



ANNEXURE B

REQUEST FOR DEVIATION FROM PROCUREMENT PROCESSES

FROM: MAINTENANCE

DATE: 01/04/2025

DIVISION: FINANCE

TEL: 014 597 4636

For Procurement Use):

REF NO:

SUBJECT: REQUEST FOR DEVIATION IN RESPECT OF SOLE SOURCE SUPPLIER FOR THE REPAIRS OF THE HIGHLIFT PUMPS FOR A PERIOD UNTIL 30 JUNE 2026.

FORWARDED TO YOU FOR:☒ Approval☐ Other**1. PURPOSE:**

Request the CE to note the deviation in respect of repair all HLPS pumps at Magalies Water's plants by OEM for a period until 30 June 2026.

2. BACKGROUND

High lift pumps are critical equipment's that requires comprehensive component repair methods. Best quality component repair methods can only be employed if there is availability or accessibility of detailed product information, component design dimensions and specified surface finish information. This is required in order achieve correct design clearances and to bring the equipment back to design specification after repair. This product information is often classified and only available at the OEM.

- The value of this Deviation request.

☐ R0 – R500k☐ R500k – R1 Million☒ more than R1 Million

- Previous history of deviations related to this vendor: No

DEVIATION NUMBER	DATE	VALUE
None		

REASON FOR THE DEVIATION REQUEST

☐ CASE OF EMERGENCY (Lack of Planning does not constitute an emergency)

☒ SOLE PROVIDER

☐ IMPRACTICAL (strip and quote)

4. FINANCIAL IMPLICATIONS

As per the attached quotation.

5. LEGAL IMPLICATIONS

Compliance with Magalies Water Supply Chain Policy.

6. IMPLEMENTATION PLAN / DELIVERABLES

7. CONTACT PERSON

Maintenance Manager

8. ACCOMPANYING / SUPPORTING DOCUMENTS

Yes

9. RECOMMENDATION:

It is hereby recommended that:

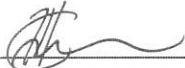
- The CE notes the request for approval in respect of repair all HLPS pumps at Magalies Water's plants by OEM for a period until 30 June 2026.

SUBMITTED BY:

Name: Aaron Mahada

Designation: Sectional Head Mechanical

Date: 15/04/2025

Signature 

SUPPORTED / NOT SUPPORTED BY:

GENERAL MANAGER OF BUSINESS UNIT

Name: Vhahangwele Akinwekomi

Date: 22/04/2025

Signature: Vhahangwele Akinwekomi

FOR PROCUREMENT USE:

1. VENDOR NAME: SULZER

NEW VENDOR: YES / NO

VENDOR NUMBER: _____

2. TAX CLEARANCE AND BBBEE STATUS

Valid Tax Clearance Certificate submitted	CSD REPORT
BBBEE status	X

3. BAC's COMMENTS

4. RECOMMENDATION STATUS

	NAME	SIGNATURE	DATE
Submitted by: SCM	SAMMAKHURA		25/04/2025
Supported by: BAC Chairperson	Matshidiso Tabane		25/04/2025
Recommended by: BAC Member	Vhahangwele Akinwekomi		25/04/2025
Recommended by: BAC Member	Tshiamo Mpane		25/04/2025
Recommended by: BAC Member	Kelebogile Mogamisi		25/04/2025
Recommended by: BAC Member			
Recommended by: BAC Member			

5. APPROVAL STATUS

APPROVED / NOT APPROVED: CHIEF EXECUTIVE	Ofentse Nthutang		02/07/2025
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File No.:14.5.3

SUBMISSION TO THE CHIEF EXECUTIVE

1. SUBJECT

Request for deviation from normal procurement process for repair of pumps by OEM for the duration ending 30 June 2026.

2. PURPOSE

To request Chief Executive to approve the deviation from normal procurement process for repair all HLPS pumps at Magalies Water's Vaalkop and Klipdrift plants by OEM.

