



COMMENTS RESPONSE SHEET



OVERALL APPROVAL CODE :	1 - Accepted - Work May Proceed	OVERALL STATUS CODE :	Closed
DCP #		Date Received :	22-Oct-20
Document/Drawing No.	C0308-502-GCX-MT-00072	Comments Issued On :	22-Oct-20
Document/Drawing Title	Material Submittal for MSE Wall System-VSL Middle East LLC		

Note:
Venki Perumal (VPe), Tasos Papapostolou (TPa) / Thaeer Mahdi (THm)

No.	Section/ Page/ Part No.	Comments	Doc. Rev.	By	Code	Response	By	Status
1	General	We note that the material submission is specifically for: - Friction Ties (Maccaferri India) and Composite Liner (UK) - HDPE Pad (Sabin Plastic UAE) - Geotextile (Alyaf Geotextile KSA) There is no information on the composite liner. In addition, there is no information on the bituminous paint for the protection of the concrete panels. The material submission for concrete mix design, moulds, reinforcement and soil for backfilling shall be done separately.	AA	TPa	1	Composite Liner is a member of Maccaferri Group. VSL has exclusive friction ties supplier. Production factory is in India, head office is in UK. - As per DCP3 -installed design drawing all Panels in contact with soil shall be given two coat of protective coating and as directed by Engineer, only approved substructure waterproofing material will be used). - Concrete Mix design & Steel Reinforcement approved material will be used only. - Soil backfilling will be submitted separately.	THm	Closed
2	General	As per Contract, the MSE Walls on the project will be designed by the Supplier (VSL), however to date no design has been submitted. The approval is subject to compliance with the final Design, Shop Drawings and Specifications to ensure satisfactory performance of the works.	AA	TPa	2	Please refer DCP3-Calculation MSE Wall Panel General Details and Drawings Re.no. C0308-502-ECE-CA-30100-AA accepted code-2. / Design drawing C0108-502-ECE-DG-30100-AA	THm	Closed
3	General	Contractor to obtain necessary approval of MSE Wall patterns as per Exhibit D, Part 2, Bridge Aesthetic Guidelines, prior to the procurement of the liner. In addition, please provide information on the liner, will it be submitted in a different material submission?	AA	VPe	2	Noted. Liner shop drawings will be submitted separately. Material will be steel or GRP. In case of GRP, material data sheet will be submitted separately.	THm	Closed
4	Section 3 (Compliance Statement & Mix Design)	Please revise the title of the Section by removing the "Mix Designs". The submission is related only to the materials listed on Comment No.1 above.	AA	TPa	2	Noted & completed.	THm	Closed
5	Section 6 (Test Reports)	Please provide latest test report for the friction ties, the one enclosed is from 2017.	AA	TPa	2	Please note NTRPEP test report (part of initial sub) has been issued in August 2018 and has expiration date August 2024. <small>Report Issued: August 2018 Report Expiration Date: August 2024 Next Quality Assurance Update Report: 2024</small>	THm	Closed
6	Section 6 (Test Reports)	Please provide latest test report for the HPDE pads, the one enclosed is from 2019.	AA	TPa	2	Noted. Please find attached (CRS Response).	THm	Closed
7	Section 6 (Test Reports)	Please provide latest test report for the geotextile, the one enclosed is from 2018.	AA	TPa	2	Noted. Please find attached (CRS Response).	THm	Closed
8	Section 8 (VSL System & Technical Data Sheet)	The proposed geosynthetic friction reinforcement shall have a CE certificate or any other similar certificate (e.g. BBA from UK, ETA).	AA	TPa	2	Noted. Please find attached BBA certificate (CRS Response).	THm	Closed
9	Section 8 (VSL System & Technical Data Sheet)	Please include the Technical Data Sheet for the bearing pads.	AA	TPa	2	Noted. Please find attached.	THm	Closed
10	Section 8 (VSL System & Technical Data Sheet)	Please include the Technical Data Sheet for the geotextile.	AA	TPa	2	Please find attached test report (CRS Response).	THm	Closed
11	Section 8 (VSL System & Technical Data Sheet)	All joints between concrete facing panels shall be further protected by a strip of geofabric, thermally bonded non-woven needle punch polypropylene of weight 150g/m2 minimum, installed on the inside face of the panels along all of the joints, horizontal and vertical, so as to prevent any leakage of the fine particles of the fill material at the back of the facing but allowing the passage of water from behind the panels. Please confirm.	AA	TPa	1	Confirmed, as noted.	THm	Closed
12	General	Product conformity / test certificate shall be provided with delivery of material on site.	AA	TPa	1	Noted.	THm	Closed
13	Samples	Please provide samples of the materials of the submission that will remain with the Engineer.	AA	TPa	1	As noted. Materials samples will be provided.	THm	Closed

Disclaimer: The review and the comments made herewith are incomplete and the FMC/ER reserve the right to add/change comments made here once all the documents related to and impacting on the document reviewed herewith are submitted and reviewed. This includes but is not limited to: Interface definition, scope of work, requirement capture and links into DOORS/CP2 to ensure traceability of requirements, PIA requirements incorporation, capital cost estimate, Value engineering, stakeholder liaison and NOCs.