

Page 1 of 19	
REV:	3
PROJECT REF: NO	CGHE 0531
DRA VALUE:	R0 M
ERA VALUE:	R2.34 M
TECH PLAN VALUE	R2.33 M

	PROJECT EXECUTION RELEASE APPROVAL	ERA FORM REV 12a June 2012
		PROJECT TITLE: Incline Conveyors Counterweight Modification

DRA REF NO:	N/A	CLIENT/OWNER:	Lukhanyo Ndube
BA NAME:	Hendrina Power Station	ENGINEER:	N. Mabila
BA CODE:	3220	PROJECT MANAGER:	L. Msweli
OWNER COST CENTRE:	327406	PREPARED BY:	N Mabila
ASSET CLASS:			

REVISION HISTORY			INVESTMENT CLASSIFICATION	
	VALUE	DATE	MANDATORY/STATUTORY	
ORIGINAL	R3.79 M	2017-07-31	OPERATIONAL MAINTENANCE	
REVISION 1	R2.29 M	2018-08-13	EFFICIENCY IMPROVEMENT	X
REVISION 2	R2.33 M	2019-04-15	NEW INFRASTRUCTURE/ CAPACITY	
REVISION 3	R2.34M	2021-02-15		
REVISION 4				
			PROJECT CLASS	
			CAPITAL	X
			R&E	
			CAPITAL & R&E	

REASON FOR VARIANCE FROM TECHPLAN Re-phasing of funds from 2020FY to 2022 FY and there is a change in scope

PROJECT DELEGATION	YES	NO
PROJECT INCLUDED IN CURRENT BUDGET	X	
IF NOT, WAS PRE-APPROVAL OBTAINED FROM HIGHEST RELEVANT COMMITTEE		
PROOF OF PRE-APPROVAL ATTACHED		

Page 2 of 19	
REV:	3
PROJECT REF. NO	CGHE 0531
DRA VALUE:	R0 M
ERA VALUE:	R2 34 M
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SCOPE:

The scope of this project caters for 2 sides of the inclines (north and south):

The scope entails

- The Contractor performs an assessment on the system and collect necessary data needed for the modification (drawings, operation philosophies etc)
- The Contractor compiles and provides a comprehensive method statement and the Employer to approve prior commencing with works (Taking into account the production risk assessment as provided by the Employer)
- The Contractor designs and installs correct electric winch to lift and lower the loads in the plant (the hoists to be able lift a minimum weight of 4 tons)
- The Contractor fabricate the brackets of the electric winches
- The Contractor install the brackets on to the existing structure of the counter weight
- The Contractor install the electric winch (drum, shaft, bearings, couplings, wire ropes, gearbox and motor) on to the brackets
- The Contractor install new sheave wheels for the wire ropes on top of the C-channel
- The Contractor produces the General arrangement drawing of electric winch
- The Contractor produces the detailed manufacturing drawing of the electric winch
- The Contractor submits the detailed design report of electric winch with design calculations, general arrangement drawing and detailed manufacturing drawing to the Employer for approval prior to fabrication
- The Contractor specifies and installs sheave wheels, brackets and slings for electric winch.
- The Contractor reviews the existing counterweight beams and columns for the possibility of handling the imposed loads
- The Contractor provides and installs control panels, cabling etc for lifting as well as lowering the weights
- The existing switchgear room next to the drive houses to be used as a supply for the electric winch
- The Contractor supplies the Quality Control Plan and this to be approved by the Employer prior commencement with the works
- The Contractor provides ECSA certificates Mechanical professional engineers
- The Contractor ensures there's a permit to work before any work commences and regulations as per Employer's PSR are adhered to regarding conveyor belts
- The works to be performed in such a way that no coal spillages as well as fires occur during the

Page 3 of 19	
REV.	3
PROJECT REF. NO	CGHE 0531
DRA VALUE	R0 M
ERA VALUE	R2 34 M
TECH PLAN VALUE	R2.33 M

installation.

