

## **Inspection and test plan – Bulk Earthworks**

Proje	ct no. <u>CC0399</u>		Project n	ame <u>MREH BESS</u>	[	Date		SGJV A	pprova	ıl		
ITP no	o. CC0399-I7	ΓΡ-003 I	Revision	no. A Revision date	15.01.2024 <b>La</b> y	er thickness						
Plant	and equipment use	ed l	Excavato	r, Dozer, Moxy, Stabiliser, G	rader, Roller, Tandems,	Trucks & Trailer	rs, Dozer					
Lot no	o		Location	(chainages, detailed desc	ription or marked up pl	an)						
Attach	Dockets, Certificate	es and QA	Documer	nts to ITP								
							\	/erify of	accepta	nce by		Remarks / record
							Symal	Infrastru	icture	SG	JV	(eg. test reports,
Item no.	Activity	Re	ef docs	Acceptance criteria	Acceptance	Freq	Key	Resp	Sign Date	Key	Sign date	certificates, checklist etc)
	1.0 Prelin	ninaries										
1.1	Determine lot size		N/A	What is the lot size?	m²	Prior to start of Works	S	SE		S		□ Lot Map
1.2	Survey set-out	IF	FC Dwgs	Is the most current survey file what the team is working to and has the work area been set out for line and level?	□ Yes □ No □ N/A	Each lot & Each possession	W	SE		S		Photos
1.3	Water management		EMP	Where necessary, have batters been rounded and catch drains constructed to allow for potential surface runoff during the course of excavation?	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		S		Photos
1.4	Clearing		CC0399- ITP-002	Has the area been cleared and grubbed in accordance with ITP-002?	□ Yes □ No □ N/A	Prior to start of Works	W	SE		S		Photos
If in <b>c</b> ı If in <b>fi</b> l	area in cut / fill / both?  ut proceed to step 2.0 and I please strike out section  oth proceed to step 2.0 a	n 2.0 and prod is well as sect	ceed to section 3.0	tion 3.0								
2.1	Excavation material classification	PN (	RH/00/P/0 0- M/SPC/00 03 rev 3 page 53	Has the material being excavated been inspected with category agreed upon by Superintendent? Tick category below:	□ Yes □ No □ N/A	Prior to start of Works	W	SE		S		Test reports



						Verify of acceptance by				Remarks / record	
						Symal Infrastructure SG			JV	(eg. test reports,	
Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Freq	Key	Resp	Sign Date	Key	Sign date	certificates, checklist etc)
			☐ Topsoil ☐ Unsuitable material ☐ Fill material ☐ Other:								
2.2	Stockpile	N/A	Has the stockpile location been approved by SGJV.	☐ Yes ☐ No ☐ N/A	Prior to start of Works	Н	SE		Н		SGJV approved stockpile plan
2.3	Subgrade preparation	MRH/A0/B/ 00- CV/DWG/00 40	Has the cut surface been trimmed to an even surface free from lose material?  Have surface levels been checked to avoid over excavation?	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		S		Test reports/as- built survey
2.4	Lime mix	MRH/A0/B/ 00- CV/DWG/00 40	Has lime demand testing been completed and submitted?	☐ Yes ☐ No ☐ N/A	Prior to starting	н	SE		Н		☐ Test reports
2.5	Lime stabilisation	MRH/A0/B/ 00- CV/DWG/00 40	Has the prepared subgrade been lime stabilised as per the IFC design?	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		W		Photos/As-built report
2.6	Compaction	IFC drawing MRH/A0/B0 0- CV/DWG/00 08	Compaction Scale: minimum 3 tests per lot, or 1 test per 1000m2  Has the stabilised subgrade been adequately compacted achieving 100 SDD for subgrade.  Is the subgrade material within +/- 2% of the optimum moisture content.  Has a minimum 3% CBR been achieved?	□ Yes □ No □ N/A	Each lot & Each possession	W	SE		S		☐ Test reports

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							Verify of acceptance				Remarks / record	
						Symal I	nfrastru	cture	SG	JV	(eg. test reports, certificates, checklist etc)	
Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Freq	Key	Resp	Sign Date	Key	Sign date		
2.7	Test Rolling	MRH/A0/B/ 00- CV/DWG/00 40	Does the layer withstand test rolling without visible deformation or springing? List Attendees:	☐ Yes ☐ No ☐ N/A  If 'no' please see below.  If 'yes' please proceed.	Each lot & Each possession	н	SE		н		☐ Proof Roll Inspection Checklist	
	Identification of soft wet or unstable material		What quantity of soft, wet, or unstable material is present?	m² m³	As required	w	SE		S		Photos	
Treatment of unsuitable material		N/A	Has rectification process been submitted to SGJV for review. What was the rectification process used.	□ Yes □ No □ N/A	As required	W	SE		S		Acconex Correspondence	
	3.0 Bulk earthw	orks - Fill										
3.1	Fill material classification	MRH/00/P/0 0- PM/SPC/00 03 page 53	Has the material to be used as fill been approved for use?	□ Yes □ No □ N/A	Prior to start of Works	S	SE		н		Material Acceptance correspondence/C ertificate	
3.2	Stripped surface - test rolling (If applicable)	MRH/A0/B/ 00- CV/DWG/00 40	Does the stripped surface to be filled withstand test rolling without visible deformation or springing? List Attendees:	☐ Yes ☐ No ☐ N/A  If 'no' please see below.  If 'yes' please proceed to item  3.2	Each lot & Each possession	н	SE		н		☐ Proof roll checklist	

