Chorus Information Disclosure Requirements

Information Templates

for

Schedules 1-13

Regulated Provider	Chorus
Disclosure Date	29 May 2026
Disclosure Year (year ended)	31 December 2025

Templates for Schedules 1-13

Template Version 3. Prepared April 2024

Workbook Version History

Workbook Version and Date	Determination
v1, 30 November 2021	Fibre ID Determination 2021 [2021] NZCC 24
v2, 28 July 2022	Fibre ID Amendment Determination 2022 [2022] NZCC 26
v3, 3 April 2024	Fibre ID (Non-material) Amendment Determination [2024] NZCC 4

Table of Contents

Schedule	Schedule name	Sheetname	Description
1a	REPORT ON ID FFLAS RETURN ON INVESTMENT	S1a.ID FFLAS IRR	This Schedule requires information on the ID FFLAS Return on Investment (ROI) relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. Chorus must provide explanatory comment on its ROI in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
1b	REPORT ON PQ FFLAS RETURN ON INVESTMENT	S1b.PQ FFLAS IRR	This Schedule requires information on the PQ FFLAS Return on Investment (ROI) relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. Chorus must provide explanatory comment on its ROI in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
1c	REPORT ON ID-ONLY FFLAS RETURN ON INVESTMENT	S1c.ID-only FFLAS IRR	This Schedule requires information on the ID-only FFLAS Return on Investment (ROI) relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. Chorus must provide explanatory comment on its ROI in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
2	REPORT ON REGULATORY PROFIT	S2.Regulatory Profit	This Schedule requires information on the calculation of regulatory profit for Chorus for the disclosure year, including providing explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).This information is part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
3	REPORT ON REGULATORY TAX ALLOWANCE	S3.Regulatory Tax Allowance	This Schedule requires information from Chorus on its calculation of regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 2 (Report on Regulatory Profit). Chorus 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 clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
4a	REPORT ON ASSET ALLOCATIONS	S4a.Asset Allocations	This Schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedules 4b, 4c, and 4d.Chorus must provide explanatory commentary on the information disclosed in this Schedule 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 clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
4b	REPORT ON VALUE OF THE ID FFLAS REGULATORY ASSET BASE ROLLED FORWARD	S4b.ID RAB Value Rolled F.	This Schedule requires information on the calculation of the ID FFLAS Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 1a. Chorus 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 clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
4c	REPORT ON VALUE OF THE PQ FFLAS REGULATORY ASSET BASE ROLLED FORWARD	S4c.PQ RAB Value Rolled F.	This Schedule requires information on the calculation of the PQ FFLAS Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedules 1a and 1b. Chorus 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 clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
4d	REPORT ON VALUE OF THE ID-ONLY FFLAS REGULATORY ASSET BASE ROLLED FORWARD	S4d. ID-only RAB Value Rolled F.	This Schedule requires information on the calculation of the ID-only FFLAS Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedules 1a and 1c. Chorus 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 clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
5	REPORT ON OPERATING EXPENDITURE	S5. Actual Expenditure Opex	This Schedule requires a breakdown of operating expenditure incurred in the disclosure year. Chorus 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 clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
5a	REPORT ON COST ALLOCATIONS	S5a.Cost Allocations	This Schedule provides information on the allocation of operating costs. Chorus must provide explanatory commentary on the information disclosed in this Schedule in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
6	REPORT ON CAPITAL EXPENDITURE	S6. Actual Expenditure Capex	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. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. Chorus 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 clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
7	REPORT ON COMPARISON OF FORECAST TO ACTUAL EXPENDITURE	S7. Actual vs Forecast	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. ID-regulated providers must provide explanatory commentary on the variance between actual and target revenue and forecast expenditure in Schedule 14 or 14A (Mandatory Explanatory Notes), as applicable. This information is part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination. For the purpose of that assurance report, target revenue and forecast expenditures only need to be verified back to previous disclosures. Total target operating revenue should equal the sum of the nominal dollar target revenue for the disclosure year across all contracts disclosed to the Commission under clause 2.5.11(2) of this determination.
8a	REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE	S8a. TCSD Allowance	Under clause 2.4.2 of the main body of the determination, Chorus must only complete sections 8a(i) and 8a(ii) 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 clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
8b	REPORT ON CROWN FINANCING AND NOTIONAL DEDUCTIBLE INTEREST	S8b. Crown financing & NDI	This Schedule requires information on the roll-forward of Crown financing and the calculation of notional deductible interest for the disclosure year. Chorus must complete all sections and provide explanatory comment on its Crown financing in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
9	REPORT ON RELATED PARTY TRANSACTIONS	S9.Related Party Transactions	This Schedule provides information on the valuation of related party transactions for the purpose of clause 2.3.1 of the main body of the determination. This information is part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination), and so is subject to the assurance report required by clause 2.7 of the main body of the determination.
10a	REPORT ON PQ FFLAS ASSET REGISTER	S10a.PQ Asset Register	This Schedule requires a summary of the quantity of PQ FFLAS assets that make up the network, by asset category and asset class, the estimated condition of the assets, a forecast of the percentage of assets to be replaced and the age profile of assets.
10b	REPORT ON ID-ONLY FFLAS ASSET REGISTER	S10b. ID-only Asset Register	This Schedule requires a summary of the quantity of ID-only assets that make up the network, by asset category and asset class, the estimated condition of the assets, a forecast of the percentage of assets to be replaced and the age profile of assets.
11	REPORT ON FORECAST CAPITAL EXPENDITURE	S11.Capex Forecast	This Schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 5 year planning period. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions) Chorus must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14 (Mandatory Explanatory Notes).This information is not part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination).
11a	REPORT ON FORECAST OPERATING EXPENDITURE	S11a. Opex Forecast	This Schedule requires a breakdown of forecast operating expenditure for the disclosure year and a 5 year planning period. The forecast is to be expressed in both constant price and nominal dollar terms. Chorus must provide explanatory comment on the difference between constant price and nominal dollar operating expenditure forecasts in Schedule 14 (Mandatory Explanatory Notes).This information is not part of audited disclosure information (as defined in clause 1.4.3 of the main body of the determination).
12	REPORT ON FORECAST CAPACITY AND UTILISATION	S12. Capacity Forecast	This Schedule requires a breakdown of current and forecast capacity and utilisation for each area. Information provided in this table should relate to the operation of the network in its normal steady state configuration.
12a	REPORT ON FORECAST NETWORK DEMAND	S12a.Demand Forecast	This Schedule requires a forecast of new connections (by consumer type), peak demand and data volumes for the disclosure year and a 5 year planning period. The forecasts should be consistent with the assumptions used in developing the expenditure forecasts in Schedules 11 and Schedule 11a and the capacity and utilisation forecasts in Schedule 12.
13	REPORT ON ASSET MANAGEMENT CAPABILITY	S13.Asset Management_1 & S13.Asset Management_2	This Schedule requires information on Chorus's self-assessment of the maturity of its asset management practices and a descriptions of its practices for collecting and managing network data, making risk-based decisions and managing cost estimation models.