- The installation to be in such a way that the surrounding belt components are not damaged
- The Contractor provides all equipment necessary to execute work
- The Contractor performs NDT testing to be done on all welds and the data pack to be provided thereof
- The data pack to included maintenance strategy, operating philosophy, drawings, material specifications, NDT results, load testing results and material certificates
- Load test the beams before installation
- The Contractor provides material specifications and or certificates to be provided for all components used
- The Contractor is responsible for accuracy of fabrication and erection fit-up
- Dismantled/removed components to be disposed off to the allocated area as per Eskom *environment procedure*
- The Contractor supplies all necessary lifting equipment for the removal and installation of the components
- The design to comply with the latest versions of Occupational Health and Safety Act in relation to Electrical Installation Regulations, Electrical Machinery Regulations, General Machinery Regulation and Driven Machinery Regulations
- The Contractor tests and commissions the system prior handover The QIP to be signed off by Eskom's quality personnel as well as Engineer prior handover
- The Contractor provides training to the Employer
- The Contractor provides spares list of the electric winch
- The Contractor provides operating manual and maintenance manual of the electric winch.

Page 4 of 19	
REV:	3
PROJECT REF: NO	CGHE 0531
DRA VALUE:	R0 M
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JUSTIFICATION FOR EXECUTION RELEASE:

Problem statement:

The total enclosure of the counter weights mechanism limit access to maintenance personnel as the adjacent belt has to be on permit when working on the enclosure, with a total shutdown of the set of inclines if the middle belt-tensioning unit has to be worked on.

The current landing platforms shown in figure 1 below restrict movement of personnel during attaching and de-attaching the chain blocks on the top beams for lifting and lowering of the counter weights as the space between the landing platform and roof is around 1 meter. This restricts personnel to awkward positions while performing critical tasks. The chain block, which weighs up to 5 tons, are manually lifted and lowered between the access landing platform and the ground floor whenever lifting or lowering is required. The time taken to lift the counter weight is around 2 to 3 hours.

