**APPENDICES**

**VARIATION ORDERS AND CLAIMS**

**APPENDIX 1: MMTS2**

| **NAME OF A SUPPLIER/CONTRACTOR** | **DESCRIPTION OF EXTENSION (VO)** | **MOTIVATION PROVIDED** | **APPROVED CONTRACT VALUE** | **EXTENSION VALUE (VO)** | **WHO GRANTED APPROVAL** | **WAS THE MATTER REFERRED TO NATIONAL TREASURY AND WHAT WAS THE OUTCOME ( REASONS FOR APPROVAL OR DECLINE)** |
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| WBHO Construction (Pty) Ltd. for the construction of the MMTS-2 Water Transfer System | VO29: DAB fess | The fees for a standing DAB were not included in the original contract i.e. employer’s 50% contribution only. This was added to the contract at a later stage.  | R611, 059 million (all inclusive, but excluding VAT)  | R 160 000,00 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO44: Refurbishment of pump no. 3 motor  | During the Defects Notification Period, the electric motor of the MV Pump No. 3 was found to be running at very high temperatures and it was decided that it should be sent to the factory for detailed inspections and assessments. This Variation Order covers the costs associated with removal, transportation, testing, reinstallation and recommissioning of the motor. | R 406 862,72 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| VO45: Additional telemetry requirements for MMTS-1 and MMTS-1 | New engineering requirements resulted in additional works on the integration of MMTS-1 & 2 and this was not envisaged in the original scope of work. | R 428 390,88 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| VO46: Ground bed for cathodic protection | Additional anode ground bed is required to ensure adequate cathodic protection on the section of pipeline at the break pressure tank. This was discovered during commissioning testing procedures. | R 523 660,50 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| VO47: Mpofana outfall – damaged wedge gate valve | During the Operation & Maintenance (O&M), a valve was subsequently damaged because it was 1% (versus 100% closed) open during the operation of the scheme. The replacement valve resulted in additional costs. | R 194 021,64 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| VO48: Rising main – rehabilitation work on Spring Vale 85 and BBCOS | There was an appeal on the Environmental Authorisation that was upheld, therefore during tender phase detailed investigations could not be carried out. As such the tender specification is based on a generic requirement. The site inspection and specific requirements were provided by the ecologist during construction and resulted in additional work compared to the generic requirements.  | R 458 672,05 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| VO8: Greytown road civils | Resettlement houses were constructed at Mooi River for people that were displaced by construction. The initial approach was for the landowners to undertake the process and submit financial loss claims as per the land acquisition process and legislation. Due to challenges and delays by the landowners, TCTA took control of the process to ensure timeous deliver of water i.e. MMTS-2 project milestone.  | R 588 681,00 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| VO21: landslide at Ch. 5.900 rising main | A section of the trench for the pipeline failed and required additional work to make the environment safe for workers and to protect the adjacent MMTS-1 pipeline.  | R 118 816,00**)** | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| **TOTAL** |  |  |  | R 2 879 104,79  |  |  |
| **VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work.** | **TOTAL** |  |  | R 160 000,00 |  |  |
| **Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress.** | **TOTAL** |  |  | R 2 719 104,79  |  |  |
|   |   |   |   |   |   |   |
| AECOM (formerly BKS) consultancy services for Phase 2 of the Mooi Mgeni Transfer Scheme (MMTS-2) | VO63: Refurbishment of Motor for MMTS-2 Pump 3 | Assessment/investigation of the pump due to malfunction during Operations & Maintenance (O&M) after handing over to the operators. | R235, 42 million (all inclusive, but excluding VAT) | R 42 538,13 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| **TOTAL** |  |  |  | **R 42 538.13** |  |  |
|   |   |   |   |   |   |   |
| **GRAND TOTAL** |  |  |  | **R 2 921 642.92** |  |  |
| **VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work.** |  |  |  | R 160 000.00 |  |  |
| **Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress.** |  |  |  | R 2 761 642.92 |  |  |

