EDB Information Disclosure Requirements
Information Templates
for
Schedules 1–10

Company Name	Waipa Networks Limited
Disclosure Date	31 August 2021
Disclosure Year (year ended)	31 March 2021

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 21 December 2017

Table of Contents

Disclosure Template Instructions

These templates have been prepared for use by EDBs when making disclosures under clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1, and 2.5.2 of the Electricity Distribution Information Disclosure Determination 2012.

Company Name and Dates

To prepare the templates for disclosure, the supplier's company name should be entered in cell C8, the date of the last day of the current (disclosure) year should be entered in cell C12, and the date on which the information is disclosed should be entered in cell C10 of the CoverSheet worksheet.
The cell C12 entry (current year) is used to calculate disclosure years in the column headings that show above some of the tables and in labels adjacent to some entry cells. It is also used to calculate the 'For year ended' date in the template title blocks (the title blocks are the light green shaded areas at the top of each template).
The cell C8 entry (company name) is used in the template title blocks.
Dates should be entered in day/month/year order (Example -"1 April 2013").

Data Entry Cells and Calculated Cells

Data entered into this workbook may be entered only into the data entry cells. Data entry cells are the bordered, unshaded areas (white cells) in each template. Under no circumstances should data be entered into the workbook outside a data entry cell.
In some cases, where the information for disclosure is able to be ascertained from disclosures elsewhere in the workbook, such information is disclosed in a calculated cell.

Validation Settings on Data Entry Cells

To maintain a consistency of format and to help guard against errors in data entry, some data entry cells test keyboard entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names, to values between 0% and 100%, or either a numeric entry or the text entry "N/A". Where this occurs, a validation message will appear when data is being entered. These checks are applied to keyboard entries only and not, for example, to entries made using Excel's copy and paste facility.

Conditional Formatting Settings on Data Entry Cells

Schedule 2 cells G79 and I79:L79 will change colour if the total cashflows do not equal the corresponding values in table 2(ii).
Schedule 4 cells P99:P105 and P107 will change colour if the RAB values do not equal the corresponding values in table 4(ii).
Schedule 9b columns AA to AE (2013 to 2017) contain conditional formatting. The data entry cells for future years are hidden (are changed from white to yellow).
Schedule 9b cells AG10 to AG60 will change colour if the total assets at year end for each asset class does not equal the corresponding values in column I in Schedule 9a.
Schedule 9c cell G30 will change colour if G30 (overhead circuit length by terrain) does not equal G18 (overhead circuit length by operating voltage).

Inserting Additional Rows and Columns

The templates for schedules 4, 5b, 5c, 5d, 5e, 6a, 8, 9d, and 9e may require additional rows to be inserted in tables marked 'include additional rows if needed' or similar. Column A schedule references should not be entered in additional rows, and should be deleted from additional rows that are created by copying and pasting rows that have schedule references.
Additional rows in schedules 5c, 6a, and 9e must not be inserted directly above the first row or below the last row of a table. This is to ensure that entries made in the new row are included in the totals.
Schedules 5d and 5e may require new cost or asset category rows to be inserted in allocation change tables 5d(iii) and 5e(ii). Accordingly, cell protection has been removed from rows 77 and 78 of the respective templates to allow blocks of rows to be copied. The four steps to add new cost category rows to table 5d(iii) are: Select Excel rows 69:77, copy, select Excel row 78, insert copied cells. Similarly, for table 5e(ii): Select Excel rows 70:78, copy, select Excel row 79, then insert copied cells.
The template for schedule 8 may require additional columns to be inserted between column P and U. To avoid interfering with the title block entries, these should be inserted to the left of column S. If inserting additional columns, the formulas for standard consumers total, non-standard consumers totals and total for all consumers will need to be copied into the cells of the added columns. The formulas can be found in the equivalent cells of the existing columns.

Disclosures by Sub-Network

If the supplier has sub-networks, schedules 8, 9a, 9b, 9c, 9e, and 10 must be completed for the network and for each sub-network. A copy of the schedule worksheet(s) must be made for each sub-network and named accordingly.

Schedule References

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 21 December 2017). They provide a common reference between the rows in the determination and the template.

Description of Calculation References

Calculation cell formulas contain links to other cells within the same template or elsewhere in the workbook. Key cell references are described in a column to the right of each template. These descriptions are provided to assist data entry. Cell references refer to the row of the template and not the schedule reference.

Worksheet Completion Sequence

Calculation cells may show an incorrect value until precedent cell entries have been completed. Data entry may be assisted by completing the schedules in the following order:

1. Coversheet
2. Schedules 5a–5e
3. Schedules 6a–6b
4. Schedule 8
5. Schedule 3
6. Schedule 4
7. Schedule 2
8. Schedule 7
9. Schedules 9a–9e
10. Schedule 10

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
Operational expenditure	23,354	337	111,360	4,091	33,283
Network	10,075	146	48,041	1,765	14,358
Non-network	13,279	192	63,319	2,326	18,924
Expenditure on assets	29,108	420	138,796	5,100	41,483
Network	24,288	351	115,813	4,255	34,613
Non-network	4,820	70	22,984	844	6,869

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	67,426	974
Standard consumer line charge revenue	76,617	908
Non-standard consumer line charge revenue	25,347	723,194

1(iii): Service intensity measures

Demand density	37	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	175	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
Connection point density	12	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
Energy intensity	14,442	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	9,293	34.81%
Pass-through and recoverable costs excluding financial incentives and wash-ups	8,067	30.21%
Total depreciation	4,587	17.18%
Total revaluations	1,870	7.00%
Regulatory tax allowance	2,470	9.25%
Regulatory profit/(loss) including financial incentives and wash-ups	4,152	15.55%
Total regulatory income	26,699	

