## Form 604 Corporations Act 2001 Section 671B

#### **Notice of Change of Interests of Substantial Holder**

#### To: **PALADIN ENERGY LTD**

#### ACN/ARSN:

#### 1. Details of substantial holder (1)

Name: FMR LLC and its entities listed in Annexure A ("FMR") ACN/ARSN (if applicable)

There was a change in the interests of the substantial holder on
The date of awareness of the change in interests
The previous notice was given to the company on
The previous notice was dated

20 December 2024
24 December 2024
05 August 2024
05 August 2024

## 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	Previous Notice	Previous Notice	Present Notice	Present Notice
Securities (4)	Person's votes	Voting Power (5)	Person's votes	Voting Power (5)
COMMON	30,226,512	10.11%		7.47%

## 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)	Considerati on given in relation to change (7)	Class and number of securities affected	Person's votes affected
			AUD	COMMON STOCK	COMMON STOCK
2024-08-02	FMR	SELL	11.4100	5,852	5,852
2024-08-02	FMR	SELL	10.4000	203	203
2024-08-05	FMR	SELL	11.6600	11,981	11,981
2024-08-05	FMR	INTER-FUND TRANSFER OUT	-	138,841	138,841
2024-08-05	FMR	SELL	11.8021	78,516	78,516
2024-08-05	FMR	SELL	11.7493	10,000	10,000
2024-08-05	FMR	INTER-FUND TRANSFER OUT	-	174,300	174,300
2024-08-05	FMR	SELL	11.8021	98,685	98,685
2024-08-05	FMR	SELL	11.7493	12,500	12,500
2024-08-05	FMR	INTER-FUND TRANSFER OUT	-	254,500	254,500
2024-08-05	FMR	SELL	11.8021	144,046	144,046
2024-08-05	FMR	SELL	11.7493	18,252	18,252
2024-08-05	FMR	INTER-FUND TRANSFER OUT	-	42,400	42,400

2024-08-05	FMR	SELL	11.8021	24,035	24,035
2024-08-05	FMR	SELL	11.7493	3,000	3,000
2024-08-05	FMR	SELL	9.6400	250	250
2024-08-06	FMR	SELL	10.0000	25,802	25,802
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2024-08-07	FMR	SELL	10.1200	5,837	5,837
2024-08-08	FMR	SELL	9.9314	294,042	294,042
2024-08-08	FMR	BUY	9.9000	88	88
2024-08-08	FMR	BUY	9.9000	25,705	25,705
2024-08-09	FMR	BUY		721	
			10.0900		721
2024-08-09	FMR	BUY	10.0900	73,008	73,008
2024-08-12	FMR	SELL	9.9333	117,200	117,200
2024-08-12	FMR	SELL	9.9333	15,543	15,543
2024-08-12	FMR	BUY	10.1100	163	163
2024-08-12	FMR	BUY	10.1100	40,045	40,045
2024-08-13	FMR	SELL	10.1000	353,200	353,200
2024-08-13	FMR	SELL	10.0781	98,400	98,400
2024-08-13	FMR	SELL	10.1000	46,800	46,800
				,	
2024-08-13	FMR	SELL	10.0781	13,082	13,082
2024-08-13	FMR	BUY	10.0630	160,078	160,078
2024-08-13	FMR	BUY	10.0900	22	22
2024-08-13	FMR	BUY	10.0900	19,443	19.443
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2024-08-14	FMR	SELL	10.0679	96,800	96,800
2024-08-14	FMR	SELL	9.9700	88,090	88,090
2024-08-14	FMR	SELL	10.0679	12,865	12,865
2024-08-14	FMR	SELL	9.9700	11,710	11,710
		-			
2024-08-14	FMR	BUY	10.0600	6	6
2024-08-14	FMR	BUY	10.0600	18,851	18,851
2024-08-15	FMR	BUY	10.1400	96	96
2024-08-15	FMR	BUY	10.1400	20,055	20,055
2024-08-16	FMR	BUY	10.5200		·
		-		56	56
2024-08-16	FMR	BUY	10.5200	13,485	13,485
2024-08-19	FMR	BUY	9.9100	580	580
2024-08-19	FMR	BUY	9.9100	70,662	70,662
2024-08-20	FMR	BUY	10.1937	800	800
2024-08-20	FMR	BUY	10.1950	3,100	3,100
2024-08-20	FMR	BUY	10.1937	10,000	10,000
2024-08-20	FMR	BUY	10.1950	44,600	44,600
2024-08-20	FMR	BUY	10.1937	6,812	6,812
	FMR	BUY			
2024-08-20			10.1950	30,700	30,700
2024-08-20	FMR	BUY	10.1937	800	800
2024-08-20	FMR	BUY	10.1950	2,100	2,100
2024-08-20	FMR	BUY	10.1937	800	800
2024-08-20	FMR	BUY	i		
			10.1950	2,500	2,500
2024-08-20	FMR	BUY	10.1937	800	800
2024-08-20	FMR	BUY	10.1950	2,800	2,800
2024-08-20	FMR	BUY	10.1937	29.600	29,600
2024-08-20	FMR	BUY	10.1950	132,200	132,200
		-			
2024-08-20	FMR	BUY	10.1937	2,100	2,100
2024-08-20	FMR	BUY	10.1950	9,400	9,400
2024-08-20	FMR	BUY	10.1937	11,400	11,400
2024-08-20	FMR	BUY	10.1950	51,100	51,100
2024-08-20	FMR	BUY	10.1937	4,800	4,800
2024-08-20	FMR	BUY	10.1950	21,500	21,500
2024-08-20	FMR	SELL	10.2400	3,654	3,654
2024-08-21	FMR	BUY	10.0089	800	800
2024-08-21	FMR	BUY	10.0242	1,400	1,400
	FMR	BUY	10.0450		
2024-08-21				12,800	12,800
2024-08-21	FMR	BUY	10.0089	1,300	1,300
2024-08-21	FMR	BUY	10.0242	20,200	20,200
2024-08-21	FMR	BUY	10.0450	108,781	108,781
2024-08-21	FMR	BUY	10.0089	900	900
2024-08-21	FMR	BUY	10.0242	13,900	13,900
2024-08-21	FMR	BUY	10.0450	127,100	127,100
	FMR	BUY	10.0089	800	800
2024-08-21		-			900
2024-08-21		RHY	11111247	MI II I	
2024-08-21 2024-08-21	FMR	BUY	10.0242	900	
2024-08-21 2024-08-21 2024-08-21	FMR FMR	BUY	10.0450	8,700	8,700
2024-08-21 2024-08-21 2024-08-21 2024-08-21	FMR FMR FMR	BUY BUY	10.0450 10.0089	8,700 800	8,700 800
2024-08-21 2024-08-21 2024-08-21	FMR FMR	BUY	10.0450	8,700	8,700