**APPENDIX 2: MCWAP1**

| **NAME OF A SUPPLIER/CONTRACTOR** | **DESCRIPTION OF EXTENSION (VO)** | **MOTIVATION PROVIDED** | **APPROVED CONTRACT VALUE** | **EXTENSION VALUE (VO)** | **WHO GRANTED APPROVAL** | **WAS THE MATTER REFERRED TO NATIONAL TREASURY AND WHAT WAS THE OUTCOME ( REASONS FOR APPROVAL OR DECLINE)** |
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| Aveng Grinaker LTA and Umbutho JV. for the construction of the Mokolo Crocodile Water Augmentation Project Phase 1 | VO 48 Repair of Servitude Due To Rain Damage During Defects Notification Period | The change was due to the intermittent rain that fell in the project servitude in 2017, which resulted in substantial erosion damage during the Defects Notification Period. |  R 639 563 263.40 | R 8 000 000,00 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
| **TOTAL** |  |  |  | **R 8 000 000,00** |  |  |
| Mokolo Crocodile Consultants for the Design and Construction Supervisionof the Mokolo Crocodile (MCC) Water Augmentation Project Phase 1 | VO 37 Technical Support to DWS for Mokolo Crocodile Water Augmentation Project Phase 2 | The change came as a request from DWS to TCTA for technical support to their Mokolo Crocodile Water Augmentation Project Phase 2, by using MCC. MCC assisted DWS in the initial MCWAP 2 feasibility study, before it was stopped. When MCWAP 2 resumed, MCC were implementing MCWAP 1 and it was quick to mobilise them and they had institutional knowledge of MCWAP 2 | R 424 048 673,00 | R 6 000 000,00 | Executive Manager PMID (as per DOA) | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress |
| **TOTAL** |  |  |  | **R 6 000 000,00** |  |  |
| **GRAND TOTAL** |  |  |  | **R 14 000 000,00** |  |  |

**APPENDIX 3: ORWRDP 2C**

| **NAME OF A SUPPLIER/CONTRACTOR** | **DESCRIPTION OF EXTENTION (VO)** | **MOTIVATION PROVIDED** | **APPROVED CONTRACT VALUE** | **EXTENTION VALUE (VO)** | **WHO GRANTED APPROVAL** | **WAS THE MATTER REFERRED TO NATIONAL TREASURY AND WHAT WAS THE OUTCOME ( REASONS FOR APPROVAL OR DECLINE)** |
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| Basil Read | Claim 38: 2014 General Election | Finalization of previous claim 38. On 21 February 2014, Government proclaimed 7 May 2014 as the date for the National Elections. On 25 April 2014, the Contractor notified the Engineer of his intention to claim Extension of the Time for Completion because the newly declared election-day and public holiday was likely to delay his work. | R 1 398 608 649,56 | R 252 991,27 |  Determined by Engineer, as per contract | Claim was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the claim |
| Claim 38.1: Municipal election 2016 | On 8 July 2016, the Government gazetted 3 August 2016 as a public holiday on which the Municipal Elections would be held. On 15 August 2016, the Contractor notified the Engineer of his intention to claim extension of the Time for Completion (EoT) because the newly declared election-day and public holiday was likely to delay his work.  | R 1 600 483,08 |  Determined by Engineer, as per contract | Claim was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress |
| Claim 46: Pipeline community disruption during 2015 | Finalization of previous claim 46. Contractor's Claim No 46 is for an Extension of Time (EoT) for Completion and associated costs for delays caused by community protest actions that occurred during the period 1 January 2015 to 31 December 2015. The delays experienced were general, widespread stoppages due to the community preventing access onto the Site. | R 24 870,64 |  Determined by Engineer, as per contract | Claim was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the claim |
| Claim 46.1: Community disruption pump station 2015 | The Contractor's Claim 46.4 submitted 7 November 2017was for costs associated with delays caused by community protest actions (community disruption) that occurred at the Steelpoort pump station during 2016. | R 2 439 724,10 |  Determined by Engineer, as per contract | Claim was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress |
| Claim 46.3: 2016 and 2017 Pipeline Community disruption | General widespread community disruption during 2016 and 2017 that delayed the pipeline work, resulted in extension of time and additional payment to Contractor. Claim was submitted 20 September 2017 | R 10 074 629,06 | Determined by Engineer, as per contract | Claim was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress |
| Claim 46.4: 2016, 2017 Community disruption pump station | The Contractor's Claim 46.4 submitted 7 November 2017 was for costs associated with delays caused by community protest actions (community disruption) that occurred at the Steelpoort pump station during 2016. | R 1 031 320,55 | Determined by Engineer, as per contract | Claim was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress |
| Claim 48.1: Unforeseeable conditions Steelpoort River | DAB Decision referral 13. The excavation was harder than the Contractor could reasonably have foreseen at the Steelpoort This delayed construction, for which extension of time and additional cost was awarded by the DAB. | R 48 722 000,00 |  Determined by Engineer, as per contract | Claim was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the claim |
| Claim 49: Dwars river unforeseeable conditions | This claim was first submitted on 10 February 2015. The Contractor claimed Extension of Time (EoT) and direct cost on the basis of increased trench depth, including Measures that were required to improve the foundation conditions. | R 2 036 647,29 |  DAB ruling, as per contract dispute resolution process | Claim was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the claim |
| **TOTAL** |  |  |  | **R 66 182 665,99** |  |  |
| **VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work.** |  |  |  | **R 51 036 509,20** |  |  |
| **Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress.** |  |  |  | **R 15 146 156,79** |  |  |
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| Nemai | ECO Contract Extension | Extension of services for the Environmental Control Officer function which was a requirement of the Environmental Authorisation issued by the Department of Environmental Affairs and Tourism.  |  R 2 666 760,00  |  R 2 036 074,00  | EXCO | Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress. |
|   |   |   |   |   |   |   |
| **GRAND TOTAL** |  |  |  | R 68 218 739,99 |  |  |
| **VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work.** |  |  |  | R 51 036 509,20 |  |  |
| **Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress.** |  |  |  | R 17 182 230,79 |  |  |