Disclosure Template Instructions

These templates have been prepared for use by Chorus when making disclosures under clauses 2.3.1 and 2.3.2 of the main body of the determination.

Company Name and Dates

To prepare the templates for disclosure, the date of the last day of the current (disclosure) year should be entered in cell C13, and the date on which the information is disclosed should be entered in cell C11 of the CoverSheet worksheet.

The cell C13 entry (Disclosure Year, Year ended) 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. Dates should be entered in day/month/year order (Example "31 December 2021").

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.

Checking tables

Some schedules have associated checking tables to aid data input consistency. These are located out of the page print area where possible.

Inserting Additional Rows and Columns

The templates for some Schedules may require additional rows to be inserted in tables marked 'include additional rows if needed' or similar. When inserting rows do so from within the table and the 'Row" column should prepopulate with the row number.

Additional rows 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.

Schedule References

The column labelled "Row "of each table can be used to reference individual rows of the schedule. It may be useful to refer to this row number when writing explanatory notes about a specific data point.

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.

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 8a, 8b, 3
3. Schedules 4a, 5a
4. Schedules 5, 6
5. Schedule 2
6. Schedule 4b, 4c, 4d
7. Schedule 7
8. Schedules 1a, 1b, 1c, 9
9. All remaining Schedules

Cell colouring

1. Light yellow: Data entry
2. Dark yellow: Data entry - provided to Commission only
3. Light grey: Formula
4. Dark grey: Blank/ empty columns

SCHEDULE 1a: REPORT ON ID FFLAS RETURN ON INVESTMENT

1a(i): Return on Investment

Section	Row	Context	Category1	Category2	CY-2| %	CY-1| %	Current Year CY| %	
1a(i): Return on Investment	4		**ROI - comparable to a post tax WACC**	Reflecting all revenue earned	6.35%	5.27%	7.47%	from row 38
1a(i): Return on Investment	5		ROI - comparable to a post tax WACC	Excluding revenue earned from wash-ups	5.66%	5.27%	7.47%	from row 8, 34-37
1a(i): Return on Investment	6		ROI - comparable to a post tax WACC	**Mid-point estimate of post tax WACC**	7.38%	7.77%	6.91%	
1a(i): Return on Investment	7		**ROI - comparable to a vanilla WACC**	Reflecting all revenue earned	6.75%	5.71%	7.81%	from row 33
1a(i): Return on Investment	8		ROI - comparable to a vanilla WACC	Excluding revenue earned from wash-ups	6.06%	5.71%	7.81%	from R29 mid yr IRR calcs
1a(i): Return on Investment	9		ROI - comparable to a vanilla WACC	**Mid-point estimate of vanilla WACC**	7.90%	8.32%	7.36%	
1a(i): Return on Investment	10		ROI - comparable to a vanilla WACC	**Standard error**	1.31%	1.31%	1.31%	

1a(ii): Information Supporting the ROI

Section	Row	Context	Category1	Category2	$000	
1a(ii): Information Supporting the ROI	16		**Opening RAB value**		5,949,325	
1a(ii): Information Supporting the ROI	17		**Operating revenue**		866,240	from S2
1a(ii): Information Supporting the ROI	18		Mid-year net cash outflows	Expenditure	210,984.84	from s2
1a(ii): Information Supporting the ROI	19	plus	Mid-year net cash outflows	Assets commissioned	346,737.33	from S4b
1a(ii): Information Supporting the ROI	20	less	Mid-year net cash outflows	Asset disposals	704.59	from S4b
1a(ii): Information Supporting the ROI	21	plus	Mid-year net cash outflows	Tax payments	1,342.55	from s2
1a(ii): Information Supporting the ROI	22	less	Mid-year net cash outflows	Other regulated income	6,618.84	from s2
1a(ii): Information Supporting the ROI	23		**Mid-year net cash outflows**		551,741.29	
1a(ii): Information Supporting the ROI	24		**Term credit spread differential allowance**		2,126	from S2
1a(ii): Information Supporting the ROI	25		Closing RAB value	Total closing RAB value	6,047,244	from S4b
1a(ii): Information Supporting the ROI	26	less	Closing RAB value	Adjustment resulting from asset allocation	34,761	from S4b
1a(ii): Information Supporting the ROI	27		**Closing RAB value**		6,012,483	

1a(ii): Information Supporting the ROI

Section	Row	Context	Category1	Category2	%	
1a(ii): Information Supporting the ROI	32		**ROI - before benefit of crown financing and after adjustment for asset stranding allowance**		6.29%	
1a(ii): Information Supporting the ROI	33		**ROI - comparable to a vanilla WACC**		7.81%	from row R29 mid yr IRR calcs.
1a(ii): Information Supporting the ROI	34		ROI - comparable to a post tax WACC	Leverage (%)	29.00%	
1a(ii): Information Supporting the ROI	35		ROI - comparable to a post tax WACC	Cost of debt assumption (%)	5.54%	from S1b
1a(ii): Information Supporting the ROI	36		ROI - comparable to a post tax WACC	Corporate tax rate (%)	28.00%	from S3
1a(ii): Information Supporting the ROI	37		ROI - comparable to a post tax WACC	Proportion of RAB subject to notional deductible interest calculation	77.55%	from S8b
1a(ii): Information Supporting the ROI	38		**ROI - comparable to a post tax WACC**		7.47%	to row 4

SCHEDULE 1b: REPORT ON PQ FFLAS RETURN ON INVESTMENT

1b(i): Return on Investment

Section	Row	Context	Category1	Category2	CY-2| %	CY-1| %	Current Year CY| %	
1b(i): Return on Investment	4		**ROI - comparable to a post tax WACC**	Reflecting all revenue earned	6.26%	5.21%	7.41%	from row 37
1b(i): Return on Investment	5		ROI - comparable to a post tax WACC	Excluding revenue earned from wash-ups	5.57%	5.21%	7.41%	from row 8, 33-36
1b(i): Return on Investment	6		ROI - comparable to a post tax WACC	**Mid-point estimate of post tax WACC**	7.38%	7.77%	6.91%	
1b(i): Return on Investment	7		**ROI - comparable to a vanilla WACC**	Reflecting all revenue earned	6.66%	5.65%	7.76%	from row 32
1b(i): Return on Investment	8		ROI - comparable to a vanilla WACC	Excluding revenue earned from wash-ups	5.97%	5.65%	7.76%	from T29 mid yr IRR calcs
1b(i): Return on Investment	9		ROI - comparable to a vanilla WACC	**WACC rate used to set regulatory price path**	4.72%	4.72%	7.68%	
1b(i): Return on Investment	10		ROI - comparable to a vanilla WACC	**Mid-point estimate of vanilla WACC**	7.90%	8.32%	7.36%	
1b(i): Return on Investment	11		ROI - comparable to a vanilla WACC	**Standard error**	1.31%	1.31%	1.31%	