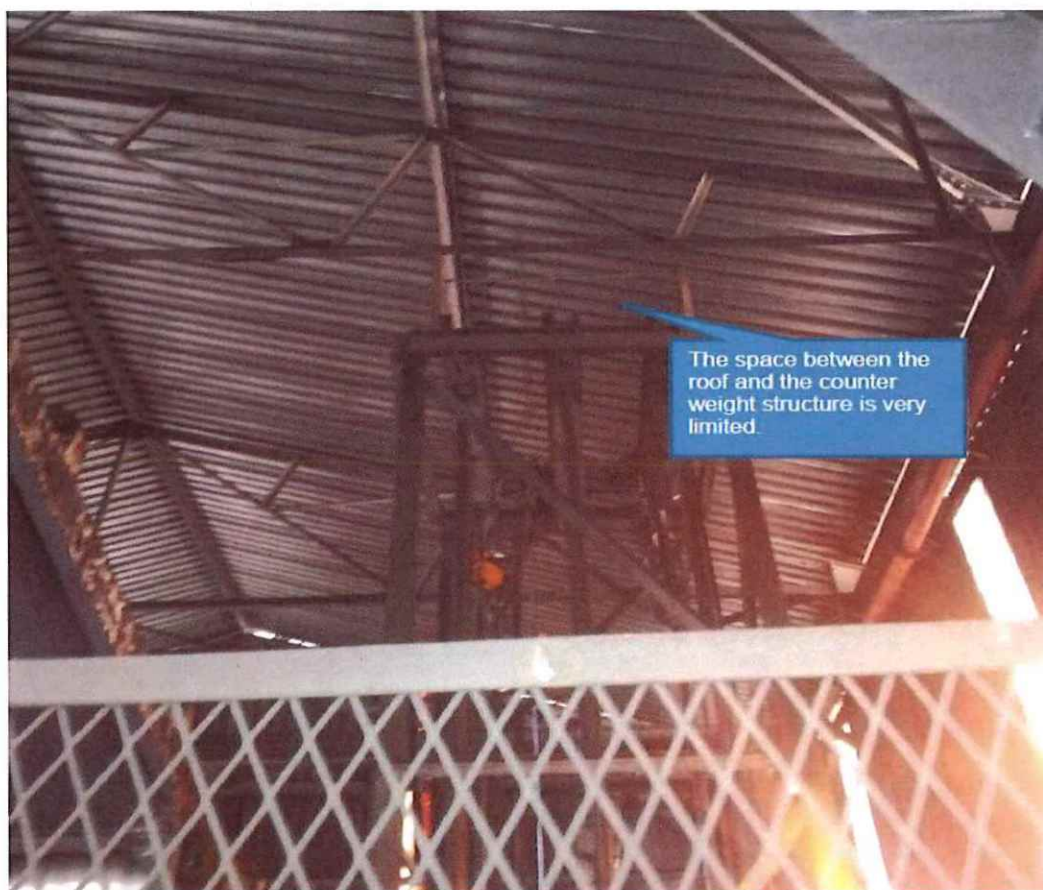


Figure 1: Counterweight landing platform

The risks associated with the current design are:

- Safety of personnel involved when manually lifting and lowering of the chain blocks, especially when the activity is required over short intervals, i.e. belt breaking (on both mechanical and vulcanised splicing) time and again as there is a risk of falling.
- Personnel forced to awkward positions on the landing platform as it can accommodate two people at most and the heights is limited to 1 meter at most due to the roof. This is risky as personnel are doing labour intensive jobs on uncomfortable situation with potential of falling.
- The time taken to only lift the counter weight, which is around 2 to 3 hours possess a business risks in terms of load losses due to low bunker levels, should the situation goes to extremes, where at least two belts snap or so as the availability will be reduced.

Page 5 of 19	
REV:	3
PROJECT REF: NO	CGHE 0531
DRA VALUE:	R0 M
ERA VALUE:	R2 34 M
TECH PLAN VALUE	R2.33 M

Description/functionality of component:

There is a take-up (counter weight) on each incline belt for maintaining tension on the belt under normal operating conditions and for releasing tension on the belt to allow for maintenance activities. In brief, the importance of the take up is necessary for ensuring sufficient amount of slack side tension T2 at the drive pulley in order to prevent belt slip, ensuring proper belt tension at the loading and other points along the conveyor, compensate for the changes in belt length and allowing belt storage in case of splice replacement. Each belt design counter weight weighs around 2 tons. This excludes the reeving impact of the cable at the gravity take up tower. Each set of three counter weights for both the north and south inclines are totally enclosed on screens and IBR sheeting. The realising of tension is done manually through chain blocks positioned at the top beams. Personnel manually lift and lower the chain blocks and slings between the ground floor and the landing platform on top of the counter weights. The length of travel for the counter weights is around 2 meters.

History:

In the past it has been recorded that it takes a long time to lower and lift these counterweights and the process is tedious. This becomes worse if the sheave wheels as well as the brackets have worn out due to friction imposed on the slings. The manual lifting and lowering can be very dangerous when the slings are wearing off hence the electrical operation will solve the issue.

Progress/ detail of prefeasibility studies to date:

COE has conducted a feasibility study to come up with the best suitable concept that is technically and economically viable.

Assumptions & evidence:

- The project will cost about R2 33 M with the risk allowance included and all the works will be covered in this amount.
- No delays on the project.
- No low bunker levels registered during installation.
- All conveyor belts are properly maintained prior the execution of the project to eliminate the risk of breakdowns.

Risks:

-Technical plant risks

- The risk associated with the project might be prolonged downtime on incline belts installation. This might be a production risk as there will be a risk on low bunker levels.
- The counterweight area is a risky area to be worked on due to high tensioned slings (PSR).
- Breakdowns on the belts might cause delays on the project.
- Production as well as health and safety risk assessments will be compiled to alleviate this.

-Project/Investment risks

- The risk in terms of escalation is low due to less amount of steel required.
- The works take place in an enclosed area, therefore the project may still continue during rainfall.
- 10% risk allowance has been projected to risks associated with this project.

Timing:

- The project takes place over a short period, hence IDC's are not seen as an issue. It can be executed within one financial year.