**APPENDIX 4: AMD-STI**

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| **NAME OF A SUPPLIER/CONTRACTOR**  | **DESCRIPTION OF EXTENTION (VO)** | **MOTIVATION PROVIDED** | **APPROVED CONTRACT VALUE**  | **EXTENTION VALUE (VO)** | **WHO GRANTED APPROVAL** | **WAS THE MATTER REFERRED TO NATIONAL TREASURY AND WHAT WAS THE OUTCOME ( REASONS FOR APPROVAL OR DECLINE)** |
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| AECOM SA (PTY) Ltd: Consultancy Services for the Acid Mine Drainage (AMD) Project  | VO 13-Support for shaft capping and monitoring shafts (WB-CB-EB) | During the construction of the monitoring shafts it was found that some of the shafts had collapsed and new shaft were identified which resulted in additional cost and time. DWS also requested that additional shafts which were not on the list, that they had identified also be capped to further enhance the monitoring of the different basins. This VO was previously approved at R1 090 349,17 and following the finalisation of the account, the actual cost were higher which led to the revision of the VO. | R115 152 451,74 | R13 111,45 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 39 Eastern Basin EIA process for sludge disposal sites | This variation order was to provide for the EIA process for sludge disposal on top of the TSF tailing facility. This VO was previously approved at R1 645 918,43 and following the finalisation of the account the actual cost were higher which led to the revision of the VO. | R7 534,60 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| V0 43 Eastern Ground water protocol | This variation order deals with the additional requirement of the EA to provide a water quality programme to allow for ground water and surface water contamination in the Eastern Basin. This VO was previously approved at R707 345,52 following the finalisation of the account the actual cost was lower which led to the revision of the VO. | -R12 645,97 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 44 Central Basin initial operation supervision | This variation order was to include an additional site supervision of the plant operations during the defects liability period. This VO was previously approved at R3 795 295,91 following the finalisation of the account the actual cost were lower which led to the revision of the VO. | -R724 488,07 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 46 Provisional sum | This variation order was to provide for an external claims specialist when required to help finalise claims. This provisional sum in the contract was for R1 890 000,00 following the finalisation of the account the actual cost were lower which led to the revision of the VO. | -R505 350,00 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 48 Eastern Basin fatal flaw analysis for additional sludge disposal sites | This variation order was to appoint Digby Wells to undertake a fatal flaw analysis of two additional site at Daggafontein. This VO was previously approved at R 541 199.43 following the finalisation of the account the actual cost were lower which led to the revision of the VO. | -R46 964,88 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 49 Eastern Basin sludge disposal preliminary geotechnical investigation and detailed design | This variation order was for the preliminary geotechnical investigation in order to understand the in situ conditions of the proposed sludge disposal facility alternatives as well as the detailed design of the preferred option. This VO was previously approved at R5 116 880,81 following the finalisation of the account the actual cost were lower which led to the revision of the VO. | -R994 453,39 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 50 Eskom substation self build option | This variation order was for the cost associated with implementing a self-build option for the Eskom substation in order to timeously provide power for the eastern basin. This VO was previously approved at R 3 809 307,62 following the finalisation of the account the actual cost were higher which led to the revision of the VO. | R7 119,45 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| Vo 54 Central Basin: preparation of O&M Contract | This variation order accounts for the costs associated with preparing the operations and maintenance contract for Central Basin. This VO was previously approved at R 406 