1b(ii): Information Supporting the ROI

Section	Row	Context	Category1	Category2	$000	
1b(ii): Information Supporting the ROI	16		**Opening RAB value**		5,913,119	
1b(ii): Information Supporting the ROI	17		**Operating revenue**		856,605	from S2
1b(ii): Information Supporting the ROI	18		Mid-year net cash outflows	Expenditure	210,002	from S2
1b(ii): Information Supporting the ROI	19	plus	Mid-year net cash outflows	Assets commissioned	342,732	from S4b
1b(ii): Information Supporting the ROI	20	less	Mid-year net cash outflows	Asset disposals	703	from S4b
1b(ii): Information Supporting the ROI	21	plus	Mid-year net cash outflows	Tax payments	-	from S2
1b(ii): Information Supporting the ROI	22	less	Mid-year net cash outflows	Other regulated income	6,555	from S2
1b(ii): Information Supporting the ROI	23		**Mid-year net cash outflows**		545,476	
1b(ii): Information Supporting the ROI	24		**Term credit spread differential allowance**		2,112	from S2
1b(ii): Information Supporting the ROI	25		Closing RAB value	Total closing RAB value	6,003,748	from S4b
1b(ii): Information Supporting the ROI	26	less	Closing RAB value	Adjustment resulting from asset allocation	29,946	from S4b
1b(ii): Information Supporting the ROI	27		**Closing RAB value**		5,973,802	

1b(ii): Information Supporting the ROI

Section	Row	Context	Category1	Category2	%	
1b(ii): Information Supporting the ROI	32		**ROI - before benefit of crown financing**		6.22%	
1b(ii): Information Supporting the ROI	33		**ROI - comparable to a vanilla WACC**		7.76%	from row R29 mid yr IRR calcs.
1b(ii): Information Supporting the ROI	34		ROI - comparable to a post tax WACC	Leverage (%)	29.00%	
1b(ii): Information Supporting the ROI	35		**ROI - comparable to a post tax WACC**	Cost of debt assumption (%)	5.54%	from S1b
1b(ii): Information Supporting the ROI	36		ROI - comparable to a post tax WACC	Corporate tax rate (%)	28.00%	from S3
1b(ii): Information Supporting the ROI	37		ROI - comparable to a post tax WACC	Proportion of RAB subject to notional deductible interest calculation	77.42%	from S8b
1b(ii): Information Supporting the ROI	38		**ROI - comparable to a post tax WACC**		7.41%	to row 4

SCHEDULE 1c: REPORT ON ID-ONLY FFLAS RETURN ON INVESTMENT

1c(i): Return on Investment

Section	Row	Context	Category1	Category2	CY-2 | %	CY-1 | %	Current Year CY | %	
1c(i): Return on Investment	4		**ROI - comparable to a post tax WACC**	Reflecting all revenue earned	20.51%	16.63%	15.98%	from row 36
1c(i): Return on Investment	5		ROI - comparable to a post tax WACC	**Mid-point estimate of post tax WACC**	7.38%	7.77%	6.91%	
1c(i): Return on Investment	6		**ROI - comparable to a vanilla WACC**	Reflecting all revenue earned	21.03%	17.19%	16.43%	from row 32
1c(i): Return on Investment	7		ROI - comparable to a vanilla WACC	**Mid-point estimate of vanilla WACC**	7.90%	8.32%	7.36%	
1c(i): Return on Investment	8		ROI - comparable to a vanilla WACC	**Standard error**	1.31%	1.31%	1.31%	

1c(ii): Information Supporting the ROI

Section	Row	Context	Category1	Category2	$000	
1c(ii): Information Supporting the ROI	16		**Opening RAB value**		36,206	
1c(ii): Information Supporting the ROI	17		**Operating revenue**		9,635	from S2
1c(ii): Information Supporting the ROI	18		Mid-year net cash outflows	Expenditure	983	from S2
1c(ii): Information Supporting the ROI	19	plus	Mid-year net cash outflows	Assets commissioned	4,005	from S4d
1c(ii): Information Supporting the ROI	20	less	Mid-year net cash outflows	Asset disposals	2	from S4d
1c(ii): Information Supporting the ROI	21	plus	Mid-year net cash outflows	Tax payments	1,343	from S2
1c(ii): Information Supporting the ROI	22	less	Mid-year net cash outflows	Other regulated income	64	from S2
1c(ii): Information Supporting the ROI	23		**Mid-year net cash outflows**		6,266	
1c(ii): Information Supporting the ROI	24		**Term credit spread differential allowance**		14	from S2
1c(ii): Information Supporting the ROI	25		Closing RAB value	Total closing RAB value	43,497	from S4d
1c(ii): Information Supporting the ROI	26	less	Closing RAB value	Adjustment resulting from asset allocation	4,816	from S4d
1c(ii): Information Supporting the ROI	27		**Closing RAB value**		38,681	

1c(ii): Information Supporting the ROI

Section	Row	Context	Category1	Category2	%	
1c(ii): Information Supporting the ROI	32		**ROI - comparable to a vanilla WACC**		16.43%	from row P27 mid yr IRR calcs.
1c(ii): Information Supporting the ROI	33		ROI - comparable to a post tax WACC	Leverage (%)	29.00%	
1c(ii): Information Supporting the ROI	34		ROI - comparable to a post tax WACC	Cost of debt assumption (%)	5.54%	
1c(ii): Information Supporting the ROI	35		ROI - comparable to a post tax WACC	Corporate tax rate (%)	28.00%	from S3
1c(ii): Information Supporting the ROI	36		**ROI - comparable to a post tax WACC**		15.98%	to row 4

