

Form 604

Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme BRAVURA SOLUTIONS LTD

ACN/ARSN 164 391 128

1. Details of substantial holder(1)

Name BlackRock Group (BlackRock Inc. and subsidiaries named in Annexures
ACN/ARSN (if applicable) to this form)

There was a change in the interests of the substantial holder on 04 / 11 / 2019

The previous notice was given to the company on 02 / 04 / 2019

The previous notice was dated 29 / 03 / 2019

2. Previous and present voting power

The total number of votes attached to all the voting shares in the company or voting interests in the scheme that the substantial holder or an associate (2) had a relevant interest (3) in when last required, and when now required, to give a substantial holding notice to the company or scheme, are as follows:

Class of securities (4)	Previous notice		Present notice	
	Person's votes	Voting power (5)	Person's votes	Voting power (5)
ord	10,731,433	5.00	14,639,568	6.00

3. Changes in relevant interests

Particulars of each change in, or change in the nature of, a relevant interest of the substantial holder or an associate in voting securities of the company or scheme, since the substantial holder was last required to give a substantial holding notice to the company or scheme are as follows:

Date of change	Person whose relevant interest changed	Nature of change (6)	Consideration given in relation to change (7)	Class and number of securities affected	Person's votes affected
	See Annexure A				

4. Present relevant interests

Particulars of each relevant interest of the substantial holder in voting securities after the change are as follows:

Holder of relevant interest	Registered holder of securities	Person entitled to be registered as holder (8)	Nature of relevant interest (6)	Class and number of securities	Person's votes
	See Annexure B				

5. Changes in association

The persons who have become associates (2) of, ceased to be associates of, or have changed the nature of their association (9) with, the substantial holder in relation to voting interests in the company or scheme are as follows:

Name and ACN/ARSN (if applicable)	Nature of association

6. Addresses

The addresses of persons named in this form are as follows:

Name	Address
Annexure C	

Signature

print name Maria Tricarico

capacity *Authorised Signatory

sign here

date 06 / 11 / 2019

* At a meeting of the Board on 22 November 2013, the Directors resolved to approve the delegation of the preparation and lodgement of substantial shareholder notices on behalf of BlackRock Investment Management (Australia) Limited.

DIRECTIONS

- (1) If there are a number of substantial holders with similar or related relevant interests (eg. a corporation and its related corporations, or the manager and trustee of an equity trust), the names could be included in an annexure to the form. If the relevant interests of a group of persons are essentially similar, they may be referred to throughout the form as a specifically named group if the membership of each group, with the names and addresses of members is clearly set out in paragraph 6 of the form.
- (2) See the definition of "associate" in section 9 of the Corporations Act 2001.
- (3) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
- (4) The voting shares of a company constitute one class unless divided into separate classes.
- (5) The person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
- (6) Include details of:
 - (a) any relevant agreement or other circumstances because of which the change in relevant interest occurred. If subsection 671B(4) applies, a copy of any document setting out the terms of any relevant agreement, and a statement by the person giving full and accurate details of any contract, scheme or arrangement, must accompany this form, together with a written statement certifying this contract, scheme or arrangement; and
 - (b) any qualification of the power of a person to exercise, control the exercise of, or influence the exercise of, the voting powers or disposal of the securities to which the relevant interest relates (indicating clearly the particular securities to which the qualification applies).

See the definition of "relevant agreement" in section 9 of the Corporations Act 2001.
- (7) Details of the consideration must include any and all benefits, money and other, that any person from whom a relevant interest was acquired has, or may, become entitled to receive in relation to that acquisition. Details must be included even if the benefit is conditional on the happening or not of a contingency. Details must be included of any benefit paid on behalf of the substantial holder or its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.
- (8) If the substantial holder is unable to determine the identity of the person (eg. if the relevant interest arises because of an option) write "unknown".
- (9) Give details, if appropriate, of the present association and any change in that association since the last substantial holding notice.

