



Civil - Hardstand Stage 1 (Hardstand and Auxiliary Pads)

Inspection and Test Plan - ITP

SECTION 1 - GENERAL					
Client:		Asset		ITP Template No.: ZENT-ITP-7022	Revision: 0
Project Name:		Area		Prepared By: Lachlam A.	Prepared Date: 21/11/2023
Project Number:		Discipline Civil	Component ITP - Civil - Hardstand Stage 1	Location	Approved By: Approved Date:

SECTION 2 - CLOSE OUT SIGNATURE (ZENVIRON ONLY)			
Name:	Position:	Signature:	Date:
Comments:			

SECTION 3 - LEGEND	
Term	Description
REVIEW	An Activity which is verified by examination of documentary evidence that inspection/tests have been satisfactorily conducted
WITNESS	Activity is to be witnessed by Zenviron Advance notification mandatory Activity can proceed once the minimum notification period has elapsed
HOLD POINT	Activity is to be witnessed by Zenviron Advance notification mandatory Hold point can only be waived formally in writing

SECTION 4 - PRELIMINARY										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
4.1	Design drawings, project specifications.			Documents controlled through document management system.	N/A	WITNESS				
4.2	Survey and Setout			Control point survey by registered surveyor. Visual inspection of control point/s. Survey equipment spot checked for calibration	N/A	WITNESS				
4.3	Orientation and Layout			Confirm the survey setout aligns with the hardstand typical arrangement proposed for the turbine. Hardstand Layout for WTG-[] is []	N/A	REVIEW				

SECTION 5 - MATERIAL APPROVALS										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS

5.1	Pavement Base Course Material Conformance			ZX115-REP-0201 Earthworks, Roads and Drainage Specification; - Particle Size Distribution - CBR - Atterberg Limits - Wet/Dry Strength Variation	NATA Test Reports	REVIEW				
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SECTION 6 - CONSTRUCTION PROCESS - HARDSTAND AND AUXILIARY STRIP SOIL

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
6.1	Clear and Grub			Area cleared of all refuse, artificial and deleterious materials. Consult with landowner prior to removing any fencing or gates Ensure CHMP & EMP are adhered too	N/A	WITNESS				
6.2	Topsoil Stripping			Strip topsoil to a depth required to remove all topsoil from the footprint area Ensure the area is self draining Ensure CHMP & EMP are adhered too Stockpiles are suitably managed	N/A	WITNESS				
6.3	Temporary ERSED Controls			Protection measures in line with ZX115-REP-0201 Earthworks, Roads and Drainage Specification and Typical Drawings Ensure CHMP & EMP are adhered too	N/A	HOLD POINT				

SECTION 7 - CONSTRUCTION PROCESS - HARDSTAND SUBGRADE AND CONDITIONING

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
7.1	Earthworks Foundation			Test results obtained from the founding layer compliant to ZX115-REP-0201 Earthworks, Roads and Drainage Specification - DCP	DCP Field Results Location plan of soft, wet or unsuitable material including replacement methodology.	HOLD POINT				
7.2	Structural Fill/ Rock Fill Embankment (Where Required)			Test results and/ or proof roll records obtained for the fill layers compliant to ZX115-REP-0201 Earthworks, Roads and Drainage Specification - Compaction - Density - OMC	NATA Test Report (Where Required) ZX115-ITR-7108 - Proof Roll	HOLD POINT				
7.3	Rock Subgrade (Where Required)			Proof roll records obtained Inspection by Geotechnical/ Design Engineer	ZX115-ITR-7108 - Proof Roll Location plan of rock subgrade material where pavement thickness has been reduced.	HOLD POINT				
7.4	Finished Subgrade			Test results and proof roll records obtained for the finished layer compliant to ZX115-REP-0201 Earthworks, Roads and Drainage Specification - Compaction - Density - OMC	NATA Test Report ZX115-ITR-7108 - Proof Roll	HOLD POINT				

SECTION 8 - CONSTRUCTION PROCESS - HARDSTAND BASE COURSE PLACEMENT

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
8.1	Base Pavement			Test results and proof roll records obtained for the finished layer compliant to ZX115-REP-0201 Earthworks, Roads and Drainage Specification - Compaction - Density - OMC - Plate Load	NATA Test Report Plate Load Test Results ZX115-ITR-7108 - Proof Roll Inspection	HOLD POINT				

SECTION 9 - CONSTRUCTION PROCESS - AUXILARY PADS SUBGRADE AND CONDITIONING

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
9.1	Earthworks Foundation			Test results obtained from the founding layer compliant to ZX115-REP-0201 Earthworks, Roads and Drainage Specification - DCP	DCP Field Results Locaion plan of soft, wet or unsuitable material including replacement methodology	HOLD POINT				
9.2	Structural Fill/ Rock Fill Embankment (Where Required)			Test results and/ or proof roll records obtained for the fill layers compliant to ZX115-REP-0201 Earthworks, Roads and Drainage Specification - Compaction - Density - OMC	NATA Test Report (Where Required) ZX115-ITR-7108 - Proof Roll	HOLD POINT				
9.3	Rock Subgrade (Where Required)			Proof roll records obtained Inspection by Geotechnical/ Design Engineer	ZX115-ITR-7108 - Proof Roll Locaion plan of rock sungrade material where pavement thickness has been reduced.	HOLD POINT				
9.4	Finished Subgrade			Test results and proof roll records obtained for the finished layer compliant to ZX115-REP-0201 Earthworks, Roads and Drainage Specification - Compaction - Density - OMC	NATA Test Report ZX115-ITR-7108 - Proof Roll	HOLD POINT				

SECTION 10 - CONSTRUCTION PROCESS - AUXILARY PADS BASE COURSE PLACEMENT

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
10.1	Base Pavement			Test results and proof roll records obtained for the finished layer compliant to ZX115-REP-0201 Earthworks, Roads and Drainage Specification - Compaction - Density - OMC - Plate Load	NATA Test Report Plate Load Test Results ZX115-ITR-7108 - Proof Roll	HOLD POINT				

SECTION 11 - CONSTRUCTION PROCESS - LONGITUDINAL DRAINAGE

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION	REQUIREMENT/ STANDARD /	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION	RECEIVED AND ANALYSED BY: ZENVIRON			
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ITEM	ACTIVITY/ TASK DESCRIPTION	FREQUENCY	SPECIFICATION	ACCEPTANCE CRITERIA	(RECORDS/EVIDENCE)	TYPE	NAME	SIGNED	DATE	COMMENTS
11.1	Excavation			Levels as required in IFC Model	N/A	WITNESS				
11.2	Erosion Controls			Turn out drains installed as required in IFC Model Scour protection in line with ZX115-REP-0201 Earthworks, Roads and Drainage Specification and Typical Drawings	N/A	WITNESS				

SECTION 12 - COMPLETION AND HANDOVER										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
12.1	Final Trim			ZX115-REP-0201 Earthworks, Roads and Drainage Specification ZX115-REP-0206 - Balance of Plant Works Maintenance Manual Typicals Design Drawings	N/A	WITNESS				
12.2	Redline markup of Construction Drawings			In line with ZX115-REP-0201 Earthworks, Roads and Drainage Specification and BMS-WIN-1024 - Document Red-Line Markup	Redline Markup in Master Drawing Folder	REVIEW				
12.3	Generate Punch List			Generate specific area/scope Punch List and transfer the open items to the Punch List Master Register	BMS-TMP-0044 Punch List record	REVIEW				