SCHEDULE 2: REPORT ON REGULATORY PROFIT

2(i): Regulatory Profit

Section	Row	Context	Category1	Category2	PQ FFLAS| ($000)	ID-only FFLAS| ($000)	ID FFLAS| ($000)	
2(i): Regulatory Profit	4		Regulatory income	Operating revenue	856,605	9,635	866,240	
2(i): Regulatory Profit	5	plus	Regulatory income	Gains / (losses) on asset disposals	(363)	(2)	(364)	from S7
2(i): Regulatory Profit	6	plus	Regulatory income	Other regulated income (other than gains / (losses) on asset disposals)	6,918	65	6,983	
2(i): Regulatory Profit	7	plus	Regulatory income	Wash-up accruals			-	
2(i): Regulatory Profit	8		**Total regulatory income**		863,160	9,699	872,859	
2(i): Regulatory Profit	9	less	**Expenditure**	Operating expenditure	191,089	863	191,953	from S5
2(i): Regulatory Profit	10	less	Expenditure	Pass-through costs	18,913	120	19,032	from row 26 & to S1a
2(i): Regulatory Profit	11		**Operating surplus / (deficit)**		653,158	8,716	661,874	
2(i): Regulatory Profit	12	less	Operating surplus / (deficit)	Total Depreciation	463,949	2,649	466,598	from S4b
2(i): Regulatory Profit	13	plus	Operating surplus / (deficit)	Total Revaluations	182,602	1,121	183,723	from S4b
2(i): Regulatory Profit	14		**Regulatory profit / (loss) before tax**		371,812	7,187	378,999	to S3
2(i): Regulatory Profit	15	less	Regulatory profit / (loss) before tax	Term credit spread differential allowance	2,112	14	2,126	from S8a
2(i): Regulatory Profit	16	less	Regulatory profit / (loss) before tax	Regulatory tax allowance	-	1,343	1,343	from S3 & to S1a
2(i): Regulatory Profit	17		**Regulatory profit/(loss)**		369,699	5,831	375,530	

2(ii): Pass-through Costs

Section	Row	Context	Category1	Category2	PQ FFLAS| ($000)	ID-only FFLAS| ($000)	ID FFLAS| ($000)	
2(ii): Pass through Costs	22		Pass through costs	Rates	10,271	85		
2(ii): Pass through Costs	23		Pass through costs	Telecommunications Act levies - sections 11,12	6,481	26		
2(ii): Pass through Costs	24		Pass through costs	Telecommunications Act levies - sections 87,88	2,077	8		
2(ii): Pass through Costs	25		Pass through costs	Dispute resolution scheme levies	84	0		
2(ii): Pass through Costs	26		**Pass-through costs**		18,913	120	19,032	to row 10

2(iii): Merger and Acquisition Expenditure

Section	Row	Context	Category1	Category2	($000)
2(iii): Merger and Acquisition Expenditure	31		Merger and acquisition expenditure		-

Provide commentary on the benefits of merger and acquisition expenditure to the regulated provider, including required disclosures in accordance with Schedule 14 (Mandatory Explanatory Notes)

2(iv): Other Disclosures

Section	Row	Context	Category1	Category2	($000)
2(iv): Other Disclosures	38		Asset stranding allowance		5,958

2(v): Wash-up accruals

Section	Row	Context	Category1	Category2	($000)	
2(v): Wash - up accruals	43		**Total FFLAS revenue**		863,160	
2(v): Wash - up accruals	44	less	Actual allowable revenue for disclosure year		939,489	
2(v): Wash - up accruals	45		**Difference including wash-up accruals in respect of current disclosure year**		76,329	
2(v): Wash - up accruals	46		Wash-up accruals in respect of current disclosure year		76,329	
2(v): Wash - up accruals	47		Wash-up accruals in operating revenue relating to previous disclosure years		167,068	F46 from previous disclosure year
2(v): Wash - up accruals	48		**Total wash-up accruals**		243,398	

SCHEDULE 3: REPORT ON REGULATORY TAX ALLOWANCE

3(i): Regulatory Tax Allowance

Section	Row	Context	Category1	Category2	PQ FFLAS| ($000)	ID-only FFLAS| ($000)	ID FFLAS| ($000)	
3(i): Regulatory Tax Allowance	4		**Regulatory profit / (loss) before tax**		371,812	7,187	378,999	from S2
3(i): Regulatory Tax Allowance	5	plus	Depreciation temporary differences	Depreciation & Disposals	464,651	2,651	467,302	
3(i): Regulatory Tax Allowance	6	less	Depreciation temporary differences	Tax depreciation & Tax disposals	434,343	3,585	437,927	
3(i): Regulatory Tax Allowance	7		**Depreciation temporary differences**	**Total**	30,309	(934)	29,375	
3(i): Regulatory Tax Allowance	8	plus*	Permanent differences:	Income not included in regulatory profit / (loss) before tax but taxable	-	-	-	
3(i): Regulatory Tax Allowance	9	plus*	Permanent differences:	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	2,294	9	2,303	
3(i): Regulatory Tax Allowance	10	less*	Permanent differences:	Income included in regulatory profit / (loss) before tax but not taxable	-	-	-	
3(i): Regulatory Tax Allowance	11	less*	Permanent differences:	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	330	1	332	
3(i): Regulatory Tax Allowance	12		**Permanent differences:**	**Total**	1,963	8	1,971	
3(i): Regulatory Tax Allowance	13	less	Permanent differences:	Total revaluations	182,602	1,121	183,723	from S8b
3(i): Regulatory Tax Allowance	14	plus*	Temporary differences:	Income not included in regulatory profit / (loss) before tax but taxable	27,305	321	27,626	
3(i): Regulatory Tax Allowance	15	plus*	Temporary differences:	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	9,412	38	9,450	
3(i): Regulatory Tax Allowance	16	less*	Temporary differences:	Income included in regulatory profit / (loss) before tax but not taxable	7,145	29	7,174	
3(i): Regulatory Tax Allowance	17	less*	Temporary differences:	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	23,281	93	23,375	
3(i): Regulatory Tax Allowance	18		**Temporary differences:**	**Total**	6,291	236	6,527	
3(i): Regulatory Tax Allowance	19	less	Temporary differences:	Notional deductible interest	73,546	582	74,128	
3(i): Regulatory Tax Allowance	20		**Regulatory taxable income**	Regulatory taxable income	154,226	4,795	159,021	
3(i): Regulatory Tax Allowance	21	less	Regulatory taxable income	Utilised tax losses	154,226	-	154,226	
3(i): Regulatory Tax Allowance	22		Regulatory taxable income	Regulatory net taxable income	-	4,795	4,795	
3(i): Regulatory Tax Allowance	23		**Regulatory tax allowance**	**Regulatory tax allowance**	-	1,343	1,343	to S2