Expert opinion:

The project is supported by COE and the feasibility study has been conducted at this stage.

Page 6 of 19	
REV:	3
PROJECT REF: NO	CGHE 0531
DRA VALUE:	R0 M
ERA VALUE:	R2.34 M
TECH PLAN VALUE	R2.33 M

Recommendation (Details of selected option including technical and economic assumptions)

The selected option involves installing crawl beams ahead landing platforms that are depicted in figure 1. These are located inside the drive house as shown in figure 2 below. From these crawl beams the electric winched will be installed (1 for each belt) to lower and lift the blocks by using the ropes as opposed to chains. The power will be tapped from the 380V switchboard located just outside the drive house. Each and every winch to have a panel for stop and start that is reversible.

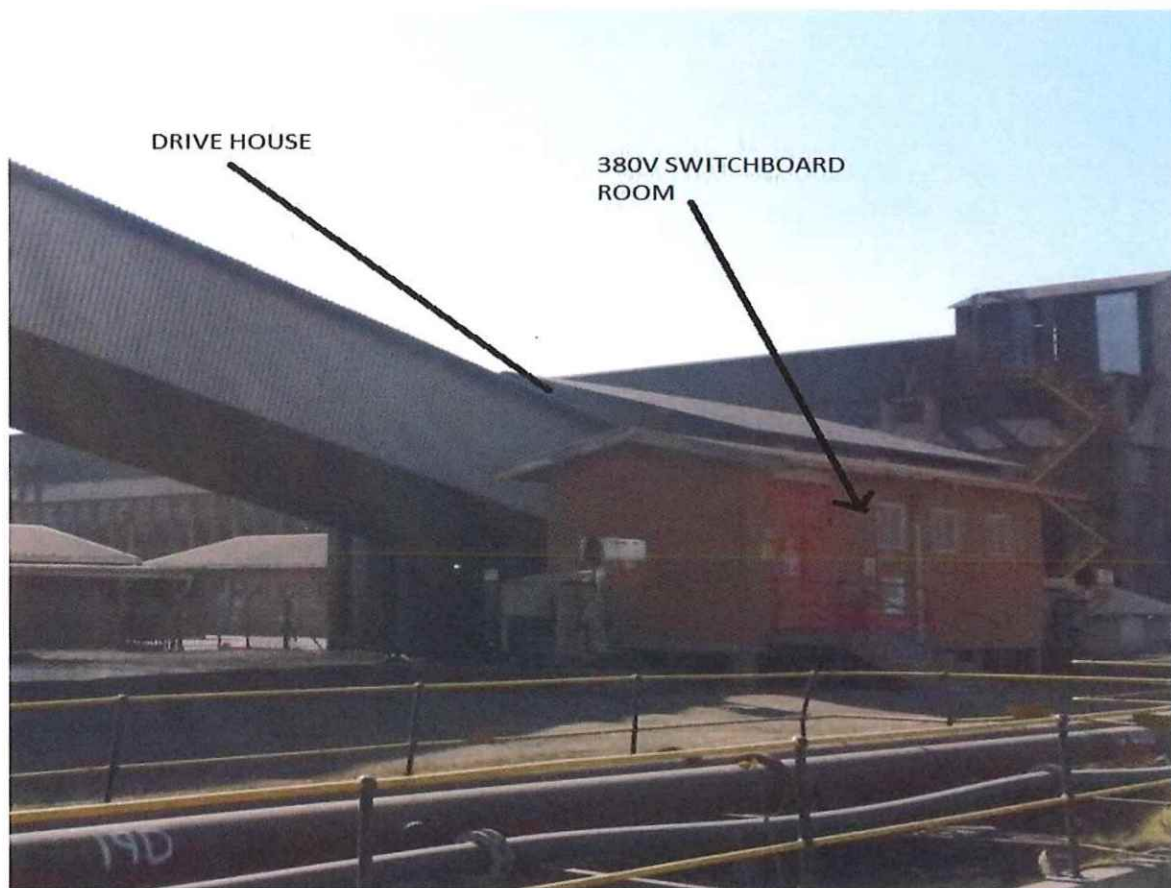


Figure 2: Drive house and switchboard.