2024-08-21					
	FMR	BUY	10.0089	800	800
2024-08-21	FMR	BUY	10.0242	1,277	1,277
2024-08-21	FMR	BUY	10.0450	11,500	11,500
2024-08-21	FMR	BUY	10.0089	3,828	3,828
2024-08-21	FMR	BUY	10.0242	25,072	25,072
2024-08-21	FMR	BUY			
		_	10.0089	800	800
2024-08-21	FMR	BUY	10.0242	4,300	4,300
2024-08-21	FMR	BUY	10.0450	39,000	39,000
2024-08-21	FMR	BUY	10.0089	1,500	1,500
2024-08-21	FMR	BUY	10.0450	211,765	211,765
2024-08-21	FMR	BUY	10.0242	23,100	23,100
2024-08-21	FMR	BUY	10.0089	800	800
2024-08-21	FMR	BUY	10.0450	34,818	34,818
2024-08-21	FMR	BUY	10.0242	9,700	9,700
2024-08-21	FMR	SELL	10.1000	1,032	1,032
2024-08-22	FMR	BUY	10.1500	800	800
2024-08-22	FMR	BUY	10.1500	800	800
2024-08-22	FMR	BUY	10.1500	800	800
2024-08-22	FMR	BUY	10.1500	800	800
2024-08-22	FMR	BUY	10.1500	997	997
2024-08-22	FMR	SELL	10.0200	3,697	3,697
	FMR	BUY	9.8039		
2024-08-23		_		2,166	2,166
2024-08-23	FMR	BUY	9.8039	21,500	21,500
2024-08-23	FMR	BUY	9.8039	1,500	1,500
2024-08-23	FMR	BUY	9.8039	2,000	2,000
2024-08-23	FMR	BUY	9.8039	6,500	6,500
2024-08-23	FMR	BUY	9.8039	38,200	38,200
2024-08-23	FMR	SELL	9.7300	3,632	3,632
2024-08-26	FMR	SELL	10.8800	593	593
2024-08-27	FMR	SELL	10.7600	2,166	2,166
				,	
2024-08-28	FMR	SELL	10.1300	401	401
2024-08-29	FMR	SELL	9.7500	665	665
2024-08-30	FMR	BUY	9.7900	12	12
2024-08-30	FMR	SELL	9.7900	1,057	1,057
2024-09-03	FMR	SELL	9.3100	131	131
2024-09-04	FMR	SELL	8.6500	12	12
2024-09-04	FMR	SELL	8.6500	2,796	2,796
2024-09-05	FMR	SELL	8.7600	996	996
		_			
2024-09-06	FMR	SELL	8.3300	1,042	1,042
2024-09-09	FMR	SELL	8.3700	455	455
2024-09-09	FMR	SELL	8.3700	28,217	28,217
2024-09-10	FMR	SELL	8.8600	83	83
2024-09-10	FMR	SELL	8.8600	30,033	30,033
2024-09-11	FMR	BUY	8.9000	900	900
2024-09-11	FMR	BUY	8.9000	3,599	3,599
2024-09-11	FMR	BUY	8.9000	900	900
2024-09-11					
	FMR	BUY	8.9000	900	900
2024-09-11	FMR	BUY	8.9000	1,100	1,100
2024-09-11	FMR	BUY	8.9000	6,300	6,300
2024-09-11	FMR	SELL	8.9700	14,309	14,309
2024-09-12	FMR	BUY	9.7672	800	800
2024-09-12	FMR	BUY	9.7672	4,700	4,700
2024-09-12	FMR	BUY	9.7672	800	800
2024-09-12	FMR	BUY	9.7672	800	800
2024-09-12	FMR	BUY	9.7672	1,400	1,400
2024-09-12	FMR	BUY	9.7672	8,480	8,480
2024-09-12	FMR	SELL	9.7900	229	229
2024-09-13	FMR	BUY	9.6783	800	800
2024-09-13	FMR	BUY	9.6783	2,500	2,500
2024-09-13	FMR	BUY	9.6783	800	800
2024-09-13	FMR	BUY	9.6783	800	800
2024-09-13	FMR	BUY	9.6783	800	800
2024-09-13	FMR	BUY	9.6783	4,426	4,426
2024-09-13	FMR	SELL	9.3700	1,420	1,420
2024-09-16	FMR	SELL	9.2000	64	64
	FMR	SELL	9.2000	39,591	39,591
2024-09-16					
2024-09-17	FMR	SELL	9.1300	7,613	7,613
		SELL BUY	9.1300 8.9881	7,613 900	7,613 900