* *Workings to be provided in Schedule 14*

3(i): Regulatory Tax Allowance

Section	Row	Context	Category1	Category2	%
3(i): Regulatory Tax Allowance	30		Regulatory taxable income	Corporate tax rate (%)	28%

3(ii): Disclosure of Permanent and Temporary Differences

In Schedule 11, Box 5 and Box 6, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

3(iii): Reconciliation of Tax Losses

Section	Row	Context	Category1	Category2	PQ FFLAS| ($000)	ID-only FFLAS| ($000)	ID FFLAS| ($000)	
3(iii): Reconciliation of Tax Losses	40		**Opening tax losses**		686,275	-	686,275	from last year's ID disclosure
3(iii): Reconciliation of Tax Losses	41	plus	Opening tax losses	Current period tax losses	-	-	-	
3(iii): Reconciliation of Tax Losses	42	less	Opening tax losses	Utilised tax losses	154,226	-	154,226	
3(iii): Reconciliation of Tax Losses	43		**Closing tax losses**		532,049	-	532,049	

3(iv): Regulatory Tax Asset Base Roll-Forward

Section	Row	Context	Category1	Category2	PQ FFLAS| ($000)	ID-only FFLAS| ($000)	ID FFLAS| ($000)	
3(iv): Regulatory Tax Asset Base Roll-Forward	48		**Opening sum of regulatory tax asset values**		3,325,471	24,923	3,350,394	from last year's ID disclosure
3(iv): Regulatory Tax Asset Base Roll-Forward	49	less	Opening sum of regulatory tax asset values	Tax depreciation	433,693	3,581	437,274	
3(iv): Regulatory Tax Asset Base Roll-Forward	50	plus	Opening sum of regulatory tax asset values	Regulatory tax asset value of assets commissioned	370,394	4,408	374,802	
3(iv): Regulatory Tax Asset Base Roll-Forward	51	less	Opening sum of regulatory tax asset values	Regulatory tax asset value of asset disposals	649	4	653	
3(iv): Regulatory Tax Asset Base Roll-Forward	52	plus	Opening sum of regulatory tax asset values	Adjustment resulting from asset allocation	20,588	3,508	24,096	
3(iv): Regulatory Tax Asset Base Roll-Forward	53	plus	Opening sum of regulatory tax asset values	Other adjustments to the RAB tax value	-	-	-	
3(iv): Regulatory Tax Asset Base Roll-Forward	54		**Closing sum of regulatory tax asset values**		3,282,110	29,254	3,311,364	