REVISIONS:

Revision	Scope/Time Change	Value Change R'M	Justification for change
1	No change in scope Request for 1 month extra from the original time requested on Rev 0	-R1.5M	Tenders came lower than anticipated. Additional time to cater for COE design approval
2	Re-phasing of funds from 2019FY to 2020 FY.	R0.04	
3	Scope change		

Page 7 of 19	
REV:	3
PROJECT REF: NO	CGHE 0531
DRA VALUE:	R0 M
ERA VALUE:	R2.34 M
TECH PLAN VALUE	R2.33 M

COMMERCIAL PROCESS:

Has the commercial process commenced	No
If Yes, state reason for commencing before investment approval	
If Yes, what is the status of the commercial process	

REJECTED ALTERNATIVES:

Base Case – Status quo

Description Leave the current situation as is i.e. Continue with the current set up

Assumptions:

- No capital cost

Reason for rejecting:

- Health and safety risk is not alleviated
- Possible production losses

Page 8 of 19	
REV.	3
PROJECT REF. NO	CGHE 0531
DRA VALUE	R0 M
ERA VALUE.	R2 34 M
TECH PLAN VALUE	R2 33 M

REV	0 00
PROJECT REF NO	C GHE0531
Results in	R million

ECONOMIC EVALUATION:

ASSUMPTIONS

	Base Case:- Status quo	Preferred Option	Rejected Alternatives		
OPTIONS	1	2	3	4	5

Real/ Constant Rands 2020 R'M

CAPEX					
Capex – project cost	-	2 34	-	-	-
Capex – lifecycle cost	-	-	-	-	-

OPEX					
Opex – repair cost	-	-	-	-	-
Opex – lifecycle cost	0 90	0 35	12 40	-	-

PCLF					
% Per annum	0 00%	0 00%	0 00%	0 00%	0 00%
Equivalent MWh	-	-	-	-	-

UCLF					
% Per annum	0 00%	0 00%	0 00%	0 00%	0 00%
Equivalent MWh	-	-	-	-	-

Net Sentout Capacity					
MW Per annum	-	-	-	-	-
Equivalent MWh	-	-	-	-	-

Thermal Efficiency					
% Per annum	0 00%	0 00%	0 00%	0 00%	0 00%
Equivalent MWh	-	-	-	-	-

Nominal after tax Discount Rate	10 5%
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Economic Evaluation Model used

MinGIM (V2 14) (May 2019) Hendrina_C GHE0531 xlsx

Page 9 of 19	
REV.	3
PROJECT REF. NO	CGHE 0531
DRA VALUE.	R0 M
ERA VALUE.	R2.34 M
TECH PLAN VALUE	R2.33 M

REV	0 00
PROJECT REF. NO	C GHE0531
VALUE	

RESULTS:

Investment Classification	Mandatory / Statutory
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Nature of Project

Sustainment	✓
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Life Cycle Cost results - for sustainment projects (with reference to Master) 2020 R'M

	Base Case: Status quo	Preferred Option	Rejected Alternatives		
OPTIONS	1	2	3	4	5
Present value life-cycle cost	-0.51	-1.77	-7.39	-	-
- Availability (PCLF & UCLF)***	-	-	-	-	-
- Opex	-0.71	-0.27	-10.27	-	-
- Capex	-	-2.10	-	-	-
- Tax	0.20	0.59	2.87	-	-
Ranking	1	2	3	4	

Page 10 of 19	
REV	3
PROJECT REF NO	CGHE 0531
DRA VALUE	R0 M
ERA VALUE	R2.34 M
TECH PLAN VALUE	R2.33 M

PROGRAMME:

Start date(s)	2021-11-01
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UNIT	Scheduled outage dates	Non-scheduled outage dates	Transfer into CO date	Value into CO
Unit 1				2022-06-30
Unit 2				
Unit 3				
Unit 4				
Unit 5				
Unit 6				
Unit 7				
Unit 8				
Unit 9				
Unit 10				