3 BACKGROUND

The first plant at Vaalkop Water Treatment Works (WTW) was built in 1969 with the main goal of supplying water to Platinum mines within the Thabazimbi and Rustenburg areas. Today Vaalkop WTW has 4 treatment plants providing quality bulk water and secondary services to mines, municipalities and other industries across Gauteng, Limpopo and North West. The 270ML/day plant serves the following major consumers: Thabazimbi local municipality, Moses Kotane local municipality, Rustenburg Local Municipalities, Royal Bafokeng Administration, Royal Bafokeng Mines, Xstrata (SA Chrome), Amandabuilt Mine, Swartklip Mine, Northam Platinum Mine, Pretoria Portland Cement, and Impala Platinum.

Vaalkop WTW has 3 high lift pumpstations (Plant 2,3 and 4). Plant 2 Pump Station supplies water to Lapa Drie command reservoirs, Plant 3 has 5 pump sets supplying Boosportline and plant 4 supply Lapa Drie. The 2B Line has three pumps (Pump 4, 5 and 6), which pumps to command reservoirs (Lapa Drie). The pumps have been out of service for more than 3 years. The Vaalkop High Lift Pump Station 2 (HLPS2) has 3 outgoing pumping mains that pumps towards the Northern Scheme, including Lapatrie cluster of reservoirs.

- 2A - Pump set 1,2 and 3 (2 duty and 1 standby), pumping into a 600mm line,
- 2B- Pump set 4,5 and 6 (2 duty and 1 standby), pumping into a 900mm line and
- 2D pump set 1 A&B and pump set 2A&B (one pump set in series at max) pumping into a 1000mm line.
- Plant 3 has 5 pumps, (4 duty and 1 standby)
- Plant 4 has 4 pumps (3 duty and 1 standby)

Submission to deviate from normal procurement process for repair all HLPS pumps.