This is Annexure A of 8 pages referred to in form 604 Notice of change of interests of substantial shareholder

06-Nov-19
Date
Maria Tricarico,
Authorised Signatory

5. Consideration

BRAVURA SOLUTIONS LTD (BVS)							
Date of Change	Person whose relevant interest changed	Nature of change (6) / Consideration given in relation to change (7)		CCY	Class and number of securities affected		Person's votes affected
01-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.32	AUD	ORD	1,824	1,824
01-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.32	AUD	ORD	55,857	55,857
01-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.32	AUD	ORD	6,966	6,966
01-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.34	AUD	ORD	497	497
03-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.41	AUD	ORD	34,874	34,874
03-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.41	AUD	ORD	1,210	1,210
04-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.41	AUD	ORD	-16,466	-16,466
04-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.41	AUD	ORD	1,936	1,936
04-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.41	AUD	ORD	6,644	6,644
05-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.09	AUD	ORD	3,676	3,676
05-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.09	AUD	ORD	112,548	112,548
05-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.09	AUD	ORD	14,036	14,036
05-Apr-19	BlackRock Asset Management Canada Limited	in specie	n/a	AUD	ORD	30,073	30,073
08-Apr-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	7,560	7,560
09-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.31	AUD	ORD	-5,993	-5,993
09-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.30	AUD	ORD	726	726
09-Apr-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	-4,188	-4,188
10-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.33	AUD	ORD	35,287	35,287
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.35	AUD	ORD	365	365
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.35	AUD	ORD	11,200	11,200
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.35	AUD	ORD	1,397	1,397
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.35	AUD	ORD	2,124	2,124
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.35	AUD	ORD	65,015	65,015
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.35	AUD	ORD	8,108	8,108
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.37	AUD	ORD	14,152	14,152
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.37	AUD	ORD	433,101	433,101
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.37	AUD	ORD	54,013	54,013
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.37	AUD	ORD	7,105	7,105
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.37	AUD	ORD	228,883	228,883
12-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.37	AUD	ORD	14,253	14,253
12-Apr-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	6,264	6,264

Date of Change	Person whose relevant interest changed	Nature of change (6) / Consideration given in relation to change (7)		CCY	Class and number of securities affected		Person's votes affected
16-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.66	AUD	ORD	-22,478	-22,478
16-Apr-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	8,640	8,640
17-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.67	AUD	ORD	35,192	35,192
18-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.59	AUD	ORD	-16,978	-16,978
23-Apr-19	BlackRock Investment Management (Australia) Limited	in specie	n/a	AUD	ORD	52,348	52,348
23-Apr-19	BlackRock Investment Management, LLC	on mkt buy	5.54	AUD	ORD	3,532	3,532
23-Apr-19	BlackRock Fund Advisors	on mkt buy	5.54	AUD	ORD	38,634	38,634
23-Apr-19	BlackRock Fund Advisors	on mkt buy	5.54	AUD	ORD	25,059	25,059
23-Apr-19	BlackRock Fund Advisors	on mkt buy	5.54	AUD	ORD	15,110	15,110
23-Apr-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	-4,376	-4,376
23-Apr-19	BlackRock Investment Management (Australia) Limited	in specie	n/a	AUD	ORD	-45,364	-45,364
24-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.68	AUD	ORD	32,472	32,472
24-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.67	AUD	ORD	-7,759	-7,759
24-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.68	AUD	ORD	1,936	1,936
24-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.68	AUD	ORD	27,794	27,794
24-Apr-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	9,282	9,282
26-Apr-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	7,072	7,072
30-Apr-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.77	AUD	ORD	968	968
01-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	6.18	AUD	ORD	-16,236	-16,236
03-May-19	BlackRock Advisors (UK) Limited	on mkt buy	5.93	AUD	ORD	262	262
07-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.97	AUD	ORD	-17,713	-17,713
07-May-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	1,701	1,701
07-May-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	2,916	2,916
08-May-19	BlackRock Institutional Trust Company, National Association	in specie	n/a	AUD	ORD	37,830	37,830
08-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.91	AUD	ORD	-16,167	-16,167
08-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.91	AUD	ORD	40,192	40,192
08-May-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	2,232	2,232
08-May-19	BLACKROCK FINANCIAL MANAGEMENT, INC.	in specie	n/a	AUD	ORD	12,582	12,582
09-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	5.88	AUD	ORD	79,419	79,419
09-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	5.88	AUD	ORD	30,170	30,170
09-May-19	BlackRock (Netherlands) B.V.	on mkt buy	5.88	AUD	ORD	3,878	3,878
09-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	5.88	AUD	ORD	37,830	37,830
09-May-19	BlackRock Institutional Trust Company, National Association	on mkt sell	5.88	AUD	ORD	-37,830	-37,830
10-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	5.80	AUD	ORD	13,680	13,680
10-May-19	BlackRock Investment Management, LLC	on mkt buy	5.80	AUD	ORD	5,333	5,333
10-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.80	AUD	ORD	19,639	19,639
10-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.80	AUD	ORD	15,931	15,931
13-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	5.74	AUD	ORD	4,822	4,822
13-May-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	3,108	3,108
14-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.72	AUD	ORD	-9,423	-9,423
14-May-19	BlackRock Fund Advisors	on mkt buy	5.76	AUD	ORD	49,752	49,752
15-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.76	AUD	ORD	-14,130	-14,130
15-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.76	AUD	ORD	40,210	40,210
15-May-19	BlackRock Fund Advisors	on mkt buy	5.74	AUD	ORD	45,909	45,909