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Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Freq	Key	Resp	Sign Date	Key	Sign date	certificates, checklist etc)	
Identification of soft wet or unstable material		N/A	What quantity of soft, wet or unstable material is present?	m² m³	As required	Н	SE		S		Photos /Visual check	
Treatment of unsuitable material		N/A	What rectification process is to be undertaken	□ Yes □ No □ N/A	As required	S	SE		S		Acconex Correspondence /Approval from SGJV	
3.3	Preparation of surface	MRH/A0/B/ 00- CV/DWG/00 40	Has adequate water been added to the stripped surface to ensure adhesion to the next layer?	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		S		Photos	
3.4	Fill Placement	IFC drawing MRH/A0/B0 0- CV/DWG/00 08	Has fill been placed in maximum 300mm and minimum 100mm compacted layer thickness?  Rock in the fill should be less than 75 mm.  - Fill should be free of clay and free from organic.	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		S		Photos	
3.5	Moisture	MRH/A0/B/ 00- CV/DWG/00 40	Has the material maintained at optimum moisture content (within +/- 2% of optimum moisture), with additional water being added if required during compaction?	□ Yes □ No □ N/A	As required	S	SE		S		Test Reports	
3.6	Lime mix	IFC Dwgs MRH/A0/B/ 00- CV/DWG/00 40	Has mix demand testing been completed and submitted?	☐ Yes ☐ No ☐ N/A	Once	н	SE		Н		☐ Test reports	
3.7	Lime stabilisation	MRH/A0/B/ 00- CV/DWG/00 40	Has the prepared subgrade been lime stabilised as per the IFC design?	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		W		Photos/As-built report	

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Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Freq	Key	Resp	Sign Date	Key	Sign date	certificates, checklist etc)	
3.8	Compaction	IFC drawing MRH/A0/B0 0- CV/DWG/00 08	Compaction Scale: minimum 3 tests per lot, or 1 test per 1000m2  Has the stabilised subgrade been adequately compacted achieving 100% SDD for subgrade.  Is the subgrade material within +/- 2% of the optimum moisture content.  Has a minimum 3% CBR been achieved?	□ Yes □ No □ N/A	Each lot & Each possession	W	SE		S		☐ Test reports	
3.9	Test Rolling	MRH/A0/B/ 00- CV/DWG/00 40	Does the layer withstand test rolling without visible deformation or springing? List Attendees:	☐ Yes ☐ No ☐ N/A  If 'no' please see below.  If 'yes' please proceed	Each lot & Each possession	н	SE		Ι		☐ Proof Roll Inspection Checklist	
Identification of soft wet or unstable material		IFC Dwgs	What quantity of soft, wet or unstable material is present?	m²	As required	S	SE		S		Photos	



Verify of acceptance							nce by		Remarks / record					
	Symal Infrastru						rastructure		JV	(eg. test reports,				
Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Freq	Key	Resp	Sign Date	Key	Sign date	certificates, checklist etc)			
Treatn	nent of unsuitable material	IFC Dwgs	Has rectification process been submitted to SGJV for Review? What was the rectification process used?	□ Yes □ No □ N/A	As required	Н	SE		S		Photos			
	4.0 Conformance	check												
4.1	Width and alignment	IFC Dwgs	Has the pavement been constructed at the correct width and alignment as detailed in the construction drawings?	☐ Yes ☐ No ☐ N/A	Once	W	SE		Н		☐ As built report			
4.2	Subgrade level and shape	IFC Dwgs	Has the prepared subgrade been surveyed in accordance with and verifying specified requirements? Is the subgrade within +/- 20mm of design surface.	□ Yes □ No □ N/A	As required	W	SE		Н		☐ As built report			
	Comments:													
Works	Works complete (signer SS) Date works complete													
			Date lot closed	NCR/s no. raised										

Responsibility (Resp.) Key: **PM** - Project Manager, **PE**-Project Engineer, **SE**- Site Engineer, **CS**-Civil Superintendent, **SS**-Site Supervisor, **SV**-Surveyor, **CR**-Client Representative **Inspection key: W** – Witness, H – Hold Point, **S** - Surveillance