1(v): Reliability

Interruption rate	12.37	*Interruptions per 100 circuit km*

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

2(i): Return on Investment

sch ref		CY-2 31 Mar 19 %	CY-1 31 Mar 20 %	Current Year CY 31 Mar 21 %
	ROI – comparable to a post tax WACC			
	Reflecting all revenue earned	4.46%	5.27%	3.14%
	Excluding revenue earned from financial incentives	4.46%	5.27%	3.14%
	Excluding revenue earned from financial incentives and wash-ups	4.46%	5.27%	3.14%
	Mid-point estimate of post tax WACC	4.75%	4.27%	3.72%
	25th percentile estimate	4.07%	3.59%	3.04%
	75th percentile estimate	5.43%	4.95%	4.40%
	ROI – comparable to a vanilla WACC			
	Reflecting all revenue earned	4.97%	5.69%	3.47%
	Excluding revenue earned from financial incentives	4.97%	5.69%	3.47%
	Excluding revenue earned from financial incentives and wash-ups	4.97%	5.69%	3.47%
	WACC rate used to set regulatory price path			
	Mid-point estimate of vanilla WACC	5.26%	4.69%	4.05%
	25th percentile estimate	4.58%	4.01%	3.37%
	75th percentile estimate	5.94%	5.37%	4.73%

2(ii): Information Supporting the ROI

		($000)		
	Total opening RAB value	123,476		
plus	Opening deferred tax	(5,438)		
Opening RIV			118,038	
Line charge revenue			26,830	
	Expenses cash outflow	17,360		
add	Assets commissioned	5,880		
less	Asset disposals	131		
add	Tax payments	1,713		
less	Other regulated income	(131)		
Mid-year net cash outflows			24,952	
Term credit spread differential allowance			–	
	Total closing RAB value	126,979		
less	Adjustment resulting from asset allocation	1		
less	Lost and found assets adjustment	471		
plus	Closing deferred tax	(6,195)		
Closing RIV			120,312	
	ROI – comparable to a vanilla WACC			3.47%
	Leverage (%)			42%
	Cost of debt assumption (%)			2.82%
	Corporate tax rate (%)			28%
	ROI – comparable to a post tax WACC			3.14%

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

2(iii): Information Supporting the Monthly ROI

63	**Opening RIV**	N/A

		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
67	April						–
68	May						–
69	June						–
70	July						–
71	August						–
72	September						–
73	October						–
74	November						–
75	December						–
76	January						–
77	February						–
78	March						–
79	**Total**	–	–	–	–	–	–

81	**Tax payments**	N/A
83	**Term credit spread differential allowance**	N/A
85	**Closing RIV**	N/A
88	**Monthly ROI – comparable to a vanilla WACC**	N/A
90	**Monthly ROI – comparable to a post tax WACC**	N/A

2(iv): Year-End ROI Rates for Comparison Purposes

94	**Year-end ROI – comparable to a vanilla WACC**	3.43%
96	**Year-end ROI – comparable to a post tax WACC**	3.10%

98 ** these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.*

2(v): Financial Incentives and Wash-Ups

102	Net recoverable costs allowed under incremental rolling incentive scheme	–	
103	Purchased assets – avoided transmission charge		
104	Energy efficiency and demand incentive allowance		
105	Quality incentive adjustment		
106	Other financial incentives		
107	**Financial incentives**		–
109	**Impact of financial incentives on ROI**		–
111	Input methodology claw-back		
112	CPP application recoverable costs		
113	Catastrophic event allowance		
114	Capex wash-up adjustment		
115	Transmission asset wash-up adjustment		
116	2013–15 NPV wash-up allowance		
117	Reconsideration event allowance		
118	Other wash-ups		
119	**Wash-up costs**		–
121	**Impact of wash-up costs on ROI**		–

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref				
7	**3(i): Regulatory Profit**			**($000)**
8		**Income**		
9		Line charge revenue		26,830
10	*plus*	Gains / (losses) on asset disposals		(131)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)		–
12				
13		**Total regulatory income**		26,699
14		**Expenses**		
15	*less*	Operational expenditure		9,293
16				
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups		8,067
18				
19		**Operating surplus / (deficit)**		9,340
20				
21	*less*	Total depreciation		4,587
22				
23	*plus*	Total revaluations		1,870
24				
25		**Regulatory profit / (loss) before tax**		6,622
26				
27	*less*	Term credit spread differential allowance		–
28				
29	*less*	Regulatory tax allowance		2,470
30				
31		**Regulatory profit/(loss) including financial incentives and wash-ups**		4,152
32				
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**		**($000)**	
34		**Pass through costs**		
35		Rates	89	
36		Commerce Act levies	14	
37		Industry levies	82	
38		CPP specified pass through costs		
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	7,393	
41		Transpower new investment contract charges	488	
42		System operator services		
43		Distributed generation allowance		
44		Extended reserves allowance		
45		Other recoverable costs excluding financial incentives and wash-ups		
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		8,067
47				

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

3(iii): Incremental Rolling Incentive Scheme

($000)

		CY-1 31 Mar 20	CY 31 Mar 21
	Allowed controllable opex		
	Actual controllable opex		
	Incremental change in year		

		Previous years' incremental change	Previous years' incremental change adjusted for inflation
CY-5	31 Mar 16		
CY-4	31 Mar 17		
CY-3	31 Mar 18		
CY-2	31 Mar 19		
CY-1	31 Mar 20		
Net incremental rolling incentive scheme			–
Net recoverable costs allowed under incremental rolling incentive scheme			–

3(iv): Merger and Acquisition Expenditure

($000)

Merger and acquisition expenditure	

Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)

3(v): Other Disclosures

($000)