Date of Change	Person whose relevant interest changed	Nature of change (6) / Consideration given in relation to change (7)		CCY	Class and number of securities affected		Person's votes affected
15-May-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	3,735	3,735
16-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.82	AUD	ORD	-3,230	-3,230
17-May-19	BlackRock Advisors (UK) Limited	on mkt buy	6.10	AUD	ORD	29,324	29,324
20-May-19	BlackRock (Netherlands) B.V.	in specie	n/a	AUD	ORD	32,282	32,282
20-May-19	BlackRock (Netherlands) B.V.	in specie	n/a	AUD	ORD	-32,282	-32,282
21-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.77	AUD	ORD	-31,207	-31,207
21-May-19	BlackRock Advisors (UK) Limited	on mkt buy	5.77	AUD	ORD	262	262
22-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.83	AUD	ORD	-4,588	-4,588
22-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.84	AUD	ORD	40,927	40,927
22-May-19	BlackRock Advisors (UK) Limited	on mkt buy	5.83	AUD	ORD	262	262
22-May-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	3,780	3,780
22-May-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	7,560	7,560
22-May-19	BlackRock Institutional Trust Company, National Association	in specie	n/a	AUD	ORD	16,045	16,045
23-May-19	BlackRock Investment Management (Australia) Limited	on mkt sell	6.01	AUD	ORD	-17,402	-17,402
23-May-19	BlackRock Fund Advisors	on mkt buy	6.01	AUD	ORD	30,632	30,632
24-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.92	AUD	ORD	44,730	44,730
24-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.92	AUD	ORD	31,831	31,831
24-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.92	AUD	ORD	3,651	3,651
28-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	6.04	AUD	ORD	1,508	1,508
28-May-19	BlackRock Investment Management (UK) Limited	on mkt buy	6.04	AUD	ORD	10,064	10,064
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.04	AUD	ORD	32,924	32,924
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.04	AUD	ORD	8,051	8,051
28-May-19	BlackRock Investment Management (UK) Limited	on mkt buy	6.04	AUD	ORD	25,904	25,904
28-May-19	BlackRock Fund Advisors	on mkt buy	6.04	AUD	ORD	86,591	86,591
28-May-19	BlackRock Fund Advisors	on mkt buy	6.04	AUD	ORD	8,187	8,187
28-May-19	BlackRock Fund Advisors	on mkt buy	6.04	AUD	ORD	2,816	2,816
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.04	AUD	ORD	5,699	5,699
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.04	AUD	ORD	5,009	5,009
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.04	AUD	ORD	7,608	7,608
28-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	6.04	AUD	ORD	945	945
28-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	6.05	AUD	ORD	500	500
28-May-19	BlackRock Investment Management (UK) Limited	on mkt buy	6.05	AUD	ORD	3,357	3,357
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.05	AUD	ORD	10,978	10,978
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.05	AUD	ORD	2,685	2,685
28-May-19	BlackRock Investment Management (UK) Limited	on mkt buy	6.05	AUD	ORD	8,636	8,636
28-May-19	BlackRock Fund Advisors	on mkt buy	6.05	AUD	ORD	28,873	28,873
28-May-19	BlackRock Fund Advisors	on mkt buy	6.05	AUD	ORD	2,730	2,730
28-May-19	BlackRock Fund Advisors	on mkt buy	6.05	AUD	ORD	937	937
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.05	AUD	ORD	1,897	1,897
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.05	AUD	ORD	1,667	1,667
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt buy	6.05	AUD	ORD	2,535	2,535
28-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	6.05	AUD	ORD	312	312
28-May-19	BlackRock Institutional Trust Company, National Association	on mkt sell	6.05	AUD	ORD	-8,795	-8,795
29-May-19	BlackRock Fund Advisors	on mkt buy	6.05	AUD	ORD	21,647	21,647
29-May-19	BlackRock Fund Advisors	on mkt buy	6.05	AUD	ORD	567	567