SCHEDULE 4a: REPORT ON ASSET ALLOCATIONS

4a(i): Regulated Service Asset Values

Section	Row	Category1	Category2	Category3	PQ FFLAS| ($000)	ID-only FFLAS| ($000)	ID FFLAS| ($000)
4a(i): Regulated Service Asset Values	4	NETWORK ASSETS - LAYER 1	Ducts and Manholes	Directly attributable	2,124,571	7,769	2,132,340
4a(i): Regulated Service Asset Values	5	NETWORK ASSETS - LAYER 1	Ducts and Manholes	Not directly attributable	260,621	12,753	273,374
4a(i): Regulated Service Asset Values	6	NETWORK ASSETS - LAYER 1	Ducts and Manholes	Total attributable to regulated service	2,385,192	20,522	2,405,714
4a(i): Regulated Service Asset Values	7	NETWORK ASSETS - LAYER 1	Fibre Optic Cable	Directly attributable	597,647	581	598,229
4a(i): Regulated Service Asset Values	8	NETWORK ASSETS - LAYER 1	Fibre Optic Cable	Not directly attributable	64,980	7,449	72,429
4a(i): Regulated Service Asset Values	9	NETWORK ASSETS - LAYER 1	Fibre Optic Cable	Total attributable to regulated service	662,627	8,030	670,657
4a(i): Regulated Service Asset Values	10	NETWORK ASSETS - LAYER 1	Fibre Service Leads	Directly attributable	1,107,164	4,205	1,111,369
4a(i): Regulated Service Asset Values	11	NETWORK ASSETS - LAYER 1	Fibre Service Leads	Not directly attributable	-	-	-
4a(i): Regulated Service Asset Values	12	NETWORK ASSETS - LAYER 1	Fibre Service Leads	Total attributable to regulated service	1,107,164	4,205	1,111,369
4a(i): Regulated Service Asset Values	13	NETWORK ASSETS - LAYER 1	Local Access Copper Cable (Poles)	Directly attributable	52,604	0	52,604
4a(i): Regulated Service Asset Values	14	NETWORK ASSETS - LAYER 1	Local Access Copper Cable (Poles)	Not directly attributable	76,980	2,793	79,773
4a(i): Regulated Service Asset Values	15	NETWORK ASSETS - LAYER 1	Local Access Copper Cable (Poles)	Total attributable to regulated service	129,584	2,793	132,377
4a(i): Regulated Service Asset Values	16	NETWORK ASSETS - LAYER 1	FTTN/FTTP Cabinets	Directly attributable	199,314	779	200,093
4a(i): Regulated Service Asset Values	17	NETWORK ASSETS - LAYER 1	FTTN/FTTP Cabinets	Not directly attributable	338	113	452
4a(i): Regulated Service Asset Values	18	NETWORK ASSETS - LAYER 1	FTTN/FTTP Cabinets	Total attributable to regulated service	199,652	892	200,544
4a(i): Regulated Service Asset Values	19	NETWORK ASSETS - LAYER 1	Network Equipment	Directly attributable	-	-	-
4a(i): Regulated Service Asset Values	20	NETWORK ASSETS - LAYER 1	Network Equipment	Not directly attributable	-	-	-
4a(i): Regulated Service Asset Values	21	NETWORK ASSETS - LAYER 1	Network Equipment	Total attributable to regulated service	-	-	-
4a(i): Regulated Service Asset Values	22	NETWORK ASSETS - LAYER 1	Information Technology	Directly attributable	-	-	-
4a(i): Regulated Service Asset Values	23	NETWORK ASSETS - LAYER 1	Information Technology	Not directly attributable	-	-	-
4a(i): Regulated Service Asset Values	24	NETWORK ASSETS - LAYER 1	Information Technology	Total attributable to regulated service	-	-	-
4a(i): Regulated Service Asset Values	25	NETWORK ASSETS - LAYER 1	Other Layer 1 assets	Directly attributable	-	-	-
4a(i): Regulated Service Asset Values	26	NETWORK ASSETS - LAYER 1	Other Layer 1 assets	Not directly attributable	(4)	-	(4)
4a(i): Regulated Service Asset Values	27	NETWORK ASSETS - LAYER 1	Other Layer 1 assets	Total attributable to regulated service	(4)	-	(4)
4a(i): Regulated Service Asset Values	28	NETWORK ASSETS - LAYER 2	FTTN/FTTP Cabinets	Directly attributable	-	-	-
4a(i): Regulated Service Asset Values	29	NETWORK ASSETS - LAYER 2	FTTN/FTTP Cabinets	Not directly attributable	-	-	-
4a(i): Regulated Service Asset Values	30	NETWORK ASSETS - LAYER 2	FTTN/FTTP Cabinets	Total attributable to regulated service	-	-	-
4a(i): Regulated Service Asset Values	31	NETWORK ASSETS - LAYER 2	Network Equipment	Directly attributable	164,560	809	165,369
4a(i): Regulated Service Asset Values	32	NETWORK ASSETS - LAYER 2	Network Equipment	Not directly attributable	95,871	389	96,260
4a(i): Regulated Service Asset Values	33	NETWORK ASSETS - LAYER 2	Network Equipment	Total attributable to regulated service	260,431	1,198	261,629
4a(i): Regulated Service Asset Values	34	NETWORK ASSETS - LAYER 2	Information Technology	Directly attributable	2,653	11	2,664
4a(i): Regulated Service Asset Values	35	NETWORK ASSETS - LAYER 2	Information Technology	Not directly attributable	381	2	383
4a(i): Regulated Service Asset Values	36	NETWORK ASSETS - LAYER 2	Information Technology	Total attributable to regulated service	3,035	12	3,047
4a(i): Regulated Service Asset Values	37	NETWORK ASSETS - LAYER 2	Other Layer 2 assets	Directly attributable	-	-	-
4a(i): Regulated Service Asset Values	38	NETWORK ASSETS - LAYER 2	Other Layer 2 assets	Not directly attributable	-	-	-
4a(i): Regulated Service Asset Values	39	NETWORK ASSETS - LAYER 2	Other Layer 2 assets	Total attributable to regulated service	-	-	-
4a(i): Regulated Service Asset Values	40	OTHER NETWORK ASSETS	Network land and buildings	Directly attributable	1,137	5	1,142
4a(i): Regulated Service Asset Values	41	OTHER NETWORK ASSETS	Network land and buildings	Not directly attributable	120,507	2,516	123,024
4a(i): Regulated Service Asset Values	42	OTHER NETWORK ASSETS	Network land and buildings	Total attributable to regulated service	121,644	2,522	124,166
4a(i): Regulated Service Asset Values	43	OTHER NETWORK ASSETS	Other network assets	Directly attributable	44,448	-	44,448
4a(i): Regulated Service Asset Values	44	OTHER NETWORK ASSETS	Other network assets	Not directly attributable	9,857	2,140	11,997
4a(i): Regulated Service Asset Values	45	OTHER NETWORK ASSETS	Other network assets	Total attributable to regulated service	54,306	2,140	56,445
4a(i): Regulated Service Asset Values	46	NON-NETWORK ASSETS	Non-network land and buildings	Directly attributable	-	-	-
4a(i): Regulated Service Asset Values	47	NON-NETWORK ASSETS	Non-network land and buildings	Not directly attributable	-	-	-
4a(i): Regulated Service Asset Values	48	NON-NETWORK ASSETS	Non-network land and buildings	Total attributable to regulated service	-	-	-
4a(i): Regulated Service Asset Values	49	NON-NETWORK ASSETS	Non-network IT hardware/software	Directly attributable	48,284	196	48,480
4a(i): Regulated Service Asset Values	50	NON-NETWORK ASSETS	Non-network IT hardware/software	Not directly attributable	81,402	330	81,732
4a(i): Regulated Service Asset Values	51	NON-NETWORK ASSETS	Non-network IT hardware/software	Total attributable to regulated service	129,686	526	130,212
4a(i): Regulated Service Asset Values	52	NON-NETWORK ASSETS	Other non-network assets	Directly attributable	83,038	258	83,296
4a(i): Regulated Service Asset Values	53	NON-NETWORK ASSETS	Other non-network assets	Not directly attributable	5,713	399	6,112
4a(i): Regulated Service Asset Values	54	NON-NETWORK ASSETS	Other non-network assets	Total attributable to regulated service	88,751	657	89,408
4a(i): Regulated Service Asset Values	55	NON-NETWORK ASSETS	**Regulated service asset value directly attributable**		4,425,422	14,612	4,440,035
4a(i): Regulated Service Asset Values	56	NON-NETWORK ASSETS	**Regulated service asset value not directly attributable**		716,647	28,884	745,531
4a(i): Regulated Service Asset Values	57	NON-NETWORK ASSETS	**Financial loss asset**		861,678		861,678
4a(i): Regulated Service Asset Values	58	NON-NETWORK ASSETS	**Total closing RAB value**		6,003,748	43,497	6,047,244

to S4b, S4c, S4d

SCHEDULE 4a: REPORT ON ASSET ALLOCATIONS

4a(ii): Changes in Asset Allocations*†

Section	Row	Category1	Category2	Asset category	Original allocator or line items	New allocator or line items	Rationale for change	Original allocation| CY-1| ($000)	Original allocation| Current Year (CY)| ($000)	New allocation| CY-1| ($000)	New allocation| Current Year (CY)| ($000)	Difference| CY-1| ($000)	Difference| Current Year (CY)| ($000)
4a(ii): Changes in Asset Allocations*†	63	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	64	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	65	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	66	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	67	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	68	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	69	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	70	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	71	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	72	Change in asset value allocation										-	-
4a(ii): Changes in Asset Allocations*†	73	Change in asset value allocation										-	-

** 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

SCHEDULE 4b: REPORT ON VALUE OF THE ID FFLAS REGULATORY ASSET BASE ROLLED FORWARD

4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)

Section	Row	Context	Category1	Category2	RAB| CY-4| ($000)	RAB| CY-3| ($000)	RAB| CY-2| ($000)	RAB| CY-1| ($000)	RAB| CY| ($000)	
4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)	4		**Total opening RAB value**		-	5,473,880	5,762,774	5,964,826	5,949,325	to S1
4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)	5	less	**Depreciation**		-	513,225	494,774	510,559	466,598	from row 17
4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)	6	plus	**Revaluations**		-	391,669	267,532	132,410	183,723	from row 18
4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)	7	plus	**Assets commissioned**		-	359,268	360,667	309,647	346,737	from row 22 & to S4b
4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)	8	less	**Asset disposals**		-	78	719	357	705	from row 23 & to S4b
4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)	9	less	**Adjustment to loss asset due to deregulation**		-	-	-	-	-	from row 27 & to S4b
4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)	10	plus	**Adjustment resulting from asset allocation**		-	29,396	56,241	39,705	34,761	from row 28 & to S4b
4b(i): ID FFLAS Regulatory Asset Base Value (Rolled Forward)	11		**Total closing RAB value**		-	5,740,910	5,951,721	5,935,671	6,047,244	to S4b and S8a