Proposed FRA date	2022-08-30
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Page 11 of 19	
REV.	3
PROJECT REF NO	CGHE 0531
DRA VALUE	R0 M
ERA VALUE	R2.34 M
TECH PLAN VALUE	R2.33 M

Project Costing Sheet R'M	Incurred to date	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	Future Expenditure	TOTAL
CONTRACT COSTS								
Basic Local - Rand	0.04	1.84						1.88
Basic Foreign - Rands								0.00
Escalation Local								0.00
Escalation Foreign								0.00
Other (specify)								0.00
TOTAL CONTRACT COSTS	0.04	1.84	0.00	0.00	0.00	0.00	0.00	1.88
RESOURCES COSTS								
Project management fee								
External								0.00
Internal								
-In BA		0.11						0.11
-Out BA								0.00
Engineering fee								
External								0.00
Internal								
-In BA		0.02						0.02
-Out BA								0.00
Other								
External								0.00
Internal								
-In BA								0.00
-Out BA								0.00
Resources Escalation								0.00
TOTAL RESOURCES COSTS	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.13
INTEREST								
Forward Premium								0.00
Interest During Construction								0.00
TOTAL INTEREST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Risk Allowance		0.33						0.33
TOTAL COST OF ERA	0.04	2.30	0.00	0.00	0.00	0.00	0.00	2.34
DRA COSTS								0.00
ERA COSTS								0.00
TOTAL PROJECT COSTS	0.04	2.30	0.00	0.00	0.00	0.00	0.00	2.34

Page 12 of 19	
REV.	3
PROJECT REF. NO	CGHE 0531
DRA VALUE	R0 M
ERA VALUE	R2.34 M
TECH PLAN VALUE	R2.33 M

PROJECT COSTING ASSUMPTIONS:

Base date:		External contract cost driver split		
Contract Date:	2021-11-01		Local	Foreign
		Materials	70%	
Basis of estimate:		General PPI linked	70%	
Budget quote	Y	Steel		
Similar scope of work		Copper		
Quantity surveyor	Y			
Confidence level of costing	85.5%	Labour	30%	
Comments:		Other		
			100%	100%

Inflation	2018/19	2019/20	2020/21	2021/22	2022/23	Future	Source
Local - CPI %	N/A	N/A	N/A	N/A	4.9%	N/A	Economic evaluation parameter
- PPI %	N/A	N/A	N/A	N/A	5.7%	N/A	Economic evaluation parameter
Foreign -CPI %	N/A	N/A	N/A	N/A	N/A	N/A	
- PPI %	N/A	N/A	N/A	N/A	N/A	N/A	
Steel							
Copper							
Other - specify							

Foreign Currency

	2018/19	2019/20	2020/21	2021/22	2022/23	Future	Source
Local/Foreign Split %							
Local			100%	100%	100%	100%	Management accounting
Foreign							
Foreign Currency Exchange Rates							
USD							
EUR							

Interest Rate Differentials

ZAR/ USD/ EUR / other							
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Capitalisation of Interest

IDC							
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S-curve assumptions – (Spend profile of payments)

% annual profile					100%				
Risk allowance (should add up to 100%) VALUE	2018/19	2019/20	2020/21	2021/22	2022/23	FUTURE	TOTAL	%	
General Project Cost: Local Inflation									
General Project Cost: Foreign Inflation									
Commodity Price Volatility									
Foreign Currency Volatility									
Other – Project Scope									
Other - specify					0.33		0.33		
TOTAL						R0.33 M	R0.33	100	

Page 13 of 19	
REV:	3
PROJECT REF: NO	CGHE 0531
DRA VALUE:	R0 M
ERA VALUE:	R2 34 M
TECH PLAN VALUE	R2.33 M

	Justification
General Project Cost: Local Inflation	Although access to the plant, especially where production will be interrupted, is limited to mainly construction, installation and commissioning, changes can be made to meet the current production requirements which might necessitate incurring standing time. This has been evident through recent projects that have been implemented in the coal plant.
General Project Cost: Foreign Inflation	
Commodity price volatility	
Foreign currency volatility	
Scope of work uncertainty	
Other - specify	
TOTAL	