Self-insurance allowance	

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(i): Regulatory Asset Base Value (Rolled Forward)

		for year ended	RAB 31 Mar 17 ($000)	RAB 31 Mar 18 ($000)	RAB 31 Mar 19 ($000)	RAB 31 Mar 20 ($000)	RAB 31 Mar 21 ($000)
	Total opening RAB value		91,746	112,541	113,558	114,175	123,476
less	**Total depreciation**		3,507	3,907	4,017	4,135	4,587
plus	**Total revaluations**		1,983	1,236	1,680	2,888	1,870
plus	**Assets commissioned**		22,504	3,865	3,238	10,620	5,880
less	**Asset disposals**		185	177	284	143	131
plus	**Lost and found assets adjustment**		–	–	–	–	471
plus	**Adjustment resulting from asset allocation**		–	–	–	71	1
	Total closing RAB value		112,541	113,558	114,175	123,476	126,979

4(ii): Unallocated Regulatory Asset Base

		Unallocated RAB * ($000)	Unallocated RAB * ($000)	RAB ($000)	RAB ($000)
	Total opening RAB value		127,450		123,476
less					
	Total depreciation		4,861		4,587
plus					
	Total revaluations		1,930		1,870
plus					
	Assets commissioned (other than below)	1,219		1,219	
	Assets acquired from a regulated supplier	–		–	
	Assets acquired from a related party	4,660		4,660	
	Assets commissioned		5,880		5,880
less					
	Asset disposals (other than below)	131		131	
	Asset disposals to a regulated supplier	–		–	
	Asset disposals to a related party	–		–	
	Asset disposals		131		131
plus	**Lost and found assets adjustment**		–		471
plus	**Adjustment resulting from asset allocation**				1
	Total closing RAB value		130,268		126,979

** The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.*

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(iii): Calculation of Revaluation Rate and Revaluation of Assets

	CPI_4	1,068
	CPI_4^{-4}	1,052
	Revaluation rate (%)	1.52%

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
	Total opening RAB value	127,450		123,476	
less	Opening value of fully depreciated, disposed and lost assets	533		533	
	Total opening RAB value subject to revaluation	126,917		122,943	
	Total revaluations		1,930		1,870

4(iv): Roll Forward of Works Under Construction

		Unallocated works under construction		Allocated works under construction	
	Works under construction—preceding disclosure year		1,026		1,026
plus	Capital expenditure	7,073		7,073	
less	Assets commissioned	5,880		5,880	
plus	Adjustment resulting from asset allocation				
	Works under construction - current disclosure year		2,220		2,220
	Highest rate of capitalised finance applied				–

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(v): Regulatory Depreciation

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
	Depreciation - standard	4,132		4,132	
	Depreciation - no standard life assets	729		456	
	Depreciation - modified life assets				
	Depreciation - alternative depreciation in accordance with CPP				
	Total depreciation		4,861		4,587

4(vi): Disclosure of Changes to Depreciation Profiles

($000 unless otherwise specified)

Asset or assets with changes to depreciation*	Reason for non-standard depreciation (text entry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non-standard' depreciation	Closing RAB value under 'standard' depreciation

** include additional rows if needed*

4(vii): Disclosure by Asset Category

($000 unless otherwise specified)

		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total	
	Total opening RAB value	18,792	–	–	28,564	23,448	28,848	16,517	5,024	2,283	123,476	
less	Total depreciation	265	–	–	1,193	762	972	629	312	456	4,587	
plus	Total revaluations	286	–	–	423	359	437	253	76	35	1,870	
plus	Assets commissioned	20	–	–	230	382	1,951	1,459	661	1,176	5,880	
less	Asset disposals	–	–	–	–	–	131	–	–	–	131	
plus	Lost and found assets adjustment	–	–	–	52	219	51	149	–	–	471	
plus	Adjustment resulting from asset allocation	–	–	–	–	–	–	–	–	–	–	
plus	Asset category transfers	–	–	–	–	–	–	–	–	–	–	
	Total closing RAB value	18,833	–	–	28,076	23,646	30,186	17,750	5,450	3,038	126,979	
	Asset Life											
	Weighted average remaining asset life	50.0	–	–	26.4	27.7	26.6	21.5	20.0	15.4		(years)
	Weighted average expected total asset life	55.0	–	–	59.9	45.1	44.1	37.6	40.2	50.1		(years)

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section

sch ref					
7	**5a(i): Regulatory Tax Allowance**				**($000)**
8		**Regulatory profit / (loss) before tax**			6,622
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	2,677	*	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible		*	
12		Amortisation of initial differences in asset values	1,601		
13		Amortisation of revaluations	1,172		
14					5,449
15					
16	*less*	Total revaluations	1,870		
17		Income included in regulatory profit / (loss) before tax but not taxable		*	
18		Discretionary discounts and customer rebates	–		
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax		*	
20		Notional deductible interest	1,379		
21					3,249
22					
23		**Regulatory taxable income**			8,823
24					
25	*less*	Utilised tax losses			
26		Regulatory net taxable income			8,823
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			2,470
30					
31	* Workings to be provided in Schedule 14				
32	**5a(ii): Disclosure of Permanent Differences**				
33	In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).				
34	**5a(iii): Amortisation of Initial Difference in Asset Values**				**($000)**
35					
36		Opening unamortised initial differences in asset values	40,018		
37	*less*	Amortisation of initial differences in asset values	1,601		
38	*plus*	Adjustment for unamortised initial differences in assets acquired			
39	*less*	Adjustment for unamortised initial differences in assets disposed			
40		Closing unamortised initial differences in asset values			38,417
41					
42		Opening weighted average remaining useful life of relevant assets (years)			25
43					