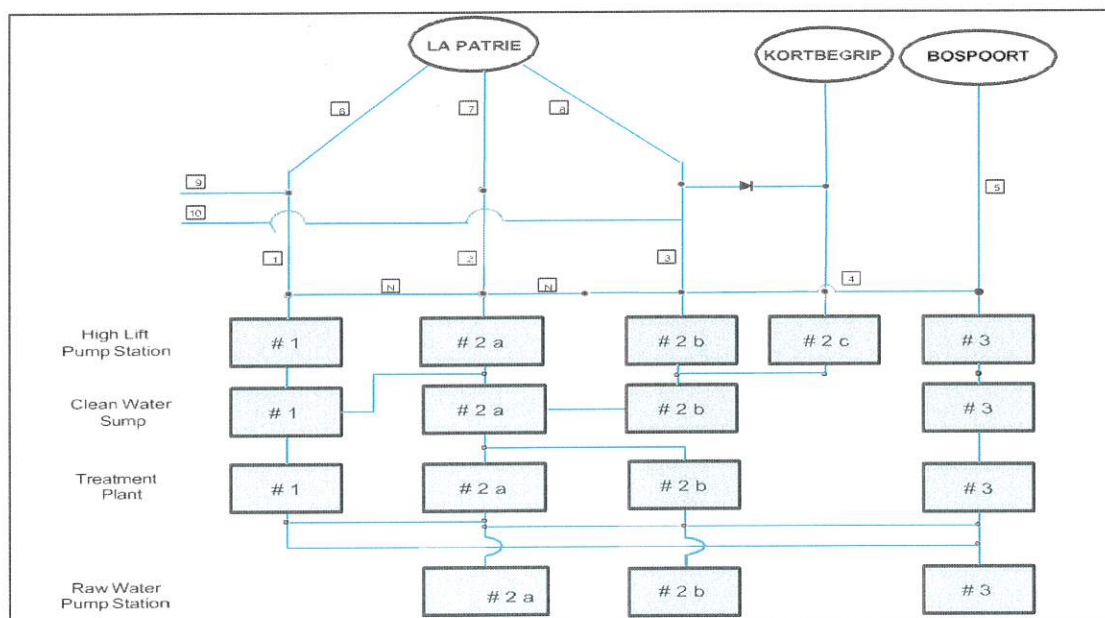


Figure 1- HLPS 2 Pump sets and pumping mains

Plant	Line	Pump No	OEM	Pump Size	Status
VLK HLPS. 2	2A	1	Sulzer	HPH 54-25 3STG	Pump Fail Due to normal wear and tear, to be removed after replacing failed valves.
	2A	2	Sulzer	HPH 54-25 3STG	Pump Fail Due to normal wear and tear, removed and stripped by OEM.
	2B	4,5	Sulzer	HPH 58-25 3STG	Pump Repaired and installed in plant 3
	2C	8	Sulzer	HPL 42-22.5 5STG	Pump Running, in unhealthy state
	2C	9	Sulzer	HPL 42-22.5 5STG	Pump Running, in unhealthy state
	2D	A-Line	Sulzer	DME & SDS 400-500	Pump running, mechanical seals need replacement
	2D	B-Line	Sulzer	DME & SDS 400-500	Pump repaired, recommissioning in progress
VLK. HLPS. 3		2,3	Sulzer	HPH 58-25 3STG	Pump failed, need repairs

Total Number of pumps that are still in the plant (Vaalkop and Klipdrift), which are not running or running in unhealthy state (6), all these pumps requires complete refurbishment to bring them to or close to as build operating efficiency.

Submission to deviate from normal procurement process for repair all HLPS pumps.

DISCUSSION

Magalies water follow competitive bidding procurement processes as prescribed by the department of treasury, the same processes were followed to do repairs and refurbishment of all the pumps in the past in all pump stations. These processes attract many service providers which result in service providers without the product knowledge winning the bids and getting orders to repair and refurbish these pumps due to their low bidding prices. As a result, the pumps are subjected to poor equipment or component repair standards which subsequently results in equipment premature failure.

High lift pumps are critical equipment's that requires comprehensive component repair methods. Best quality component repair methods can only be employed if there is availability or accessibility of detailed product information, component design dimensions and specified surface finish information. This is required in order achieve correct design clearances and to bring the equipment back to design specification after repair. This product information is often classified and only available at the OEM. Disadvantages of sending pumps to non OEM service providers is that they often don't have required detailed design information, again; should there be a requirement of spares replacement, the service provider still has to source the spares from the OEM which always results in a delayed repair process. To prevent the delay, the service provider may use pirated spares without consideration of the pump design parameters (part material composition and application) which affects equipment reliability, resulting to premature failure after equipment repair.

The advantages of utilising OEM for repair of critical equipment is that they have the know-how of the repair process of their equipment, OEM may provide warranty and support after repair provided other service providers of user do not attempt to repair the product in an event that the pump fails. With the OEM, the lead time for repair is always reduced since the OEM is the supplier of equipment spares. OEM always have detailed information of their equipment including detailed drawings with required clearances of the internals which affects pumps efficiencies and reliability.

As an additional quality control measure, Magalies Water maintenance team is always present for the physical inspection of the pumps, after stripping and sand blasting. A report is drafted and shared with Magalies water (Annexure 1), this is discussed in detail to ensure that the repairs and or refurbishments are performed inline with the approved Quality Control Plan (Annexure 2) and mitigate against ballooned cost. The OEM includes the warranty of 12 months on the repaired or refurbished equipment, Magalies Water has

Submission to deviate from normal procurement process for repair all HLPS pumps.

utilized the warranty claims on two occasions (2D pump bearings, mechanical seal and plant 3 pump 5 mechanical seal). We have not experienced any major reworks on the pumps which have been recently refurbished by the OEM.

5 ORGANIZATIONAL IMPLICATIONS

Upholding Magalies Water obligation of provision of bulk water to consumers.

6 FINANCIAL IMPLICATIONS

The cost can will be determined after stripping and assessment of the pumps. The budget for the repairs for Highlift pumps will be utilized.