~~Sensitivity: Controlled Disclosure~~

Page 15 of 19	
REV	3
PROJECT REF. NO	CGHE 0531
DRA VALUE	R0 M
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RESOURCES MANAGEMENT & ASSUMPTIONS:

	Hours	Rate per hour	Total cost (R'M)	Effective % of Total Contract costs	Equivalent Man Months
Project Management					
External					
Internal					
- In BA	480	0.22	0.11		
- Out BA					
Engineering					
External					
Internal					
- In BA	250	0.40	0.10		
- Out BA					
Other					
External					
Internal					
- In BA					
- Out BA					
Escalation			0.00		
Total			0.21		

ASSOCIATED PROJECT(S)/SCHEMES (Include project ref no):

STATUS OF THE ABOVE PROJECTS/SCHEMES:

SHE: SAFETY, HEALTH AND ENVIRONMENTAL CONSIDERATIONS:

Will any effluent (solid, liquid or gaseous) be produced as a result of this project? Yes, waste will be disposed according to the Hendrina Power Station Waste Management procedure (HSPPIN/003)

- 1 Will the project impact on the physical environment, e.g. more land utilised? No
- 2 Will this project require any permits from Government due to any legislation? No
- 3 Will any existing permits have to be changed? No
4. Will the project have an effect on any third party? No

Page 16 of 19	
REV.	3
PROJECT REF: NO	CGHE 0531
DRA VALUE	R0 M
ERA VALUE	R2.34 M
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TAX IMPLICATIONS: (to be filled in for all projects above R10M)

INCOME TAX IMPLICATIONS:

Section 12C (new and unused asset) constructed and brought to use for the first time and used directly in the process of manufacture. A total of R16.50 M (R16.30 M and R0.20 M internal costs) will be subject to size allowance over 4 years (40, 20, 20, 20)

VAT IMPLICATIONS:

CUSTOMS DUTY IMPLICATIONS:

INCOME TAX IMPLICATION: (to be filled in for projects below R10M)

Capital Breakdown

R'M

Environmental treatment and recycling assets 37B		40%, 20%, 20%, 20%
Environmental waste disposal assets 37B		5% p a for 20 years
Decommissioning, remediation or restoration expenditure/loss 37B		100% deduction when incurred
External Contract Costs 12C New & unused		40%, 20%, 20%, 20%
External Contract Costs 12C Used & Other		20%, 20%, 20%, 20%, 20%
External Contract Costs 12D	1.87	5% p a
External Contract Costs 11(e)	0.13	Practice notes 15, 19 and 39
IDC 11 (bA)	0.33	100% when placed into CO

R&E Breakdown

R'M

Section 11(a)		100% when incurred
Section 11(d)		100% when incurred

Miscellaneous

R'M

Forward Premium S24I(3)6		100% when paid, accrues or is incurred
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R'M

Total ERA Value	2.33	
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Alternative tax treatment:

Page 17 of 19	
REV.	3
PROJECT REF. NO	CGHE 0531
DRA VALUE	R0 M
ERA VALUE	R2.34 M
TECH PLAN VALUE	R2.33 M

**DISPOSAL OF REPLACED ASSETS (R'000)
(RESIDUAL VALUES)**

	2018/19	2019/20	2020/21	2021/22	2022/23	Subsequent Years	Total
Original Cost							
Value of Material							
Estimated proceeds of sale							

GOVERNANCE:

Ultimate Investment committee responsible for approving this investment:

History of investment committee involvement

Investment Committee	Support / Approval?	Date of Support/ Approval
Power Station Investment Committee	Approval	2021-02-15
Operating Unit Investment Committee		
GOIC		
Group Capital		
Exco ICAS		
Board IFC		
Eskom Holdings Board		

Page 19 of 19	
REV.	3
PROJECT REF NO	CGHE 0531
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(e) I have satisfied myself to the total integrity of this concept and herewith recommend this proposal



BA / Power Station Project Manager

202106/30

Date

(f) I have satisfied myself with all aspects of this concept and herewith recommend this proposal