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section

sch ref				
44	**5a(iv): Amortisation of Revaluations**			**($000)**
45				
46		Opening sum of RAB values without revaluations	101,083	
47				
48		Adjusted depreciation	3,416	
49		Total depreciation	4,587	
50		Amortisation of revaluations		1,172
51				
52	**5a(v): Reconciliation of Tax Losses**			**($000)**
53				
54		**Opening tax losses**		
55	*plus*	Current period tax losses		
56	*less*	Utilised tax losses		
57		**Closing tax losses**		–
58	**5a(vi): Calculation of Deferred Tax Balance**			**($000)**
59				
60		**Opening deferred tax**	(5,438)	
61				
62	*plus*	Tax effect of adjusted depreciation	956	
63				
64	*less*	Tax effect of tax depreciation	1,195	
65				
66	*plus*	Tax effect of other temporary differences*	(104)	
67				
68	*less*	Tax effect of amortisation of initial differences in asset values	448	
69				
70	*plus*	Deferred tax balance relating to assets acquired in the disclosure year		
71				
72	*less*	Deferred tax balance relating to assets disposed in the disclosure year	(33)	
73				
74	*plus*	Deferred tax cost allocation adjustment	(0)	
75				
76		**Closing deferred tax**		(6,195)
77				
78	**5a(vii): Disclosure of Temporary Differences**			
79		*In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).*		
80				
81	**5a(viii): Regulatory Tax Asset Base Roll-Forward**			
82				**($000)**
83		**Opening sum of regulatory tax asset values**	47,318	
84	*less*	Tax depreciation	4,267	
85	*plus*	Regulatory tax asset value of assets commissioned	7,162	
86	*less*	Regulatory tax asset value of asset disposals	12	
87	*plus*	Lost and found assets adjustment	–	
88	*plus*	Adjustment resulting from asset allocation	–	
89	*plus*	Other adjustments to the RAB tax value	–	
90		**Closing sum of regulatory tax asset values**		50,201

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID determination.
This information is part of audited disclosure information (as defined in clause 1.4 of the ID determination), and so is subject to the assurance report required by clause 2.8.

sch ref

5b(i): Summary—Related Party Transactions

	($000)	($000)
Total regulatory income		–
Market value of asset disposals		–
Service interruptions and emergencies	1,451	
Vegetation management	1,013	
Routine and corrective maintenance and inspection	966	
Asset replacement and renewal (opex)	579	
Network opex		4,009
Business support	–	
System operations and network support	336	
Operational expenditure		4,345
Consumer connection	1,230	
System growth	1,222	
Asset replacement and renewal (capex)	1,906	
Asset relocations	(0)	
Quality of supply	166	
Legislative and regulatory	–	
Other reliability, safety and environment	139	
Expenditure on non-network assets		–
Expenditure on assets		4,661
Cost of financing		
Value of capital contributions		
Value of vested assets		
Capital Expenditure		4,661
Total expenditure		9,006
Other related party transactions		

5b(iii): Total Opex and Capex Related Party Transactions

Name of related party	Nature of opex or capex service provided	Total value of transactions ($000)
Waikato Tree Services	Vegetation management	1,013
Waipa Networks - Contracting	Service interruptions and emergencies	1,451
Waipa Networks - Contracting	Routine and corrective maintenance and inspection	966
Waipa Networks - Contracting	Asset replacement and renewal (opex)	579
Waipa Networks - Contracting	System operations and network support	336
Waipa Networks - Contracting	Consumer connection	1,230
Waipa Networks - Contracting	System growth	1,222
Waipa Networks - Contracting	Asset replacement and renewal (capex)	1,906
Waipa Networks - Contracting	Asset relocations	(0)
Waipa Networks - Contracting	Quality of supply	166
Waipa Networks - Contracting	Legislative and regulatory	–
Waipa Networks - Contracting	Other reliability, safety and environment	139
	[Select one]	
	[Select one]	
	[Select one]	
Total value of related party transactions		9,006

** include additional rows if needed*

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5c(i): Qualifying Debt (may be Commission only)

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
** include additional rows if needed*						–	–	–

5c(ii): Attribution of Term Credit Spread Differential

Gross term credit spread differential		–
Total book value of interest bearing debt		
Leverage	42%	
Average opening and closing RAB values		
Attribution Rate (%)		–
Term credit spread differential allowance		–

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(i): Operating Cost Allocations

		Value allocated ($000s)			
	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		1,451			
Not directly attributable				–	
Total attributable to regulated service		1,451			
Vegetation management					
Directly attributable		1,013			
Not directly attributable				–	
Total attributable to regulated service		1,013			
Routine and corrective maintenance and inspection					
Directly attributable		966			
Not directly attributable				–	
Total attributable to regulated service		966			
Asset replacement and renewal					
Directly attributable		579			
Not directly attributable				–	
Total attributable to regulated service		579			
System operations and network support					
Directly attributable		2,693			
Not directly attributable		146	336	482	
Total attributable to regulated service		2,839			
Business support					
Directly attributable		325			
Not directly attributable		2,120	430	2,550	
Total attributable to regulated service		2,445			
Operating costs directly attributable		7,027			
Operating costs not directly attributable	–	2,266	766	3,032	–
Operational expenditure		9,293			

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(ii): Other Cost Allocations

		($000)
	Pass through and recoverable costs	
	Pass through costs	
	Directly attributable	185
	Not directly attributable	
	Total attributable to regulated service	185
	Recoverable costs	
	Directly attributable	7,877
	Not directly attributable	
	Total attributable to regulated service	7,877

5d(iii): Changes in Cost Allocations* †

Change in cost allocation 1

			($000)	
			CY-1	**Current Year (CY)**
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in cost allocation 2

			($000)	
			CY-1	**Current Year (CY)**
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in cost allocation 3

			($000)	
			CY-1	**Current Year (CY)**
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

** a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*
† include additional rows if needed

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4.
EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5e(i): Regulated Service Asset Values

