



We Commit. We Do.
 Portland Works
 PO Box 1143
 Whangarei 0140
 New Zealand
 Phone: +64 9 432 2656
 Fax: +64 9 432 2822
 Email: info@goldenbay.co.nz

CERTIFICATE OF QUALITY

EverPlus (Imported Class F Flyash)



Name of Power Station **Mundra (TATA Power), India**

Testing Laboratory **GBC & Boral Materials Technical Services**

Source of Sampling **Mt Maunganui Service Centre & Eastport Silos**

Grade of Sample **Grade 1**

Issued to: Technical Sales Manager

Test Report No: 18#266

Code	Date of Sampling	Moisture %	Loss on Ignition %	Passing 45 Micron %	Sulphate SO3 * %	Available Alkali * %	Total Alkali (Na2O Equiv) %	Relative Density	Relative Water %	Strength Index %	Chloride * %	Chemical Composition (SiO2 + Al2O3 + Fe2O3)
Mean		0.3	1.6	86.7	0.4	0.5	2.37	2.34	91.4	97.5	0.003	88.1
Standard Deviation		0.1	0.4	1.1	0.2	0.2	0.17	0.02	0.4	2.4	0.002	2.7
Min		0.0	1.0	84.7	0.2	0.3	2.19	2.31	90.8	94.6	0.001	82.2
Max		0.4	2.2	88.6	0.6	0.8	2.70	2.37	92.0	101.0	0.005	92.6
AS/NZS 3582.1-2016		<0.5	< 4.0	> 75	< 3.0						<0.1	> 60%
180730-985	30/07/18	0.2	1.5	87.9	0.2	0.6	2.27	2.31	91.6	99.2	0.003	87.2
180707-844	7/07/18	0.3	1.6	87.6	#	#	2.26	#	#	#	#	87.3
180630-491	30/06/18	0.3	1.5	87.4	0.5	0.3	2.26	2.34	91.6	97.9	0.002	86.9
180629-799	29/06/18	0.2	1.5	88.6	#	#	2.26	#	#	#	#	86.6
180623-386	23/06/18	0.2	1.7	87.5	#	#	2.28	#	#	#	#	87.4
180616-985	16/06/18	0.3	1.7	87.3	#	#	2.23	#	#	#	#	86.4
180601-341	1/06/18	0.2	1.5	87.7	#	#	2.28	#	#	#	#	87.2
180531-085	31/05/18	0.3	1.6	87.1	0.5	0.3	2.24	2.37	91.2	95.8	0.005	85.9
180526-032	26/05/18	0.3	1.6	87.7	#	#	2.24	#	#	#	#	86.8
180519-683	19/05/18	0.3	1.6	87.4	#	#	2.24	#	#	#	#	86.5
180511-189	11/05/18	0.0	1.8	87.7	#	#	2.24	#	#	#	#	86.3
180506-772	6/05/18	0.3	2.2	87.4	#	#	2.30	#	#	#	#	87.0
180430-528	30/04/18	0.3	2.2	85.5	0.2	0.8	2.29	2.32	92.0	94.6	0.004	86.6
180428-449	28/04/18	0.4	2.2	84.7	#	#	2.27	#	#	#	#	85.9
180422-448	22/04/18	0.3	1.9	86.3	#	#	2.35	#	#	#	#	85.9
180414-447	14/04/18	0.4	2.1	85.3	#	#	2.19	#	#	#	#	82.2
180407-625	7/04/18	0.3	1.8	85.6	#	#	2.35	#	#	#	#	89.7
180401-397	01/04/18	0.2	2.2	85.0	#	#	2.40	#	#	#	#	91.8
180330-444	30/03/18	0.3	1.2	87.0	0.6	0.4	2.68	2.32	90.8	96.6	0.001	91.4
180317-660	17/03/18	0.2	1.8	85.7	#	#	2.45	#	#	#	#	89.8
180310-659	10/03/18	0.3	1.2	87.3	#	#	2.67	#	#	#	#	92.5
180303-006	03/03/18	0.3	1.2	86.0	#	#	2.65	#	#	#	#	92.5
180228-089	28/02/18	0.3	1.3	85.4	0.5	0.5	2.70	2.35	91.2	101.0	0.001	92.6
180224-655	24/02/18	0.3	1.0	87.4	#	#	2.69	#	#	#	#	92.6
180217-378	17/02/18	0.3	1.1	85.1	#	#	2.51	#	#	#	#	87.0

* Boral Materials Technical Services, Australia, Nata Accredited Laboratory No: 9968

The Relative Water & Relative Strength Tests used NZS 3122 Type GP cement in the mortars
 The above samples were tested as received in accordance with methods stated in the AS 3583 series.

Total alkali & chemical composition outside the scope of accreditation.
 # No result available at time of certificate issue

This Report must not be reproduced except in full

Jim White

 Jim White
 Quality System Co-ordinator

Date issued: 13/11/18