4b(ii): Unallocated Regulatory Asset Base

Section	Row	Context	Category1	Category2	Unallocated RAB *| ($000)	RAB| ($000)	
4b(ii): Unallocated Regulatory Asset Base	16		**Total opening RAB value**		6,333,558	5,949,325	from row 4
4b(ii): Unallocated Regulatory Asset Base	17	less	**Depreciation**		495,304	466,598	from row 71
4b(ii): Unallocated Regulatory Asset Base	18	plus	**Revaluations**		195,608	183,723	from row 50
4b(ii): Unallocated Regulatory Asset Base	19	plus	Asset commissioned	Assets commissioned (other than below)	365,920	346,737	
4b(ii): Unallocated Regulatory Asset Base	20	plus	Asset commissioned	Assets acquired from a regulated supplier		-	
4b(ii): Unallocated Regulatory Asset Base	21	plus	Asset commissioned	Assets acquired from a related party		-	
4b(ii): Unallocated Regulatory Asset Base	22	plus	**Assets commissioned**		365,920	346,737	to row 7
4b(ii): Unallocated Regulatory Asset Base	23	less	Asset disposals	Asset disposals (other than below)	881	705	
4b(ii): Unallocated Regulatory Asset Base	24	less	Asset disposals	Asset disposals to a regulated supplier		-	
4b(ii): Unallocated Regulatory Asset Base	25	less	Asset disposals	Asset disposals to a related party		-	
4b(ii): Unallocated Regulatory Asset Base	26	less	**Asset disposals**		881	705	
4b(ii): Unallocated Regulatory Asset Base	27	less	**Adjustment to loss asset due to deregulation**			-	from cell J112
4b(ii): Unallocated Regulatory Asset Base	28	plus	**Adjustment resulting from asset allocation**		2,521	34,761	
4b(ii): Unallocated Regulatory Asset Base	29		**Total closing RAB value**		6,401,422	6,047,244	from S4a

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

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

Section	Row	Context	Category1	Category2	Index	
4b(iii): Calculation of Revaluation Rate and Revaluation of Assets	36		CPI_T		1327	from SE9A Index column - CPI table (Statistics NZ Website)
4b(iii): Calculation of Revaluation Rate and Revaluation of Assets	37		CPI_{T-1}		1287	from SE9A Index column - CPI table (Statistics NZ Website)

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

Section	Row	Context	Category1	Category2	%
4b(iii): Calculation of Revaluation Rate and Revaluation of Assets	42		Revaluation rate (%)		3.11%

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

Section	Row	Context	Category1	Category2	Unallocated RAB *| ($000)	RAB| ($000)	
4b(iii): Calculation of Revaluation Rate and Revaluation of Assets	47		Total opening RAB value		6,333,558	5,949,325	from row 16 (and row4)
4b(iii): Calculation of Revaluation Rate and Revaluation of Assets	48		Opening value of fully depreciated and disposed assets		39,875	38,044	
4b(iii): Calculation of Revaluation Rate and Revaluation of Assets	49	less	Total opening RAB value subject to revaluation		6,293,684	5,911,281	
4b(iii): Calculation of Revaluation Rate and Revaluation of Assets	50		**Revaluations**		195,608	183,723	to row 18 & S3

SCHEDULE 4b: REPORT ON VALUE OF THE ID FFLAS REGULATORY ASSET BASE ROLLED FORWARD

4b(iv): Roll Forward of Works Under Construction

Section	Row	Context	Category1	Category2	Unallocated works under construction | ($000)	Allocated works under construction | ($000)
4b(iv): Roll Forward of Works Under Construction	56		Works under construction - preceding disclosure year		151,622	128,879
4b(iv): Roll Forward of Works Under Construction	57	plus	Works under construction - current disclosure year	Capital expenditure	323,615	311,316
4b(iv): Roll Forward of Works Under Construction	58	less	Works under construction - current disclosure year	Assets commissioned	365,920	346,737
4b(iv): Roll Forward of Works Under Construction	59	plus	Works under construction - current disclosure year	Adjustment resulting from asset allocation		(4,713)
4b(iv): Roll Forward of Works Under Construction	60		**Works under construction - current disclosure year**		109,316	88,745

4b(iv): Roll Forward of Works Under Construction

Section	Row	Context	Category1	Category2	%
4b(iv): Roll Forward of Works Under Construction	64		Highest rate of capitalised finance applied		5.65%

4b(v): Regulatory Depreciation

Section	Row	Context	Category1	Category2	Unallocated RAB * | ($000)	RAB | ($000)
4b(v): Regulatory Depreciation	69		Depreciation - GAAP		256,758	241,194
4b(v): Regulatory Depreciation	70		Depreciation - alternative method		238,547	225,403
4b(v): Regulatory Depreciation	71		**Total depreciation**		495,304	466,598

4b(vi): Disclosure of Changes to Depreciation Methods

Section	Row	Context	Category1 | Asset category or assets with changes to depreciation*	Category2 | Reason for change of method (text entry)	Depreciation charge for the period (RAB) | ($000)	Closing RAB value under 'alternative method' depreciation | ($000)	Closing RAB value under 'GAAP' depreciation | ($000)
4b(vi): Disclosure of Changes to Depreciation Methods	76		Layer 1 Assets	As per PQP2 Final Decision	64,378	3,338,735	3,181,796
4b(vi): Disclosure of Changes to Depreciation Methods	77						
4b(vi): Disclosure of Changes to Depreciation Methods	78						
4b(vi): Disclosure of Changes to Depreciation Methods	79						
4b(vi): Disclosure of Changes to Depreciation Methods	80						
4b(vi): Disclosure of Changes to Depreciation Methods	81						
4b(vi): Disclosure of Changes to Depreciation Methods	82						
4b(vi): Disclosure of Changes to Depreciation Methods	83						