	Value allocated ($000s) Electricity distribution services
Subtransmission lines	
Directly attributable	18,833
Not directly attributable	
Total attributable to regulated service	18,833
Subtransmission cables	
Directly attributable	
Not directly attributable	
Total attributable to regulated service	–
Zone substations	
Directly attributable	
Not directly attributable	
Total attributable to regulated service	–
Distribution and LV lines	
Directly attributable	28,076
Not directly attributable	
Total attributable to regulated service	28,076
Distribution and LV cables	
Directly attributable	23,646
Not directly attributable	
Total attributable to regulated service	23,646
Distribution substations and transformers	
Directly attributable	30,186
Not directly attributable	
Total attributable to regulated service	30,186
Distribution switchgear	
Directly attributable	17,750
Not directly attributable	
Total attributable to regulated service	17,750
Other network assets	
Directly attributable	5,450
Not directly attributable	
Total attributable to regulated service	5,450
Non-network assets	
Directly attributable	2,069
Not directly attributable	969
Total attributable to regulated service	3,038
Regulated service asset value directly attributable	126,010
Regulated service asset value not directly attributable	969
Total closing RAB value	126,979

5e(ii): Changes in Asset Allocations* †

Change in asset value allocation 1

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in asset value allocation 2

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in asset value allocation 3

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

** a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*
† include additional rows if needed

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.
EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6a(i): Expenditure on Assets

			($000)	($000)
8		Consumer connection		3,098
9		System growth		2,526
10		Asset replacement and renewal		3,061
11		Asset relocations		69
12		Reliability, safety and environment:		
13		Quality of supply	109	
14		Legislative and regulatory	–	
15		Other reliability, safety and environment	802	
16		**Total reliability, safety and environment**		910
17		**Expenditure on network assets**		9,665
18		Expenditure on non-network assets		1,918
19				
20		**Expenditure on assets**		11,583
21	*plus*	Cost of financing		–
22	*less*	Value of capital contributions		4,509
23	*plus*	Value of vested assets		–
24				
25		**Capital expenditure**		7,073

6a(ii): Subcomponents of Expenditure on Assets (where known)

			($000)
27		Energy efficiency and demand side management, reduction of energy losses	–
28		Overhead to underground conversion	519
29		Research and development	–

6a(iii): Consumer Connection

		*Consumer types defined by EDB**	($000)	($000)
32		Residential	2,638	
33		General	459	
34		11kV	–	
35			–	
36			–	
37		** include additional rows if needed*		
38		**Consumer connection expenditure**		3,098
39				
40	*less*	Capital contributions funding consumer connection expenditure	2,538	
41		**Consumer connection less capital contributions**		560

6a(iv): System Growth and Asset Replacement and Renewal

			System Growth ($000)	Asset Replacement and Renewal ($000)
45		Subtransmission	–	–
46		Zone substations	–	–
47		Distribution and LV lines	712	201
48		Distribution and LV cables	1,238	457
49		Distribution substations and transformers	130	932
50		Distribution switchgear	447	1,339
51		Other network assets	–	133
52		**System growth and asset replacement and renewal expenditure**	2,526	3,061
53	*less*	Capital contributions funding system growth and asset replacement and renewal	1,413	447
54		**System growth and asset replacement and renewal less capital contributions**	1,114	2,614
55				

6a(v): Asset Relocations

		*Project or programme**	($000)	($000)
58				
59				
60				
61				
62				
63		** include additional rows if needed*		
64		All other projects or programmes - asset relocations	69	
65		**Asset relocations expenditure**		69
66	*less*	Capital contributions funding asset relocations	70	
67		**Asset relocations less capital contributions**		(2)

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.
EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6a(vi): Quality of Supply

			($000)	($000)
		*Project or programme**		
		Install 11kV Dropout fuses spurs & services	15	
		Disconnectors	–	
		Install remote control switches	1	
		Install TMU-HTI 110kV line	20	
		St Kilda Feeder reconfiguration	1	
		** include additional rows if needed*		
		All other projects programmes - quality of supply	72	
		Quality of supply expenditure		109
	less	Capital contributions funding quality of supply	13	
		Quality of supply less capital contributions		96

6a(vii): Legislative and Regulatory

			($000)	($000)
		*Project or programme**		
		** include additional rows if needed*		
		All other projects or programmes - legislative and regulatory		
		Legislative and regulatory expenditure		–
	less	Capital contributions funding legislative and regulatory		
		Legislative and regulatory less capital contributions		–

6a(viii): Other Reliability, Safety and Environment

			($000)	($000)
		*Project or programme**		
		Replace two pole sub structure	29	
		** include additional rows if needed*		
		All other projects or programmes - other reliability, safety and environment	772	
		Other reliability, safety and environment expenditure		802
	less	Capital contributions funding other reliability, safety and environment	29	
		Other reliability, safety and environment less capital contributions		772

6a(ix): Non-Network Assets

Routine expenditure

			($000)	($000)
		*Project or programme**		
		** include additional rows if needed*		
		All other projects or programmes - routine expenditure	1,176	
		Routine expenditure		1,176

Atypical expenditure

			($000)	($000)
		*Project or programme**		
		IT Foundations software upgrades	656	
		** include additional rows if needed*		
		All other projects or programmes - atypical expenditure	86	
		Atypical expenditure		742
		Expenditure on non-network assets		1,918

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.
EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		($000)	($000)
7	**6b(i): Operational Expenditure**		
8	Service interruptions and emergencies	1,451	
9	Vegetation management	1,013	
10	Routine and corrective maintenance and inspection	966	
11	Asset replacement and renewal	579	
12	**Network opex**		4,009
13	System operations and network support	2,839	
14	Business support	2,445	
15	**Non-network opex**		5,284
16			
17	**Operational expenditure**		9,293
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		
20	Direct billing*		N/A
21	Research and development		N/A
22	Insurance		
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.
EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref

		Target ($000) [1]	Actual ($000)	% variance
7	**7(i): Revenue**			
8	Line charge revenue	31,493	26,830	(15%)
		Forecast ($000) [2]	**Actual ($000)**	**% variance**
9	**7(ii): Expenditure on Assets**			
10	Consumer connection	3,738	3,098	(17%)
11	System growth	3,138	2,526	(19%)
12	Asset replacement and renewal	4,541	3,061	(33%)
13	Asset relocations	178	69	(61%)
14	Reliability, safety and environment:			
15	Quality of supply	1,474	109	(93%)
16	Legislative and regulatory	–	–	–
17	Other reliability, safety and environment	588	802	36%
18	**Total reliability, safety and environment**	2,062	910	(56%)
19	**Expenditure on network assets**	13,657	9,665	(29%)
20	Expenditure on non-network assets	4,442	1,918	(57%)
21	Expenditure on assets	18,099	11,583	(36%)
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	1,003	1,451	45%
24	Vegetation management	1,060	1,013	(4%)
25	Routine and corrective maintenance and inspection	1,478	966	(35%)
26	Asset replacement and renewal	621	579	(7%)
27	**Network opex**	4,162	4,009	(4%)
28	System operations and network support	2,437	2,839	16%
29	Business support	3,117	2,445	(22%)
30	**Non-network opex**	5,554	5,284	(5%)
31	**Operational expenditure**	9,716	9,293	(4%)
32	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
33	Energy efficiency and demand side management, reduction of energy losses		–	–
34	Overhead to underground conversion		519	–
35	Research and development		–	–
36				
37	**7(v): Subcomponents of Operational Expenditure (where known)**			
38	Energy efficiency and demand side management, reduction of energy losses		–	–
39	Direct billing		N/A	–
40	Research and development		N/A	–
41	Insurance		–	–
42				

43 *1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*

44 *2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)*

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**
Network / Sub-Network Name	

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

sch ref

8(i): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Billed quantities by price component																		Add extra columns for additional billed quantities by price component as necessary
Price component					Combined	Uncontrolled	Controlled	Night only	Day	Night	Peak	Off Peak	Shoulder	Peak All Inclusive	Off Peak All Inclusive	Shoulder All Inclusive	StreetLights	Builders Temporary	Fixed Daily Charge	Capacity Charge	Monthly Charge	Transformer	
Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)					kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	
Domestic	Residential	Standard	22,066	169,983	37,634,873	98,579,427	23,052,532	1,023,471	–	–	4,246,482	2,298,504	3,008,436	56,096	35,334	47,874							Completed by TEC
Non Domestic	General	Standard	5,418	106,020		86,311,989	11,629,213	491,146	–	–	2,182,272	1,564,291	2,215,983				1,392,640	232,007					Completed by TEC
Unmetered	General	Standard	–	–																			Completed by TEC
400V Capacity Contract	General	Standard	59	34,151							12,492,808	8,676,730	12,981,306										Completed by TEC
11KV	General	Standard	8	16,432							6,128,464	4,292,771	6,011,241										Completed by TEC
11KV	General	Non-standard	3	71,328		71,328,366																	Completed by TEC
		[Select one]																					Completed by TEC
		[Select one]																					Completed by TEC
		[Select one]																					Completed by TEC
		[Select one]																					Completed by TEC
Add extra rows for additional consumer groups or price category codes as necessary																							
		Standard consumer totals	27,550	326,586	37,634,873	184,891,416	34,681,745	1,514,617	–	–	25,050,026	16,832,301	24,216,966	56,096	35,334	47,874	1,392,640	232,007	–	–	–	–	
		Non-standard consumer totals	3	71,328	–	71,328,366	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
		Total for all consumers	27,553	397,914	37,634,873	256,219,782	34,681,745	1,514,617	–	–	25,050,026	16,832,301	24,216,966	56,096	35,334	47,874	1,392,640	232,007	–	–	–	–	

Company Name **Waipa Networks Limited**
For Year Ended **31 March 2021**
Network / Sub-Network Name

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

8(ii): Line Charge Revenues ($000) by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Line charge revenues ($000) by price component: Price component	Combined	Uncontrolled	Controlled	Night only	Day	Night	Peak	Off Peak	Shoulder	Peak All Inclusive	Off Peak All Inclusive	Shoulder All Inclusive	StreetLights	Builders Temporary	Fixed Daily Charge	Capacity Charge	Monthly Charge	Transformer	*Add extra columns for additional line charge revenues by price component as necessary*
							Rate (eg, $ per day, $ per kWh, etc.)	$ per kwh	$ per kwh	$ per kwh	$ per kwh	$ per kwh	$ per kwh	$ per kwh	$ per kwh	$ per kwh	$ per kwh	$ per kwh	$ per day	kVA of capacity	$ per Month	$ per Day	Days	$ per Month	$ per kVA/month	
Domestic	Residential	Standard	$13,190		$13,190			$2,760	$8,044	$385	$12	–	–	$510	$27	$228	$8	$1	$4			$1,210				
Non Domestic	Commercial	Standard	$7,893		$7,893				$7,043	$184	$6	–	–	$267	$19	$168				$127	$26	$48				
Unmetered	Commercial	Standard	$565		$565																	$565				
400V Capacity Contract	Commercial	Standard	$2,184		$2,184									$640	$103	$455						$986				
11KV	Commercial	Standard	$1,190		$1,190									$338	$62	$244						$484				$46
11KV	Commercial	Non-standard	$1,808		$1,808																			$1,808		
		[Select one]	–		–																					
		[Select one]	–		–																					
		[Select one]	–		–																					
		[Select one]	–		–																					
Add extra rows for additional consumer groups or price category codes as necessary																										
		Standard consumer totals	$25,022	–	$25,022	–		$2,760	$15,087	$580	$18	–	–	$1,768	$211	$1,095	$8	$1	$4	$127	$26	$3,293	–	–	$45	
		Non-standard consumer totals	$1,808	–	$1,808	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	$1,808	–	
		Total for all consumers	$26,830	–	$26,830	–		$2,760	$15,087	$580	$18	–	–	$1,768	$211	$1,095	$8	$1	$4	$127	$26	$3,293	–	$1,808	$45	