Description	Budget	WBS Element
F2425 Refurbishment of plant 2 (2A,2C) pumps to improve reliability of supply	9 000 000	M-01580-1
F2526 Highlift pumps refurbishment	6 000 000	N/A

7. LEGAL IMPLICATION

Magalies Water to enter into a Service Level Agreement with the appointed Service Provider.

8. COMMUNICATION IMPLICATIONS

The Corporate Services Department to manage the process.

9. OPTIONS

There are other service providers, but due to the complexity of the pump designs and sizes, Magalies Water's best option is to appoint the OEM to perform the repairs. The risk of sending the pumps to other service providers who do not have critical information about the pump designs would be premature failure of the pumps which would subsequently lead to water interruption to consumers.

Submission to deviate from normal procurement process for repair all HLPS pumps.

10 DELEGATION

It is within the Chief Executive's delegation.

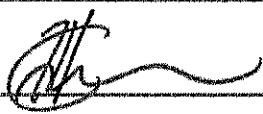
11. RECOMMENDATIONS

It is hereby recommended that the Chief Executive approve the deviation from normal procurement process for the repair of all high lift pumps at Magalies Water's by the OEM for the duration ending 30 June 2026.

SUBMITTED BY:

Name: Aaron Mahada

Designation: Sectional Head Mechanical

Signature 

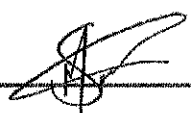
Date 01/04/2025

SUPPORTED / NOT SUPPORTED BY:

LINE MANAGER:

Name: Mthokozisi Mavimbela

Designation: Maintenance Manager (West)

Signature 

Date 02/04/2025

SUPPORTED / NOT SUPPORTED BY:

REGIONAL MANAGER:

Name: Sandile Ngcobo

Signature 

Date 03/04/2025

Submission to deviate from normal procurement process for repair all HLPS pumps.

SUPPORTED / NOT SUPPORTED BY:

GENERAL MANAGER OF THE BUSINESS UNIT

Vhahangwele Akinwekomi

Name: _____

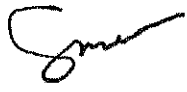
Signature: L Akinwekomi

Date: 22/04/2025

SUPPORTED / NOT SUPPORTED BY:

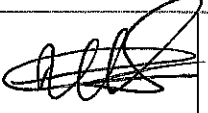
CHIEF OPERATIONS OFFICER OF THE BUSINESS UNIT

Name: S Mbadamana

Signature: 

Date: 23/04/2025

APPROVED BY

CHIEF EXECUTIVE OFFICER	OFENTSE NTHUTANGA		<u>02/03/2025</u>
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Submission to deviate from normal procurement process for repair all HLPS pumps.