2024-09-18	FMR	BUY	8.9881	900	900
2024-09-18	FMR	BUY	8.9881	900	900
2024-09-18	FMR	BUY	8.9881	1,100	1,100
2024-09-18	FMR	BUY	8.9881	6,496	6,496
2024-09-18	FMR	SELL	9.1400	2,122	2,122
2024-09-19	FMR	BUY	9.2500	900	900
2024-09-19	FMR	BUY	9.2500	900	900
2024-09-19	FMR	BUY	9.2500	900	900
2024-09-19	FMR	BUY	9.2500	900	900
2024-09-19	FMR	BUY	9.2500	900	900
2024-09-19	FMR	BUY	9.2500	1,461	1,461
2024-09-19	FMR	SELL	9.8800	5	5
		SELL		22,640	
2024-09-19	FMR		9.8800		22,640
2024-09-20	FMR	SELL	9.4200	55	55
2024-09-20	FMR	SELL	9.4200	2,132	2,132
2024-09-23	FMR	BUY	10.0961	800	800
2024-09-23	FMR	BUY	10.0961	7,800	7,800
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2024-09-23	FMR	BUY	10.0961	800	800
2024-09-23	FMR	BUY	10.0961	800	800
2024-09-23	FMR	BUY	10.0961	2,346	2,346
2024-09-23	FMR	BUY	10.0961	13,800	13,800
2024-09-23	FMR	SELL	9.8600	149	149
2024-09-24	FMR	SELL	10.8600	189	189
2024-09-25	FMR	SELL	10.6400	604	604
2024-09-26	FMR	SELL	11.4500	1,831	1,831
2024-09-27	FMR	BUY	11.5400	700	700
2024-09-27	FMR	BUY	11.5400	1,000	1,000
2024-09-27	FMR	BUY	11.5400	700	700
2024-09-27	FMR	BUY	11.5400	700	700
2024-09-27	FMR	BUY	11.5400	700	700
		_			
2024-09-27	FMR	BUY	11.5400	1,853	1,853
2024-09-27	FMR	BUY	11.5027	549	549
2024-09-27	FMR	SELL	11.7400	417	417
2024-09-30	FMR	SELL	11.5500	1,042	1,042
2024-10-01	FMR	SELL	11.5400	549	549
2024-10-01	FMR	SELL	11.7700	397	397
2024-10-02	FMR	SELL	11.8300	586	586
2024-10-03	FMR	BUY	11.9200	700	700
2024-10-03	FMR	BUY	11.9200	700	700
	FMR	BUY		700	
2024-10-03		_	11.9200		700
2024-10-03	FMR	BUY	11.9200	994	994
2024-10-03	FMR	SELL	11.8300	523	523
2024-10-04	FMR	SELL	11.6600	811	811
2024-10-07	FMR	SELL	11.7900	13	13
		_			
2024-10-07	FMR	SELL	11.7900	1,317	1,317
2024-10-08	FMR	SELL	11.8100	525	525
2024-10-09	FMR	SELL	11.7800	1,122	1,122
2024-10-10	FMR	SELL	11.8500	433	433
2024-10-11	FMR	SELL	11.8700	228	228
2024-10-14	FMR	SELL	11.8200	502	502
2024-10-15	FMR	SELL	12.1000	1,113	1,113
2024-10-16	FMR	SELL	11.7400	1,449	1,449
2024-10-17	FMR	SELL	13.0300	279	279
		BUY		600	
2024-10-18	FMR		12.7974		600
2024-10-18	FMR	BUY	12.7974	1,100	1,100
2024-10-18	FMR	BUY	12.7974	600	600
2024-10-18	FMR	BUY	12.7974	600	600
2024-10-18	FMR	BUY	12.7974	600	600
2024-10-18	FMR	BUY	12.7974	600	600
2024-10-18	FMR	BUY	12.7974	2,078	2,078
		BUY	12.7974	800	800
2024-10-18	FMR	DO 1			
			12 4900	17	17
2024-10-18	FMR	SELL	12.4900	17	17
2024-10-18 2024-10-18	FMR FMR	SELL SELL	12.4900	894	894
2024-10-18 2024-10-18 2024-10-21	FMR FMR FMR	SELL SELL BUY	12.4900 12.8175	894 600	894 600
2024-10-18 2024-10-18	FMR FMR	SELL SELL	12.4900	894	894
2024-10-18 2024-10-18 2024-10-21 2024-10-21	FMR FMR FMR FMR	SELL SELL BUY BUY	12.4900 12.8175 12.8175	894 600 3,500	894 600 3,500
2024-10-18 2024-10-18 2024-10-21 2024-10-21 2024-10-21	FMR FMR FMR FMR FMR	SELL SELL BUY BUY BUY	12.4900 12.8175 12.8175 12.8175	894 600 3,500 600	894 600 3,500 600
2024-10-18 2024-10-18 2024-10-21 2024-10-21 2024-10-21 2024-10-21	FMR FMR FMR FMR FMR FMR FMR	SELL SELL BUY BUY BUY BUY BUY	12.4900 12.8175 12.8175 12.8175 12.8175	894 600 3,500 600 600	894 600 3,500 600
2024-10-18 2024-10-18 2024-10-21 2024-10-21 2024-10-21	FMR FMR FMR FMR FMR	SELL SELL BUY BUY BUY	12.4900 12.8175 12.8175 12.8175	894 600 3,500 600	894 600 3,500 600