Date of Change	Person whose relevant interest changed	Nature of change (6) / Consideration given in relation to change (7)		CCY	Class and number of securities affected		Person's votes affected
29-May-19	BlackRock Investment Management (Australia) Limited	on mkt buy	6.03	AUD	ORD	41,362	41,362
29-May-19	BlackRock Advisors (UK) Limited	on mkt buy	6.03	AUD	ORD	524	524
30-May-19	BlackRock Fund Advisors	on mkt buy	5.79	AUD	ORD	35,226	35,226
30-May-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	6,786	6,786
03-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.37	AUD	ORD	83,339	83,339
04-Jun-19	BlackRock Institutional Trust Company, National Association	on mkt sell	4.65	AUD	ORD	-8,288	-8,288
05-Jun-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	6,325	6,325
06-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.91	AUD	ORD	-8,180	-8,180
06-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.91	AUD	ORD	-34,080	-34,080
06-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.91	AUD	ORD	-3,969	-3,969
06-Jun-19	BlackRock Investment Management, LLC	on mkt buy	4.91	AUD	ORD	3,329	3,329
06-Jun-19	BLACKROCK FINANCIAL MANAGEMENT, INC.	in specie	n/a	AUD	ORD	7,946	7,946
11-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.03	AUD	ORD	-15,687	-15,687
11-Jun-19	BlackRock Advisors (UK) Limited	on mkt buy	4.93	AUD	ORD	786	786
12-Jun-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	-2,730	-2,730
13-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.12	AUD	ORD	-35,780	-35,780
13-Jun-19	BlackRock Institutional Trust Company, National Association	in specie	n/a	AUD	ORD	5,330	5,330
14-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.13	AUD	ORD	-66,073	-66,073
14-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.13	AUD	ORD	-9,023	-9,023
14-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.13	AUD	ORD	-66,073	-66,073
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.15	AUD	ORD	54,661	54,661
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.15	AUD	ORD	3,341	3,341
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.15	AUD	ORD	1,652	1,652
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.17	AUD	ORD	272,821	272,821
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.17	AUD	ORD	8,246	8,246
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.17	AUD	ORD	16,677	16,677
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.16	AUD	ORD	4,257	4,257
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.16	AUD	ORD	140,787	140,787
17-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.16	AUD	ORD	8,606	8,606
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.23	AUD	ORD	3,802	3,802
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.23	AUD	ORD	125,722	125,722
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.23	AUD	ORD	7,685	7,685
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.24	AUD	ORD	4,285	4,285
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.24	AUD	ORD	141,706	141,706
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.24	AUD	ORD	8,662	8,662
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.24	AUD	ORD	-21,625	-21,625
18-Jun-19	BlackRock Investment Management, LLC	on mkt sell	5.24	AUD	ORD	-3,329	-3,329
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.23	AUD	ORD	1,885	1,885
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.23	AUD	ORD	62,319	62,319