397,86 following the finalisation of the account the actual cost were lower which led to the revision of the VO. | -R16 077,96 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 55 Additional design of the thickener splitter box | This variation order is for the cost incurred in re-designing the thickener splitter box to be in line with the contractors design for the channel. This VO was previously approved at R 423 550,94 following the finalisation of the account the actual cost were lower which led to the revision of the VO. | -R92 537,49 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 57 Eastern Basin extension of construction supervision and commissioning | This variation order is to allow for additional professional services provider costs as a result of the extension of the construction contract duration. This VO was previously approved at R7 036 538,80 following the finalisation of the account the actual cost were higher which led to the revision of the VO. | R24 331,66 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 57A Eastern Basin extension of construction supervision and commissioning | This variation order is to allow for additional professional services provider costs as a result of the contractor's programme extending by an additional month and 25 days. This VO was previously approved at R2 070397,96 following the finalisation of the account the actual cost were lower which led to the revision of the VO. | -R19 808,23 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 58 Hydrogeochemical study (Central Basin) | This variation order is for the costs incurred in undertaking a hydrogeochemical study to identify the source, pathway of the contamination and the sensitivity of the receptors so that action plan for mitigation and site remediation is developed. This VO was previously approved at R236 161,51 following the finalisation of the account the actual cost were lower which led to the revision of the VO. | -R74 766,83 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| VO 59 Preparation of the operations and maintenance documents | This variation order deals with the cost for preparing the operations and maintenance tender documents for the Central and Eastern Basins. This VO was previously approved at R471 058,03 following the finalisation of the account the actual cost were higher which led to the revision of the VO. | R86 959,54 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
| **TOTAL** |   |   |   | -R2 348 036,12 |   |   |
|   |   |   |   |   |   |   |
| CMC-PG Mavundla Eastern Basin Joint Venture. for the construction of the Eastern Basin AMD Phase 1 | VO 95 Prime cost sums | This variation order seeks to omit Prime cost sums which were provided in section 1 of the bill of quantities and were not utilised. | R956 141 123,68 | -R2 500 000,00 | Executive Manager PMID (as per DOA) | National treasury approval was not required |
|   | VO 96A Final Re measurement for final payment certificate  | This variation deals with minor works items instructed by the Engineer that were identified during the construction and commissioning period. | R1 249 044,17 | Executive Manager PMID (as per DOA) | VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work. |
|   | VO 96B Final Payment certificate | This variation order is for the final remeasurement of the day works under the contract and reduces the contract amount | -R1 299 846,50 | Executive Manager PMID (as per DOA) | National treasury approval was not required |
|   | Contractors claim 25 | EOT relating to the late energisation of the substation by Eskom.  | R6 151 060,72 | DAB ruling as per contract dispute resolution process | Claim was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress |
| **TOTAL** |   |   |   | R3 600 258,39 |   |   |
| **VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work.** |  |  |  | -R2 550 802,33 |  |  |
| **Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress.** |  |  |  | R6 151 060,72 |  |  |
|  |  |  |  |  |  |  |
| **GRAND TOTAL** |   |   |   | R1 252 222,27 |   |   |
| **VO was initiated prior to NT notice and as such it was not required to obtain NT approval prior to proceeding with the work.** |  |  |  | -R4 898 838,45 |  |  |
| **Work was initiated before obtaining NT approval. NT does not approve ex post facto, condonation process is in progress.** |  |  |  | R6 151 060,72 |  |  |