ANNEXURE 1 INSPECTION REPORT

MP17100-1/5

SULZER			Inspection Report			WKR 805/1		
Project No: 100516332			Inspector/ Estimator: Frans Machette					
Client: Magalies Water			Ex-repair No:					
Pump Type: HPH 58-25/3 STAGE			Pump Rotation: CW					
Date: 24.07.2023			Pump Colour: Sulzer Blue					
Client Contact: M. Macleod P. Monte			Serial No: MP17100-1/5					
SCOPE OF WORK								
ITEM	DESCRIPTION	ARTICLE NUMBER	MAT	QTY	NEW	RECON	COAT	REPAIR METHOD
1	SUCTION CASING	104625148200	0.7040	1		X	CAR300	1. FULL RECON PLATE (CAST IRON) 2. Manufacture stuffing box (bronze) mechanical seal [104619761202] 3. Weld 4 spots on all location diameters and machine to drawing 4. Weld and machine flange face to drawing 5. Replace small protection insert (Bronze) 6. Replace radius insert (Bronze) 7. Weld and machine feet landing faces to drawing 8. Drill and build up G 2" for balance water 9. Re-lap all threaded holes and clean 10. Repair damaged holes 11. Coat wetted areas with Car 300
2	STAGE CASING	104608272201	0.7040	2		X	CAR300	1. Weld all locating diameters and machine to drawing 2. Pro plate - Replace 3. Skim faces for parallelity, maintain drawing size. 4. Repair and re-lap all threaded holes.
3	TIE BOLTS M76 " 720	104606750003	1.7225	8		X		
4	TIE BOLTS M76 " 830	104606759003	1.7225	8		X		
5	NUTS M76"6	015201015610	STEEL	24		X		
6	WEAR RING BUCT	104625132005	1.4059	1	X		X	
7	WEAR RING CASING	104625131003	1.4059	2	X		X	
8	WEAR RING SMALL	104625133006	1.4059	2	X		X	
9	DISCHARGE CASING	104606758201	0.7040	1		X	CAR300	1.Manufacture, fit and machine large ring 2.Manufacture, fit and machine spigot ring 3.Manufacture, fit and machine recon plate 4.Weld 4 spots on all location diameters and machine to drawing 5.Retap, recon damaged threads and clean 6.Coat wetted areas with Car 300
10	SUCTION IMPELLER	104608020004	1.4317	1	X		X	1. Uneconomical to repair- Replace
11	NORMAL IMPELLER	104608021004	1.4317	1	X		X	1. Uneconomical to repair- Replace
12	NORMAL IMPELLER	104608021004	1.4317	1	X		X	1. Uneconomical to repair- Replace
13	DIFFUSER	104601257203	1.4317	3	X		X	1. Uneconomical to repair- Replace
14	PLATE TO LAST DIFF	104608018200	0.7040	1	X		CAR300	1. Uneconomical to repair- Replace
15	OVERFLOW PIECE	104138560200	0.7040	2	X		CAR300	1. Uneconomical to repair- Replace
16	PROTEC BUSH TO LAST PLATE	104606752001	PB1	1	X			
17	SHAFT 3 STAGE	104600155230	Gr. 826M40 Cond II	1	X			1. Uneconomical to repair- Replace
18	FLINGER NDE	104617089200	CuAl10Ni3Fe2 (C03329)	1	X			
19	FLINGER DE	104617089200	CuAl10Ni3Fe2 (C03329)	1	X			
20	SHAFT SLEEVE DE	104608342002	Gr X46Cr13+AT,325-375HB	1	X			
21	SHAFT SLEEVE NDE	104617733001	Gr X46Cr13+AT,325-375HB	1	X			
22	SHAFT NUT	104606940003	1.4059	1	X			
23	THROTTLING BUSH	104606756001	1.4034	1	X		X	
24	COUNTER DISC	104606747202	0.7040	1	X			
25	WEAR SLEEVE	104606750001	PB1	1	X		X	
26	WEAR RING TO C DISC	104603764010	PB2	1	X		X	
27	BALANCE DISC	104606743204	AB1	1	X		X	
28	WEAR RING BAL DISC	104603764001	1.4034 S/W	1	X		X	
29	NECK BUSH	104606744200	0.6020	1	X			
30	BEARING BRKT DE (SPLIT)	104625118200	0.7040	1	X			Replaced with a split one
31	BEARING LINER DE (SPLIT)	104625773200	Cast Iron/White metal brg	1	X			Replaced with a split one
32	LUB RING SPLIT	104604310204	2.0401	1	X			
33	BEARING BRKT NDE	104625118200	0.7040	1	X			Replaced with a split one
34	STUFFING BOX ASSY	104626784200	0.7040	1	X		X	
35	BEARING LINER NDE (SPLIT)	104626785200	Cast Iron/White metal brg	1	X			Replaced with a split one
36	LUB RING SPLIT	104604310204	2.0401	1	X			
37	MECHANICAL SEAL	TFP10469500484		1	X			Replacing gland
38	MECHANICAL SEAL	TFP10469500484		1	X			Replacing gland
39	W/LIMIT SWITCH W/ALARM	104626786200	VARIOUS	1	X			
40	COUPLING	GEAR HUB GDE 4S		1	X			
41	COOLING PIPE	COPPER		X	X			
42	BALANCE PIPE	SS		X	X			
43	ACCESSORIES	VARIOUS		NOT	X			

MP17100-1/1

Submission to deviate from normal procurement process for repair all HLPS pumps.