Date of Change	Person whose relevant interest changed	Nature of change (6) / Consideration given in relation to change (7)		CCY	Class and number of securities affected		Person's votes affected
18-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.23	AUD	ORD	3,809	3,809
19-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.43	AUD	ORD	3,054	3,054
19-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.43	AUD	ORD	100,981	100,981
19-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.43	AUD	ORD	6,173	6,173
19-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.44	AUD	ORD	2,051	2,051
21-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.40	AUD	ORD	38,239	38,239
21-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.40	AUD	ORD	17,147	17,147
21-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt buy	5.40	AUD	ORD	13,174	13,174
25-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.27	AUD	ORD	-62,493	-62,493
25-Jun-19	BlackRock Advisors (UK) Limited	on mkt buy	5.19	AUD	ORD	262	262
25-Jun-19	BlackRock Institutional Trust Company, National Association	on mkt sell	5.19	AUD	ORD	-2,444	-2,444
26-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.04	AUD	ORD	-32,675	-32,675
26-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.04	AUD	ORD	-4,315	-4,315
26-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.04	AUD	ORD	-67,902	-67,902
26-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.04	AUD	ORD	-17,663	-17,663
26-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.04	AUD	ORD	-40,487	-40,487
27-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	5.12	AUD	ORD	-18,043	-18,043
27-Jun-19	BlackRock Fund Advisors	on mkt buy	5.09	AUD	ORD	152,536	152,536
28-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.86	AUD	ORD	-12,677	-12,677
28-Jun-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.86	AUD	ORD	-4,276	-4,276
01-Jul-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	-3,324	-3,324
02-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.66	AUD	ORD	-46,829	-46,829
02-Jul-19	BlackRock Advisors (UK) Limited	on mkt buy	4.66	AUD	ORD	786	786
03-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.70	AUD	ORD	-33,508	-33,508
03-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.70	AUD	ORD	-8,073	-8,073
03-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.70	AUD	ORD	-31,950	-31,950
04-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.44	AUD	ORD	15,126	15,126
09-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.41	AUD	ORD	-12,017	-12,017
09-Jul-19	BlackRock Fund Advisors	on mkt buy	4.41	AUD	ORD	47,977	47,977
10-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.57	AUD	ORD	-18,630	-18,630
10-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.57	AUD	ORD	-13,871	-13,871
11-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.62	AUD	ORD	-6,542	-6,542
12-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.59	AUD	ORD	3,264	3,264
17-Jul-19	BlackRock Fund Advisors	on mkt buy	4.63	AUD	ORD	169,945	169,945
17-Jul-19	BlackRock Advisors (UK) Limited	on mkt sell	4.64	AUD	ORD	-1,310	-1,310
18-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.65	AUD	ORD	-1,918	-1,918
23-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.76	AUD	ORD	-2,360	-2,360
23-Jul-19	BlackRock Advisors (UK) Limited	on mkt buy	4.79	AUD	ORD	262	262
24-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.76	AUD	ORD	-20,386	-20,386
24-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.76	AUD	ORD	-56,532	-56,532

Date of Change	Person whose relevant interest changed	Nature of change (6) / Consideration given in relation to change (7)		CCY	Class and number of securities affected		Person's votes affected
24-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.80	AUD	ORD	1,904	1,904
30-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.97	AUD	ORD	-7,921	-7,921
31-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.91	AUD	ORD	-16,395	-16,395
31-Jul-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.91	AUD	ORD	-40,638	-40,638
01-Aug-19	BlackRock Advisors (UK) Limited	on mkt buy	4.90	AUD	ORD	262	262
02-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.80	AUD	ORD	32,768	32,768
05-Aug-19	BlackRock Advisors (UK) Limited	on mkt buy	4.57	AUD	ORD	524	524
06-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.42	AUD	ORD	-4,583	-4,583
06-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.29	AUD	ORD	72,051	72,051
06-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.45	AUD	ORD	1,904	1,904
07-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.47	AUD	ORD	4,404	4,404
07-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.49	AUD	ORD	-32,619	-32,619
07-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.49	AUD	ORD	-65,238	-65,238
08-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.44	AUD	ORD	-4,700	-4,700
09-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.49	AUD	ORD	2,176	2,176
13-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.39	AUD	ORD	-18,566	-18,566
13-Aug-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	1,395	1,395
14-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.52	AUD	ORD	-24,593	-24,593
14-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.52	AUD	ORD	-66,389	-66,389
15-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.37	AUD	ORD	-14,499	-14,499
19-Aug-19	BlackRock Advisors (UK) Limited	on mkt buy	4.45	AUD	ORD	524	524
20-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.57	AUD	ORD	-4,373	-4,373
20-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.61	AUD	ORD	2,176	2,176
21-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.60	AUD	ORD	-6,127	-6,127
21-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.63	AUD	ORD	816	816
22-Aug-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	-6,052	-6,052
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.60	AUD	ORD	1,360	1,360
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.47	AUD	ORD	1,193	1,193
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.47	AUD	ORD	43,973	43,973
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.47	AUD	ORD	2,533	2,533
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.61	AUD	ORD	3,967	3,967
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.61	AUD	ORD	146,199	146,199
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.61	AUD	ORD	8,420	8,420
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.63	AUD	ORD	2,274	2,274
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.63	AUD	ORD	83,824	83,824
23-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.63	AUD	ORD	4,828	4,828
26-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.45	AUD	ORD	633	633
26-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.45	AUD	ORD	23,337	23,337
26-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.45	AUD	ORD	1,344	1,344