Check OK

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	3

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**
Network / Sub-network Name	

SCHEDULE 9a: ASSET REGISTER

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
8								
9	All	Overhead Line	Concrete poles / steel structure	No.	20,860	20,876	16	4
10	All	Overhead Line	Wood poles	No.	1,581	1,581	–	4
11	All	Overhead Line	Other pole types	No.	3	3	–	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	–	[Select one]
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	36	36	–	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	[Select one]
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	[Select one]
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	[Select one]
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	[Select one]
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	[Select one]
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	[Select one]
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	[Select one]
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	[Select one]
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	[Select one]
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	–	[Select one]
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	[Select one]
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	[Select one]
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	[Select one]
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	[Select one]
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	[Select one]
29	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	[Select one]
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	[Select one]
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	[Select one]
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	[Select one]
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	[Select one]
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	–	[Select one]
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,229	1,229	–	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	[Select one]
37	HV	Distribution Line	SWER conductor	km	–	–	–	[Select one]
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	147	147	–	4
39	HV	Distribution Cable	Distribution UG PILC	km	1	1	–	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	[Select one]
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	119	119	–	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	[Select one]
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	5,188	5,347	159	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	[Select one]
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	118	119	1	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	2,745	2,779	34	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	816	817	1	4
48	HV	Distribution Transformer	Voltage regulators	No.	60	60	–	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	[Select one]
50	LV	LV Line	LV OH Conductor	km	507	507	–	4
51	LV	LV Cable	LV UG Cable	km	326	326	0	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	151	151	–	4
53	LV	Connections	OH/UG consumer service connections	No.	26,574	27,129	555	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	[Select one]
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	–	4
56	All	Capacitor Banks	Capacitors including controls	No	–	–	–	[Select one]
57	All	Load Control	Centralised plant	Lot	3	3	–	4
58	All	Load Control	Relays	No	18,757	18,902	145	4
59	All	Civils	Cable Tunnels	km	–	–	–	[Select one]

Company Name **Waipa Networks Limited**
For Year Ended **31 March 2021**
Network / Sub-network Name

SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

8 **Disclosure Year (year ended)** 31 March 2021

Number of assets at disclosure year end by installation date

sch ref	Voltage	Asset category	Asset class	Units	pre-1940	1940–1949	1950–1959	1960–1969	1970–1979	1980–1989	1990–1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	No. with age unknown	Items at end of year	No. with default dates	Data accuracy (1–4)
9																																									
10	All	Overhead Line	Concrete poles / steel structure	No.	–	–	10	1,675	3,429	8,567	2,543	194	204	203	289	212	266	205	204	252	249	312	258	221	239	248	161	341	145	201	30	202	16						20,876		4
11	All	Overhead Line	Wood poles	No.	–	–	17	244	226	462	519	3	6	1	3	2	1	5	6	1	1	44	–	28	1	–	–	–	–	6	3	2	–						1,581		4
12	All	Overhead Line	Other pole types	No.	–	–	–	–	–	1	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–						3		4
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	35	–	–	–	–	–						36		4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
30	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0	–	–	0	31	874	302	4	5	0	7	0	0	3	0	2	0	1	–	0	0	–	0	–	–	–	–	–	–						1,229		4
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
38	HV	Distribution Line	SWER conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	0	–	–	3	7	18	21	2	3	3	3	6	8	13	7	6	4	2	1	2	6	4	2	5	6	5	2	6	–						147		4
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	–	1	0	0	0	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–	–	–	–	–	–						1		4
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser	No.	–	–	–	–	1	1	–	–	–	–	–	8	4	5	7	8	5	13	12	15	13	12	11	–	–	–	–	4	–						119		4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	1	9	106	302	972	540	394	49	109	90	154	126	161	164	155	150	142	131	175	169	193	199	164	162	155	158	22	36	159						5,347		4
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	–	–	–	–	1	–	–	–	–	–	1	5	8	9	5	13	8	4	4	7	9	2	7	4	11	10	2	8	1						119		4
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	1	–	39	217	236	429	397	43	61	81	65	68	94	94	44	114	61	50	85	70	79	118	62	92	56	70	1	18	34						2,779		4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	–	–	–	6	44	64	52	20	19	10	19	21	45	28	43	41	44	29	49	42	46	40	32	45	30	31	–	16	1						817		4
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	–	6	2	5	1	6	–	5	4	3	9	–	–	–	3	–	–	–	2	5	–	–	3	–	6	–						60		4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–								–		[Select one]
51	LV	LV Line	LV OH Conductor	km	0	–	–	–	10	380	113	3	1	0	1	0	0	–	0	0	–	–	–	–	0	–	–	–	0	0	–	0	–						507		4
52	LV	LV Cable	LV UG Cable	km	–	–	–	4	32	49	45	6	4	3	7	11	15	12	15	16	8	5	5	6	13	10	9	11	15	11	4	10	0						326		4
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	0	–	–	1	13	66	21	3	0	0	0	1	5	3	4	4	2	2	0	1	3	3	3	3	7	4	1	2	–						151		4
54	LV	Connections	OH/UG consumer service connections	No.	5	76	942	3,977	4,915	4,982	3,193	307	283	326	434	439	534	563	616	443	372	366	348	370	468	518	549	598	583	130	104	133	555						27,129		4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
56	All	SCADA and communications	SCADA and communications equipment operating as a single sys	Lot	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						1		4
57	All	Capacitor Banks	Capacitors including controls	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]
58	All	Load Control	Centralised plant	Lot	–	–	–	–	1	–	–	1	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						3		4
59	All	Load Control	Relays	No	–	2	29	134	81	88	352	100	1,302	6,828	87	84	30	231	345	1,353	1,939	1,100	771	1,318	952	886	23	259	268	165	1	29	145						18,902		4
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–						–		[Select one]