2024-10-21	FMR	BUY	12.8175	1,000	1,000
2024-10-21	FMR	BUY	12.8175	7,186	7,186
2024-10-21	FMR	BUY	12.8175	2,900	2,900
2024-10-21	FMR	SELL	13.0100	747	747
2024-10-22	FMR	SELL	12.7600	441	441
2024-10-23	FMR	SELL	12.5100	658	658
2024-10-24	FMR	SELL	12.4000	1.003	1,003
2024-10-25	FMR	SELL	12.2300	1,560	1,560
2024-10-28	FMR	SELL	10.3600	263	263
2024-10-29	FMR	SELL	9.8500	1,904	1,904
2024-10-30	FMR	SELL	9.8500	1,434	1,434
2024-10-31	FMR	SELL	10.2000	4,645	4,645
		SELL			
2024-11-01	FMR		10.1600	8	8
2024-11-01	FMR	SELL	10.1600	1,549	1,549
2024-11-04	FMR	SELL	9.8300	1,763	1,763
2024-11-05	FMR	SELL	9.5300	2,130	2,130
2024-11-06	FMR	BUY	9.7861	800	800
		-			
2024-11-06	FMR	BUY	9.7861	1,124	1,124
2024-11-06	FMR	SELL	9.6000	856	856
2024-11-07	FMR	BUY	9.5597	522	522
2024-11-07	FMR	SELL	9.6300	5,955	5,955
2024-11-08	FMR	SELL	9.7200	68	68
2024-11-08	FMR	SELL	9.7200	3,072	3,072
2024-11-11	FMR	BUY	9.7753	1,700	1,700
2024-11-11	FMR	BUY	9.7753	18,500	18,500
2024-11-11	FMR	BUY	9.7753	1,200	1,200
2024-11-11	FMR	BUY	9.7753	983	983
2024-11-11	FMR	BUY	9.7753	800	800
2024-11-11	FMR	BUY	9.7753	1,600	1,600
2024-11-11	FMR	BUY	9.7753	5,500	5,500
2024-11-11	FMR	BUY	9.7753	38,062	38,062
2024-11-11	FMR	BUY	9.7753	15,600	15,600
2024-11-11	FMR	SELL	9.6800	2,218	2,218
2024-11-12	FMR	SELL	6.8800	32	32
2024-11-12	FMR	SELL	6.8800	5,051	5,051
	FMR				
2024-11-13		SELL	7.4700	59	59
2024-11-13	FMR	SELL	7.4700	4,325	4,325
2024-11-14	FMR	SELL	7.3400	13,714	13,714
2024-11-15	FMR	SELL	7.2900	99	99
2024-11-15	FMR	SELL	7.2900	13,879	13,879
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2024-11-18	FMR	SELL	7.3400	1,340	1,340
2024-11-18	FMR	BUY	7.7105	57,146	57,146
2024-11-18	FMR	SELL	7.6900	193	193
2024-11-18	FMR	SELL	7.6900	37,311	37,311
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2024-11-19	FMR	SELL	7.9000	7	7
2024-11-19	FMR	SELL	7.9000	7,110	7,110
2024-11-20	FMR	BUY	8.0522	119,800	119,800
2024-11-20	FMR	BUY	8.0522	17,529	17,529
2024-11-20	FMR	SELL	7.8100	6,683	6,683
2024-11-21	FMR	BUY	7.7800	5,802	5,802
2024-11-21	FMR	BUY	7.7800	1,000	1,000
2024-11-21	FMR	SELL	7.7400	7	7
2024-11-21	FMR	SELL	7.7400	8,972	8,972
2024-11-22	FMR	BUY	8.0846	13,100	13,100
2024-11-22	FMR	BUY	8.0846	1,916	1,916
2024-11-22	FMR	SELL	8.2000	71	71
2024-11-22	FMR	SELL	8.2000	24,808	24,808
2024-11-25	FMR	BUY	8.2902	17,300	17,300
2024-11-25	FMR	BUY	8.2902	2,590	2,590
2024-11-25	FMR	SELL	8.3100	8,205	8,205
2024-11-26	FMR	SELL	8.3000	40	40
2024-11-26	FMR	SELL	8.3000	3,678	3,678
2024-11-27	FMR	BUY	8.2234	1,000	1,000
00044407	רואם	BUY	8.2234	9,193	9,193
2024-11-27	FMR				
2024-11-27	FMR	BUY	8.2234	1,300	1,300
			8.2234 8.1700	1,300 32	1,300 32
2024-11-27 2024-11-27	FMR FMR	BUY SELL	8.1700	32	32
2024-11-27 2024-11-27 2024-11-27	FMR FMR FMR	BUY SELL SELL	8.1700 8.1700	32 5,441	32 5,441
2024-11-27 2024-11-27	FMR FMR	BUY SELL	8.1700	32	32