SULZER		Inspection Report				WKR 805/1		
Project No:		100513913		Inspector/ Estimator:		Frans Machethe		
Client:		Magalies Water		Ex-repair No:				
Pump Type:		HPH 58-25/3 STAGE		Pump Rotation:		CW		
Date:		09.07.2023		Pump Colour:		Sulzer Blue		
Client Contact:		M. Macleod P. Monde		Serial No:		MP17100-1/1		
SCOPE OF WORK								
ITEM	DESCRIPTION	ARTICLE NUMBER	MAT	QTY	NEW	RECON	COAT	REPAIR METHOD
1	SUCTION CASING	104625148200	0.7040	1		X	CAR300	1, FULL RECON PLATE (CAST IRON) 2, Manufacture stuffing box (bronze) mechanical seal [104619781202] 3, Weld 4 spots on all location diameters and machine to drawing 4, Weld and machine flange face to drawing 5, Replace small protection insert (Bronze) 6, Replace radius insert (Bronze) 7, Weld and machine feel landing faces to drawing 8, Drill and build up G 2" for balance water 9, Re-tap all threaded holes and clean 10, Repair damaged holes 11, Coat wetted areas with Car 300
2	STAGE CASING	104608272201	0.7040	2	X		CAR300	1, Uneconomical to repair- Replace 2, Coat wetted areas with Car 300
3	TIE BOLTS M76 " 720	104606750003	1.7225	8		X		
4	TIE BOLTS M76 " 830	104606759003	1.7225	8		X		
5	NUTS M76'S	D15201015610	STEEL	24		X		
6	WEAR RING SUCT	104625132005	1.4059	1	X		X	
7	WEAR RING CASING	104625131003	1.4059	2	X		X	
8	WEAR RING SMALL	104625133005	1.4059	2	X		X	
9	DISCHARGE CASING	104606758201	0.7040	1		X	CAR300	1, Manufacture, fit and machine large ring 2, Manufacture, fit and machine spigot ring 3, Manufacture, fit and machine recon plate 4, Weld 4 spots on all location diameters and machine to drawing 5, Retap, recon damaged threads and clean 6, Coat wetted areas with Car 300
10	SUCTION IMPELLER	104608020004	1.4317	1	X		X	1, Uneconomical to repair- Replace
11	NORMAL IMPELLER	104608021004	1.4317	1	X		X	1, Uneconomical to repair- Replace
12	NORMAL IMPELLER	104608021004	1.4317	1	X		X	1, Uneconomical to repair- Replace
13	DIFFUSER	104601257203	1.4317	3		X	X	Fettle vanes and recoat
14	PLATE TO LAST DIFF	104608018200	0.7040	1	X		CAR300	1, Uneconomical to repair- Replace
15	OVERFLOW PIECE	104138560200	0.7040	2	X		CAR300	1, Uneconomical to repair- Replace
16	PROTEC BUSH TO LAST PLATE	104606752001	PB1	1	X			
17	SHAFT 3 STAGE	104600155230	Gr 826M40 Cond.U	1	X			1, Uneconomical to repair- Replace
18	FLINGER NDE	104617089200	CuAl10Ni3Fe2 [CC332G]	1	X			
19	FLINGER DE	104617088200	CuAl10Ni3Fe2 [CC332G]	1	X			
20	SHAFT SLEEVE DE	104608342002	Gr X46Cr13+AT.325-375HB	1	X			
21	SHAFT SLEEVE NDE	104617733001	Gr X46Cr13+AT.325-375HB	1	X			
22	SHAFT NUT	104606940003	1.4059	1	X			
23	THROTTLING BUSH	104606758001	1.4034	1	X		X	
24	COUNTER DISC	104606747202	0.7040	1	X			
25	WEAR SLEEVE	104606750001	PB1	1	X		X	
26	WEAR RING TO C DISC	104603764010	PB2	1	X		X	
27	BALANCE DISC	104606743204	AB1	1	X		X	
28	WEAR RING BAL DISC	104603764001	1.4034 S/W	1	X		X	
29	NECK BUSH	104606744200	0.6020	1	X			
30	BEARING BRKT DE (SPLIT)	104625118200	0.7040	1	X			Replaced with a split one
31	BEARING LINER DE (SPLIT)	104625773200	Cast Iron/White metal brg	1	X			Replaced with a split one
32	LUB RING SPLIT	104604310204	2.0401	1	X			
33	BEARING BRKT NDE	104625118200	0.7040	1	X			Replaced with a split one
34	STUFFING BOX ASSY	104625784200	0.7040	1	X		X	
35	BEARING LINER NDE (SPLIT)	104625785200	Cast Iron/White metal brg	1	X			Replaced with a split one
36	LUB RING SPLIT	104604310204	2.0401	1	X			
37	MECHANICAL SEAL	TPP10469500484		1	X			Replacing gland
38	MECHANICAL SEAL	TPP10469500484		1	X			Replacing gland
39	W/LIMIT SWITCH W/ALARM	104625796200	VARIOUS	1	X			
40	COUPLING		GEAR HUB GDE 4S	1	X			
41	COOLING PIPE		COPPER	X	X			
42	BALANCE PIPE		SS	X	X			
43	ACCESSORIES		VARIOUS	107	X			