Date of Change	Person whose relevant interest changed	Nature of change (6) / Consideration given in relation to change (7)		CCY	Class and number of securities affected		Person's votes affected
27-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.81	AUD	ORD	20,869	20,869
29-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.79	AUD	ORD	5,867	5,867
30-Aug-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.89	AUD	ORD	1,720	1,720
02-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.79	AUD	ORD	140,474	140,474
03-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.72	AUD	ORD	174,857	174,857
03-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.76	AUD	ORD	1,632	1,632
04-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.56	AUD	ORD	212,466	212,466
04-Sep-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	1,395	1,395
05-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.72	AUD	ORD	-3,232	-3,232
05-Sep-19	BlackRock Advisors (UK) Limited	on mkt sell	4.73	AUD	ORD	-3,144	-3,144
05-Sep-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	-6,052	-6,052
06-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.83	AUD	ORD	-505	-505
06-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.85	AUD	ORD	3,264	3,264
06-Sep-19	BlackRock Advisors (UK) Limited	on mkt sell	4.85	AUD	ORD	-1,572	-1,572
06-Sep-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	-6,052	-6,052
09-Sep-19	BlackRock Investment Management (Australia) Limited	in specie	n/a	AUD	ORD	-80,761	-80,761
10-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.74	AUD	ORD	1,810	1,810
10-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.67	AUD	ORD	2,176	2,176
17-Sep-19	BlackRock Investment Management, LLC	on mkt buy	4.23	AUD	ORD	2,827	2,827
18-Sep-19	BlackRock Fund Advisors	on mkt sell	4.36	AUD	ORD	-57,029	-57,029
19-Sep-19	BlackRock Fund Advisors	on mkt sell	4.30	AUD	ORD	-20,184	-20,184
20-Sep-19	BlackRock Fund Advisors	on mkt sell	4.28	AUD	ORD	-20,183	-20,183
20-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.27	AUD	ORD	1,904	1,904
20-Sep-19	BlackRock Institutional Trust Company, National Association	on mkt buy	4.27	AUD	ORD	62,088	62,088
20-Sep-19	BlackRock Institutional Trust Company, National Association	on mkt buy	4.27	AUD	ORD	22,198	22,198
25-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.31	AUD	ORD	2,448	2,448
25-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.30	AUD	ORD	-12,743	-12,743
30-Sep-19	BlackRock Fund Advisors	on mkt buy	4.09	AUD	ORD	27,131	27,131
30-Sep-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.14	AUD	ORD	2,720	2,720
30-Sep-19	BlackRock Advisors (UK) Limited	on mkt buy	4.14	AUD	ORD	262	262
30-Sep-19	BlackRock Fund Advisors	on mkt buy	4.14	AUD	ORD	35,819	35,819
30-Sep-19	BlackRock Investment Management (UK) Limited	in specie	n/a	AUD	ORD	11,874	11,874
01-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.16	AUD	ORD	272	272
01-Oct-19	BlackRock Investment Management (UK) Limited	in specie	n/a	AUD	ORD	11,886	11,886
04-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.87	AUD	ORD	7,616	7,616
07-Oct-19	BlackRock Advisors (UK) Limited	on mkt buy	3.90	AUD	ORD	262	262
07-Oct-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	-4,365	-4,365
08-Oct-19	BlackRock Investment Management (Australia) Limited	in specie	n/a	AUD	ORD	49,476	49,476
08-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.85	AUD	ORD	6,256	6,256
09-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.87	AUD	ORD	3,124	3,124
09-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.87	AUD	ORD	21,876	21,876
09-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.91	AUD	ORD	13,312	13,312
09-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.91	AUD	ORD	93,182	93,182