2024-11-28	FMR	BUY	8.0687	1,000	1,000
2024-11-29	FMR	BUY	7.7689	1,000	1,000
2024-11-29	FMR	BUY	7.7689	3,469	3,469
2024-11-29	FMR	BUY	7.7689	4,783	4,783
2024-11-29	FMR	SELL	7.6000	1,954	1,954
2024-12-02	FMR	BUY	7.7217	515	515
2024-12-02	FMR	BUY	7.7217	2,096	2,096
2024-12-02	FMR	SELL	7.6600	11	11
2024-12-02	FMR	SELL	7.6600	2,125	2,125
2024-12-03	FMR	SELL	7.7800	133	133
2024-12-03	FMR	SELL	7.7800	13,002	13,002
2024-12-04	FMR	BUY	7.7321	609	609
2024-12-04	FMR	SELL	7.7300	86	86
2024-12-04	FMR	SELL	7.7300	5,191	5,191
2024-12-05	FMR	BUY	7.6414	13,782	13,782
2024-12-05	FMR	SELL	7.5500	5,773	5,773
2024-12-06	FMR	BUY	7.7000	1,100	1,100
2024-12-06	FMR	BUY	7.7000	3,768	3,768
2024-12-06	FMR	SELL	7.6200	2,871	2,871
2024-12-09	FMR	BUY	7.5132	3,562	3,562
2024-12-09	FMR	BUY	7.5132	32,627	32,627
2024-12-09	FMR	SELL	7.4700	7,013	7,013
2024-12-10	FMR	SELL	7.6200	3,276	3,276
2024-12-11	FMR	BUY	7.6935	7,120	7,120
2024-12-11	FMR	SELL	7.5400	14,432	14,432
2024-12-12	FMR	BUY	7.6200	1,286	1,286
2024-12-12	FMR	SELL	7.5900	12	12
2024-12-12	FMR	SELL	7.5900	2,936	2,936
2024-12-13	FMR	BUY	7.7267	42,410	42,410
2024-12-13	FMR	SELL	7.9500	9	9
2024-12-13	FMR	SELL	7.9500	2,407	2,407
2024-12-16	FMR	SELL	7.6200	10	10
2024-12-16	FMR	SELL	7.6200	3,657	3,657
2024-12-17	FMR	SELL	7.4700	2,359	2,359
2024-12-18	FMR	SELL	7.7100	2,945	2,945
2024-12-19	FMR	BUY	7.8100	50,649	50,649
2024-12-19	FMR	BUY	7.8100	7,400	7,400
2024-12-19	FMR	SELL	7.8100	11	11
2024-12-19	FMR	SELL	7.8100	1,838	1,838
2024-12-20	FMR	BUY	7.7304	3,237	3,237
2024-12-20	FMR	BUY	7.7304	1,100	1,100
2024-12-20	FMR	SELL	7.7600	136	136
2024-12-20	FMR	SELL	7.7600	1,215	1,215