BA / Power Station Manager

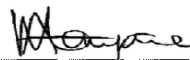
01/07/2021

Date

2

(a) ***Approval / Recommendation Signature: (*Delete whichever is not applicable)**

The proposal has been approved for execution by the Portfolio Finance and Investment Committee / recommended for approval to the Generation Operational Investment Committee



Chairman (Operating Unit Investment Committee)

2021/07/07

Date

Approval (Minutes of meeting dated 17 May 2021 attached)

***Approval / Recommendation Signature: (*Delete whichever is not applicable)**

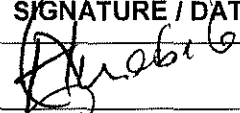
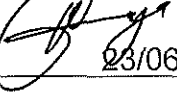
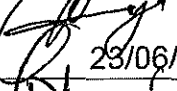
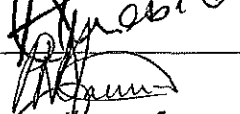
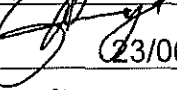
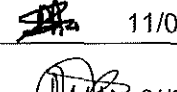
(c) The proposal has been approved for execution by the Generation Operational Investment Committee / recommended to the Exco Investment, Capital and Assurance Sub-committee

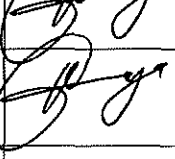
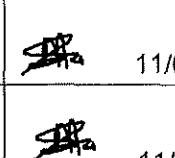
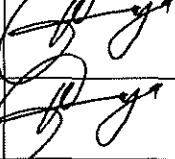
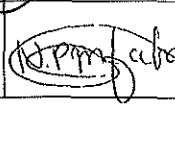
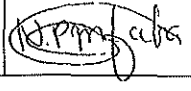
Chairman (Generation Operational Investment Committee)

Date

Approval (Minutes of meeting dated _____ attached)

 Eskom	HENDRINA POWER STATION	REFERENCE F/ESK128	REV 0
SAP PROJECT NUMBER	CRA/DRA/ERA CHECKSHEET	August 2010	
		Page 1 of 1	
	PROJECT TITLE		
C.GHE0531	Incline Conveyor Counter weight Modification		

ERA QUALITY	RESPONSIBLE PERSON	SIGNATURE / DATE
1 The following has been reviewed and corrected • ERA / DRA Template • Formatting • Numbering standard • Spelling / Grammar • Economic evaluation • Technical Plan funding	SE: Nhlanhla Mabila	
	HOD: Ogorogile Ngwenya	 23/06/2021
	Finance: Mosa Mafokoane	 11/06/2021
	TPC: Anari Van Greuning	 23/06/2021
2 ERA has been checked against the minutes to ensure that all issues have been addressed • HOD • HIC • OUC3 / GOIC	SE: Nhlanhla Mabila	
	HOD: Phephisani Dlamini	
	TPC: Anari Van Greuning	 23/06/2021
	Finance: Mosa Mafokoane	 11/06/2021
3 Environmental Screening Checklist	Environmental: Justice Ramagoma	 24/06/2021

ATTACHMENTS	YES / NO	RESPONSIBLE PERSON	SIGNATURE / DATE
Original ERA Document	Y	Finance: Mosa Mafokoane	 11/06/2021
	Yes	TPC: Anari Van Greuning	 23/06/2021
Minutes of Meeting - HOD	Yes	TPC: Anari Van Greuning	 23/06/2021
Minutes of Meeting - HIC	Y	Finance: Mosa Mafokoane	 11/06/2021
Minutes of Meeting PU3 / GOIC / ICAS	N/A	Finance: Mosa Mafokoane	 11/06/2021
Station Variance Forms	N/A	Finance: Mosa Mafokoane	 11/06/2021
PU3 – Variance Forms	N/A	TPC: Anari Van Greuning	 23/06/2021
Funding – Motivational Memorandum	N/A	TPC: Anari Van Greuning	 23/06/2021
Project Implementation Plan		Project Manager: Lungi Msweli	 2021/06/11