Date of Change	Person whose relevant interest changed	Nature of change (6) / Consideration given in relation to change (7)		CCY	Class and number of securities affected		Person's votes affected
09-Oct-19	BlackRock Fund Advisors	on mkt sell	3.90	AUD	ORD	-7,054	-7,054
10-Oct-19	BlackRock Fund Advisors	on mkt sell	3.92	AUD	ORD	-668	-668
11-Oct-19	BlackRock Fund Advisors	on mkt sell	3.85	AUD	ORD	-4,099	-4,099
14-Oct-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	9,824	9,824
14-Oct-19	BlackRock Fund Advisors	on mkt sell	3.89	AUD	ORD	-2,675	-2,675
15-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.75	AUD	ORD	8,066	8,066
15-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.75	AUD	ORD	10,337	10,337
15-Oct-19	BlackRock Advisors (UK) Limited	on mkt buy	3.80	AUD	ORD	262	262
17-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	3.76	AUD	ORD	816	816
17-Oct-19	BlackRock Fund Advisors	on mkt sell	3.76	AUD	ORD	-13,719	-13,719
18-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.03	AUD	ORD	1,360	1,360
24-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt sell	3.80	AUD	ORD	-6,376	-6,376
24-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt sell	3.78	AUD	ORD	-6,493	-6,493
29-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt sell	4.03	AUD	ORD	-4,394	-4,394
29-Oct-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.00	AUD	ORD	1,632	1,632
31-Oct-19	BlackRock Advisors (UK) Limited	on mkt buy	4.11	AUD	ORD	262	262
01-Nov-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	1,435	1,435
01-Nov-19	BlackRock Fund Advisors	in specie	n/a	AUD	ORD	7,130	7,130
01-Nov-19	BlackRock Investment Management (UK) Limited	in specie	n/a	AUD	ORD	153,557	153,557
04-Nov-19	BlackRock Investment Management (Australia) Limited	on mkt buy	4.13	AUD	ORD	1,632	1,632

06-Nov-19

Maria Tricarico,
Authorised Signatory

Date

4. Details of present registered holders

Holder of Relevant Interests	Registered Holder of Securities	Person entitled to be registered as holder (8)	Nature of Relevant Interest (6)	Class and number of Securities	Person's votes	Nature of Association
BlackRock (Netherlands) B.V.	SSB-STATE STREET LONDON		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD32,282	32,282	Subsidiary of BlackRock, Inc.
BlackRock Advisors (UK) Limited	SSB-STATE STREET DUBLIN		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD27,017	27,017	Subsidiary of BlackRock, Inc.
BlackRock Advisors (UK) Limited	STATE STREET BANK, MUNICH, ZURICH BRANCH		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD29,324	29,324	Subsidiary of BlackRock, Inc.
BlackRock Asset Management Canada Limited	SSB-STATE STREET SACRAMENTO		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD30,073	30,073	Subsidiary of BlackRock, Inc.