## 4. Present Relevant Interest

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

Refer to Annexure A

# 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
N/A	

#### 6. Addresses

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

AbnaYu

The address of FMR LLC is The Corporation Trust Center, 1209 Orange Street, Wilmington, New Castle County, Delaware 19801 and please refer to Annexure A for its entity with relevant interest

Sign Here \_\_\_\_\_

Dated: 30 December 2024

Alina Yu

**Regulatory Reporting Manager** 

Duly authorized under Powers of Attorney by and on behalf of FMR LLC

#### **Annexure A**

Investment Manager	Address	Custodian	Nature of Relevant Interest	Sum of Numerator Shares
FIAM LLC	900 Salem Street, Smithfield, RI 02917	BANK OF NEW YORK MELLON		3,729,411
	United States	BROWN BROTHERS HARRIMAN AND CO		501,846
		JP MORGAN, BOURNEMOUTH (C)		4,858
		NORTHERN TRUST CO (C)	]	93,844
		NORTHERN TRUST LONDON (C)		463,659
		STATE STREET BANK AND TR CO		7,902,230
Fidelity Institutional Asset Management	900 Salem Street, Smithfield, RI 02917	BANK OF NEW YORK MELLON	Investment Discretion /	86,833
Trust Company	United States	BROWN BROTHERS HARRIMAN AND CO		230,313
		JP MORGAN, BOURNEMOUTH (C)	Voting Power	9,320
		NORTHERN TRUST CO (C)	]	287,400
		STATE STREET BANK AND TR CO		557,796
Fidelity Management & Research Company	Corporation Trust Center, 1200 Orange	BANK OF NEW YORK MELLON		7,432,461
LLC	Street, Wilmington,	CITIBANK NA		101,305
	New Castle County,	NORTHERN TRUST CO (C)		995,100
	Delaware 19801, United States	STATE STREET BANK AND TR CO		6,732,679
Strategic Advisers LLC	245 Summer Street, V10g Bostion MA United States 02210	NATIONAL FINANCIAL SERVICES(C)		668,995
Grand Total				29,798,050