

MINERAL EXPLORATION AND CONSULTANCY LIMITED

(A GOVT OF INDIA ENTERPRISE- CPSE MINIRATNA -I)

PRIMARY VERSUS EXTERNAL CHECK SAMPLE ANALYSIS

Kaphalda Block (G-4), District Dehradun, Uttarakhand

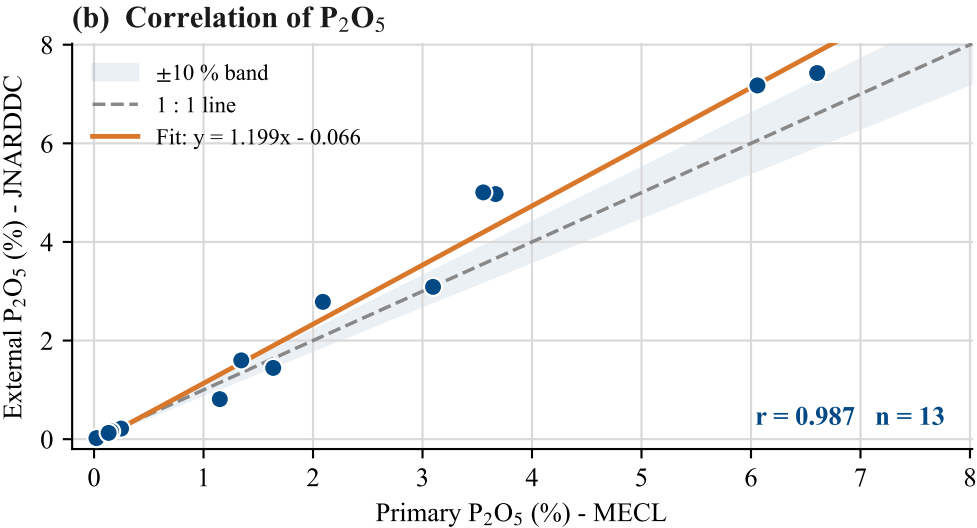
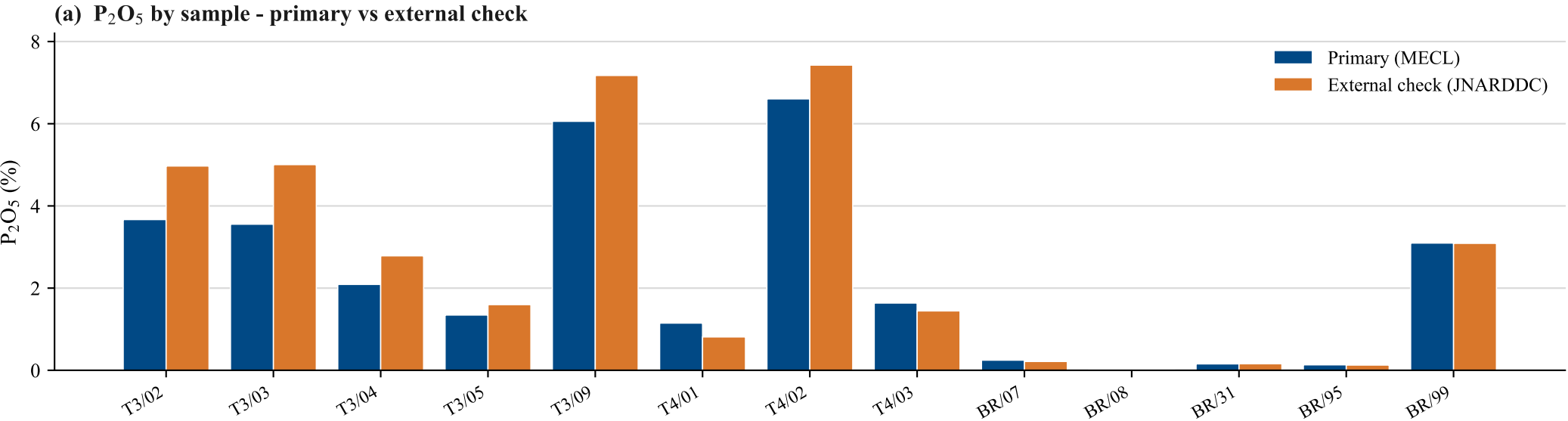
Table A. Sample-wise comparison of P₂O₅ (%)

Sl.	Primary Sample ID	Check code	P2O5 Primary	P2O5 External	Diff. (Ext-Prim)	Rel. Diff %
1	T3/02	ABL/ECH/01	3.668	4.971	+1.303	30.2
2	T3/03	ABL/ECH/02	3.555	5.005	+1.450	33.9
3	T3/04	ABL/ECH/03	2.090	2.785	+0.695	28.5
4	T3/05	ABL/ECH/04	1.345	1.598	+0.253	17.2
5	T3/09	ABL/ECH/05	6.059	7.174	+1.115	16.9
6	T4/01	ABL/ECH/06	1.148	0.812	-0.336	34.3
7	T4/02	ABL/ECH/07	6.604	7.426	+0.822	11.7
8	T4/03	ABL/ECH/08	1.636	1.445	-0.191	12.4
9	BR/07	ABL/ECH/09	0.247	0.215	-0.032	13.7
10	BR/08	ABL/ECH/10	0.022	0.022	-0.000	-
11	BR/31	ABL/ECH/11	0.156	0.159	+0.003	2.0
12	BR/95	ABL/ECH/12	0.133	0.127	-0.006	4.7
13	BR/99	ABL/ECH/13	3.096	3.089	-0.007	0.2

Table B. Inter-laboratory quality-assurance statistics (all radicals, n = 13)

Radical	Primary mean %	External mean %	Mean bias	MARD %	r
P2O5	2.29	2.68	+0.390	17.1	0.987
CaO	8.94	7.44	-1.503	27.8	0.993
MgO	3.96	4.24	+0.277	18.9	0.968
MnO	0.07	0.05	-0.007	13.9	0.987
SiO ₂	47.97	54.86	+6.890	14.0	0.991
Al ₂ O ₃	12.03	11.00	-1.036	13.0	0.957
Fe ₂ O ₃	6.96	4.82	-2.147	38.1	0.991
LOI	10.80	9.71	-1.097	17.5	0.991

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(c) Inter-laboratory QA statistics (all radicals)

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P2O5	2.29	2.68	+0.390	17.1	0.987
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MgO	3.96	4.24	+0.277	18.9	0.968
MnO	0.07	0.05	-0.007	13.9	0.987
SiO2	47.97	54.86	+6.890	14.0	0.991
Al2O3	12.03	11.00	-1.036	13.0	0.957
Fe2O3	6.96	4.82	-2.147	38.1	0.991
LOI	10.80	9.71	-1.097	17.5	0.991