

Action Taken Report on the Comments from Peer Reviewer on “Geological Report on Reconnaissance Survey (G-4) For REE and Associated Minerals in Langmipi-Laching Thing area, District- West Karbi Anglong, Assam”		
Sr. No	Comments from Peer Reviewer	Action Taken on the Comments
1	Characterisation component is limited (few petrography/SEM/EPMA samples). For a low-concentration target in a migmatite–metamorphic terrain, mineral-phase characterisation and the REE-concentrating process should be the primary aim of G-4 (cf. Das & Gantait, 2020; Kumar et al., 2022).	Noted with appreciation. The G-4 reconnaissance was completed as per the sanctioned quantum, whose stage objective is delineation of the anomalous zone. Revised GR integrates petrography, mineragraphy and geochemistry to establish the REE association and its anatectic control.
2	Rock nomenclature is not explicitly included in the petrographic details table (e.g., MLP-2, MLP-5, MLP-7). Suggest including it in Annexure VII	Complied. Rock Nomenclature has been added to the petrographic table (Annexure VII)
3	REE enrichment is associated with melting during high-grade metamorphism; 20 of 50 bedrock samples exceed 500 ppm Σ REE+Y (Peg/QF veins 5, granite gneiss 3, migmatite 7, augen gneiss 5). Detailed petrography + SEM/EPMA of these samples is the logical next step.	Noted. Detailed petrography + SEM/EPMA will be taken up in next level of exploration if formulated in the potential areas.
4	Regional trend is stated as NE-SW (7.1.2), but the plates show a dominant E-W trend. Please check and describe the trend in statistical terms.	Complied. 7.1.2 and 7.3 revised: the regional NE-SW grain is retained, while the block-scale foliation is now described as dominantly E-W to ENE-WSW.
5	In 7.1.7 the foliation is related to the pop-up structure; however, the pop-up is very young whereas the foliations are at least ~500 Ma.	Complied. 7.1.7 revised to state that the Precambrian–early Palaeozoic ($\geq$ ~500 Ma) foliation is genetically unrelated to the young Neogene pop-up uplift (~5.2–4.9 Ma; Govin et al., 2018; Bilham & England, 2001); the uplift elevated and locally reactivated, but did not create, the older fabric.
6	On page 47 the data do not represent a uniform group — not all samples show a positive Eu anomaly — probably because migmatite sampling includes variable proportions of melt and restite; also reflects limited petrographic characterisation.	The interpretation of the REE chondrite-normalized plot is revised by acknowledging its variable nature among the migmatite samples.

7	Incorporate the updated regional geological / geochronological framework and supporting references (Shillong Plateau pop-up; AMGC lithologies; multiple orogenies; Cambrian magmatism).	Complied. 7.1 updated with the current tectono-thermal framework and geochronology (events at ~1600, ~1000 and ~500 Ma; Cambrian high-silica magmatism) and the Reviewer's references (Bilham & England, 2001; Govin et al., 2018; Chatterjee et al., 2007, 2011; Dwivedi et al., 2020; Borah et al., 2023; Neogi et al., 2023).
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