate per Gearbox (VAT Inclusive)
6.	JP Marais WCW	
7.	Welgedacht WCW	
8.	Ancor WCW	
9.	Daveyton WCW	
10.	Jan Smuts WCW	

DD5

Item No.	Description	Unit Rate per Gearbox (VAT Inclusive)
11.	Heidelberg WCW	
12.	Ratanda WCW	
13.	Carl Grundlingh WCW	
14.	Herbert Bickley WCW	
15.	Tsakane WCW	

DD6

Item No.	Description	Unit Rate per Gearbox (VAT Inclusive)
16.	Dekema WCW	
17.	Waterval WCW	
18.	Vlakplaats WCW	
19.	Rondebult WCW	