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**
Network / Sub-network Name	

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref				
9				
10	**Circuit length by operating voltage (at year end)**	**Overhead (km)**	**Underground (km)**	**Total circuit length (km)**
11	> 66kV	36	–	36
12	50kV & 66kV	–	–	–
13	33kV	–	–	–
14	SWER (all SWER voltages)	–	–	–
15	22kV (other than SWER)	–	–	–
16	6.6kV to 11kV (inclusive—other than SWER)	1,232	167	1,398
17	Low voltage (< 1kV)	505	332	837
18	**Total circuit length (for supply)**	1,773	498	2,271
19				
20	Dedicated street lighting circuit length (km)	67	87	154
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			–
22				
23	**Overhead circuit length by terrain (at year end)**	**Circuit length (km)**	**(% of total overhead length)**	
24	Urban	213	12%	
25	Rural	1,467	83%	
26	Remote only	–	–	
27	Rugged only	80	4%	
28	Remote and rugged	–	–	
29	Unallocated overhead lines	13	1%	
30	**Total overhead length**	1,773	100%	
31				
32		**Circuit length (km)**	**(% of total circuit length)**	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	161	7%	
34		**Circuit length (km)**	**(% of total overhead length)**	
35	Overhead circuit requiring vegetation management	1,268	72%	

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**

SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

sch ref	Location *	Number of ICPs served	Line charge revenue ($000)
9	Lakewood	67	93,870
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

26 ** Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network*

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**
Network / Sub-network Name	

SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

9e(i): Consumer Connections

Number of ICPs connected in year by consumer type

*Consumer types defined by EDB**	Number of connections (ICPs)
Residential	445
General	103
Unmetered	–
11KV	

** include additional rows if needed*

Connections total	548	

Distributed generation

Number of connections made in year	95	**connections**
Capacity of distributed generation installed in year	0.98	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	83	
plus	Distributed generation output at HV and above		
	Maximum coincident system demand	83	
less	Net transfers to (from) other EDBs at HV and above		
	Demand on system for supply to consumers' connection points	83	

		Energy (GWh)	
	Electricity volumes carried		
	Electricity supplied from GXPs	416	
less	Electricity exports to GXPs		
plus	Electricity supplied from distributed generation	2	
less	Net electricity supplied to (from) other EDBs		
	Electricity entering system for supply to consumers' connection points	417	
less	Total energy delivered to ICPs	398	
	Electricity losses (loss ratio)	20	4.7%
	Load factor	0.57	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	279
Distribution transformer capacity (Non-EDB owned, estimated)	6
Total distribution transformer capacity	286
Zone substation transformer capacity	n/a

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**
Network / Sub-network Name	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

10(i): Interruptions

	Number of interruptions
Interruptions by class	
Class A (planned interruptions by Transpower)	
Class B (planned interruptions on the network)	148
Class C (unplanned interruptions on the network)	133
Class D (unplanned interruptions by Transpower)	–
Class E (unplanned interruptions of EDB owned generation)	
Class F (unplanned interruptions of generation owned by others)	
Class G (unplanned interruptions caused by another disclosing entity)	
Class H (planned interruptions caused by another disclosing entity)	
Class I (interruptions caused by parties not included above)	
Total	281

	≤3Hrs	>3hrs
Interruption restoration		
Class C interruptions restored within	78	55

	SAIFI	SAIDI
SAIFI and SAIDI by class		
Class A (planned interruptions by Transpower)	–	–
Class B (planned interruptions on the network)	0.36	118.4
Class C (unplanned interruptions on the network)	1.36	139.0
Class D (unplanned interruptions by Transpower)	–	–
Class E (unplanned interruptions of EDB owned generation)		
Class F (unplanned interruptions of generation owned by others)		
Class G (unplanned interruptions caused by another disclosing entity)		
Class H (planned interruptions caused by another disclosing entity)		
Class I (interruptions caused by parties not included above)		
Total	1.73	257.3

	Normalised SAIFI	Normalised SAIDI
Normalised SAIFI and SAIDI		
Classes B & C (interruptions on the network)	1.73	257.3

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2021**
Network / Sub-network Name	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

10(ii): Class C Interruptions and Duration by Cause

Cause	SAIFI	SAIDI
Lightning	0.01	1.0
Vegetation	0.31	46.6
Adverse weather	0.13	25.3
Adverse environment	–	–
Third party interference	0.28	35.8
Wildlife	0.02	1.1
Human error	0.06	2.9
Defective equipment	0.32	20.4
Cause unknown	0.23	6.0

10(iii): Class B Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines		
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.30	93.2
Distribution cables (excluding LV)	0.03	12.1
Distribution other (excluding LV)	0.03	13.1

10(iv): Class C Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines		
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	1.03	119.2
Distribution cables (excluding LV)	–	–
Distribution other (excluding LV)	0.33	19.8

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines			–
Subtransmission cables			–
Subtransmission other			
Distribution lines (excluding LV)	113	1,232	9.17
Distribution cables (excluding LV)	–	167	–
Distribution other (excluding LV)	20		
Total	133		