Holder of Relevant Interests	Registered Holder of Securities	Person entitled to be registered as holder (8)	Nature of Relevant Interest (6)	Class and number of Securities		Person's votes	Nature of Association
BLACKROCK FINANCIAL MANAGEMENT, INC.	STATE STREET BANK		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	83,749	83,749	Subsidiary of BlackRock, Inc.
BlackRock Fund Advisors	SSB-STATE STREET SACRAMENTO		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	2,814,105	2,814,105	Subsidiary of BlackRock, Inc.
BlackRock Institutional Trust Company, National Association	BNYM-THE BANK OF NEW YORK		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	13,237	13,237	Subsidiary of BlackRock, Inc.
BlackRock Institutional Trust Company, National Association	JPM-JP MORGAN CHASE - NEW YORK		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	1,591,442	1,591,442	Subsidiary of BlackRock, Inc.
BlackRock Institutional Trust Company, National Association	SSB-SSB NEW YORK INSTITUTIONAL		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	138,086	138,086	Subsidiary of BlackRock, Inc.
BlackRock Institutional Trust Company, National Association	SSB-STATE STREET BANK, BOSTON		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	6,676	6,676	Subsidiary of BlackRock, Inc.
BlackRock Investment Management (Australia) Limited	HSBC-HSBC SYDNEY		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	313,448	313,448	Subsidiary of BlackRock, Inc.
BlackRock Investment Management (Australia) Limited	JPM-JPM CHASE - SYDNEY		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	7,181,040	7,181,040	Subsidiary of BlackRock, Inc.
BlackRock Investment Management (Australia) Limited	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	768,675	768,675	Subsidiary of BlackRock, Inc.

Holder of Relevant Interests	Registered Holder of Securities	Person entitled to be registered as holder (8)	Nature of Relevant Interest (6)	Class and number of Securities		Person's votes	Nature of Association
BlackRock Investment Management (Australia) Limited	Northern Trust Singapore		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	219,813	219,813	Subsidiary of BlackRock, Inc.
BlackRock Investment Management (Australia) Limited	UBS- UBS- ZURICH		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	211,878	211,878	Subsidiary of BlackRock, Inc.
BlackRock Investment Management (UK) Limited	BNYM-BANK OF NY BRUS		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	95,495	95,495	Subsidiary of BlackRock, Inc.
BlackRock Investment Management (UK) Limited	CITI-CITIBANK INTERNATIONAL PLC (LUXEMBOURG BRANCH		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	34,540	34,540	Subsidiary of BlackRock, Inc.
BlackRock Investment Management (UK) Limited	JPM-JP MORGAN CHASE - NEW YORK		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	177,317	177,317	Subsidiary of BlackRock, Inc.
BlackRock Investment Management, LLC	BNYM-BONY LUXEMBOURG		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	2,827	2,827	Subsidiary of BlackRock, Inc.
BlackRock Investment Management, LLC	BNYM-THE BANK OF NEW YORK		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	57,574	57,574	Subsidiary of BlackRock, Inc.
BlackRock Investment Management, LLC	JPM-JP MORGAN CHASE - NEW YORK		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	ORD	12,127	12,127	Subsidiary of BlackRock, Inc.

Holder of Relevant Interests	Registered Holder of Securities	Person entitled to be registered as holder (8)	Nature of Relevant Interest (6)	Class and number of Securities	Person's votes	Nature of Association
BlackRock Investment Management (Australia) Limited	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	ORD 126,815	126,815	Subsidiary of BlackRock, Inc.
BlackRock Investment Management (Australia) Limited	JPM-JPM CHASE - SYDNEY		Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as responsible entity.	ORD 672,028	672,028	Subsidiary of BlackRock, Inc.

This is Annexure C of 1 page referred to in form 604 Notice of change of interests of substantial shareholder

Maria Tricarico,
Authorised Signatory

06-Nov-19
Date

7. Addresses

The addresses of persons named in this form are as follows:

Name	Address
BlackRock Group	
BlackRock Inc.	55 East 52nd Street New York NY 10055 USA
BlackRock (Netherlands) B.V.	Rembrandt Tower, 17th floor Amstelplein Amsterdam Netherlands
BlackRock Advisors (UK) Limited	12 Throgmorton Avenue. London, EC2N 2DL, United Kingdom
BlackRock Asset Management Canada Limited	161 Bay Street, Suite 2500 Toronto, Ontario M5J 2S1 Canada
BlackRock Financial Management, Inc.	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
BlackRock Fund Advisors	400 Howard Street San Francisco, CA, 94105 United States
BlackRock Institutional Trust Company, National Association	1225 17th Street, Suite 300, Denver, CO 80202 (Colorado, USA)
BlackRock Investment Management (Australia) Limited	Level 26, 101 Collins Street Melbourne VIC 3000 Australia (Victoria, Australia)
BlackRock Investment Management (UK) Limited	12 Throgmorton Avenue London EC2N 2DL United Kingdom
BlackRock Investment Management, LLC	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States