Submission to deviate from normal procurement process for repair all HPLS pumps.

Inspection Report		WKR 805/1	
Project No: 100507538		Inspector/ Estimator: Frans Machethe	
Discharge casing:			
13. Discharge casing: (1 off)		Material: 5.31060000 Part No: 104606758201	
Description	Fault	Size	Repair Method
Loc 800 to stage casing.	Worn		weld 4 spot and machine to drawing standard
Loc 270 to last plate.	Washed		Manuf, fit and machine spigot ring ro drawing std
Loc 475 to bearing bracket.	Washed		Manuf, fit and machine recon plate ro drawing std(Mild steel)
Loc 205 to counter disc.	Washed		Manuf, fit and machine recon plate ro drawing std(Mild steel)
Loc 195 to counter disc.	Washed		Manuf, fit and machine recon plate ro drawing std(Mild steel)
Loc face for counter disc.	Washed		Manuf, fit and machine recon plate ro drawing std(Mild steel)
Flange faces.	Worn		Weld and skim to drawing
Monitoring hole.			
Wetted area	Washed		Suggested method of repair: coat with CAR300
			Repair damaged holes, Tap and clean all threaded holes
			RE-USE
32.1. Counter disc: (1 off)		Material: 5.31060000 Part No: 104606747200	
Description	Fault	Size	Repair Method
Loc 195 to discharge.	Worn		
Loc 180 to discharge.	Worn		
Bolt hole face.			
Monitoring hole.			
			REPLACE
32.3. Coun disc wlr: (1 off)		Material: CuSN12-C Part No: 104606757002	
Description.	Fault.	Size.	
Wear ring face	Worn		
			REPLACE
32.18 Wear sleeve: (1 off)		Material: CuSN12-C Part No: 104606750001	
Description.	Fault.	Size.	Repair Method.
Wear sleeve dia 155.	Worn		
			REPLACE
13.35. Plate to diff: (1 off)		Material: 5.3106 Part No: 104605550200	
Description.	Fault.	Size.	Repair Method.
Loc 260 to discharge casing.	Washed		
Loc 540 to diffuser.	Washed		
			REPLACE
20. Diffuser (1 off)		Material: PB1-C Part No: 104605548401	
Description	Fault	Size	Repair Method
Loc 540 to over flow.	Washed		
Inlet & outlet vanes.	Worn		
Width 45	OK		
Hydraulic parts.	Worn		
			REPLACE

Submission to deviate from normal procurement process for repair all HLPS pumps.

[illegible]

Submission to deviate from normal procurement process for repair all HLPs pumps