**Include additional rows as needed*

4b(vii): Disclosure by Asset Category

Section	Row	Context	Category1	Category2	Opening RAB value	Less depreciation	Plus revaluations	Plus assets commissioned	Less asset disposals	Plus asset allocation adjustment	Plus asset category transfers	Total	Weighted average remaining asset life	Weighted average expected total life
4b(vii): Disclosure by Asset Category	90		Layer 1 assets	Ducts and Manholes	2,244,522	1,646	69,760	79,874	112	13,317	-	2,405,714	34	45
4b(vii): Disclosure by Asset Category	91		Layer 1 assets	Fibre Optic Cable	668,319	50,844	20,771	32,454	351	308	-	670,657	9	20
4b(vii): Disclosure by Asset Category	92		Layer 1 assets	Fibre Service Leads	1,102,778	69,001	34,274	43,318	-	(0)	-	1,111,369	13	20
4b(vii): Disclosure by Asset Category	93		Layer 1 assets	Poles	124,777	5,469	3,877	5,084	-	4,108	-	132,377	9	17
4b(vii): Disclosure by Asset Category	94		Layer 1 assets	FTTN / FTTP Cabinets	207,014	15,118	6,430	2,113	-	106	-	200,544	3	10
4b(vii): Disclosure by Asset Category	95		Layer 1 assets	Network Equipment	-	-	-	-	-	-	-	-	-	-
4b(vii): Disclosure by Asset Category	96		Layer 1 assets	Information Technology	-	-	-	-	-	-	-	-	-	-
4b(vii): Disclosure by Asset Category	97		Layer 1 assets	Other Layer 1 assets	13	16	0	-	-	(1)	-	(4)	-	-
4b(vii): Disclosure by Asset Category	98		**Layer 1 assets**	**Total Layer 1 closing RAB value**	4,347,423	142,095	135,113	162,843	464	17,838	-	4,520,658		
4b(vii): Disclosure by Asset Category	99		Layer 2 assets	FTTN / FTTP Cabinets	-	-	-	-	-	-	-	-	-	-
4b(vii): Disclosure by Asset Category	100		Layer 2 assets	Network Equipment	249,728	60,774	7,436	63,109	-	2,129	-	261,629	2	7
4b(vii): Disclosure by Asset Category	101		Layer 2 assets	Information Technology	1,608	1,292	22	2,696	-	13	-	3,047	0	4
4b(vii): Disclosure by Asset Category	102		Layer 2 assets	Other Layer 2 assets	-	-	-	-	-	-	-	-	-	-
4b(vii): Disclosure by Asset Category	103		**Layer 2 assets**	**Total Layer 2 closing RAB value**	251,336	62,066	7,458	65,805	-	2,142	-	264,676		
4b(vii): Disclosure by Asset Category	104		Other Network Assets	Network land and buildings	108,890	9,162	3,380	9,017	69	11,004	1,106	124,166	8	17
4b(vii): Disclosure by Asset Category	105		Other Network Assets	Other network assets	58,769	9,133	1,826	5,750	77	(689)	-	56,445	4	12
4b(vii): Disclosure by Asset Category	106		**Other Network Assets**	**Total network assets**	4,766,418	222,456	147,777	243,415	610	30,294	1,106	4,965,945		
4b(vii): Disclosure by Asset Category	107		Non-Network Assets	Non-network land and buildings	-	-	-	-	-	-	-	-	-	-
4b(vii): Disclosure by Asset Category	108		Non-Network Assets	Non-network IT hardware/software	109,156	50,998	2,837	66,301	12	2,802	125	130,212	1	4
4b(vii): Disclosure by Asset Category	109		Non-Network Assets	Other non-network assets	81,875	32,119	2,280	37,021	82	433	-	89,408	2	4
4b(vii): Disclosure by Asset Category	110		Non-Network Assets	**Total non-network assets**	191,031	83,117	5,118	103,322	94	3,235	125	219,621		
4b(vii): Disclosure by Asset Category	111		**Total - ID fibre assets**		4,957,449	305,572	152,895	346,737	705	33,530	1,232	5,185,566		
4b(vii): Disclosure by Asset Category	112		**Financial loss asset**		991,876	161,025	30,828		-			861,678	10	14
4b(vii): Disclosure by Asset Category	113		**Total RAB**		5,949,325	466,598	183,723	346,737	705	33,530	1,232	6,047,244		

SCHEDULE 4c: REPORT ON VLUE OF THE PQ FFLAS REGULATORY ASSET BASE ROLLED FORWARD

4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)

Section	Row	Context	Category1	Category2	RAB| CY-4| ($000)	RAB| CY-3| ($000)	RAB| CY-2| ($000)	RAB| CY-1| ($000)	RAB| CY| ($000)	
4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)	4		**Total opening RAB value**			5,447,224	5,727,549	5,933,023	5,913,119	to S1
4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)	5	less	**Depreciation**			510,937	491,838	507,798	463,949	from row 17
4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)	6	plus	**Revaluations**			389,800	265,899	131,705	182,602	from row 18
4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)	7	plus	**Assets commissioned**			356,052	357,755	306,236	342,732	from row 22 & to S4b
4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)	8	less	**Asset disposals**			76	714	354	703	from row 23 & to S4b
4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)	9	less	**Adjustment to loss asset due to deregulation**			-	-	-	-	from row 27 & to S4b
4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)	10	plus	**Adjustment resulting from asset allocation**			28,247	53,620	40,195	29,945.62	from row 28 & to S4b
4c(i): PQ FFLAS Regulatory Asset Base Value (Rolled Forward)	11		**Total closing RAB value**		-	5,710,310	5,912,271	5,903,006	6,003,748	to S4b and S8a

4c(ii): Unallocated Regulatory Asset Base

Section	Row	Context	Category1	Category2	Unallocated RAB *| ($000)	RAB| ($000)	
4c(ii): Unallocated Regulatory Asset Base	16		**Total opening RAB value**		6,333,558	5,913,119	from row 4
4c(ii): Unallocated Regulatory Asset Base	17	less	**Depreciation**		495,304	463,949	from row 72
4c(ii): Unallocated Regulatory Asset Base	18	plus	**Revaluations**		195,608	182,602	from row 50
4c(ii): Unallocated Regulatory Asset Base	19	plus	Asset commissioned	Assets commissioned (other than below)	365,920	342,732	
4c(ii): Unallocated Regulatory Asset Base	20	plus	Asset commissioned	Assets acquired from a regulated supplier			
4c(ii): Unallocated Regulatory Asset Base	21	plus	Asset commissioned	Assets acquired from a related party			
4c(ii): Unallocated Regulatory Asset Base	22	plus	**Assets commissioned**		365,920	342,732	to row 7
4c(ii): Unallocated Regulatory Asset Base	23	less	Asset disposals	Asset disposals (other than below)	881	703	
4c(ii): Unallocated Regulatory Asset Base	24	less	Asset disposals	Asset disposals to a regulated supplier			
4c(ii): Unallocated Regulatory Asset Base	25	less	Asset disposals	Asset disposals to a related party			
4c(ii): Unallocated Regulatory Asset Base	26	less	**Asset disposals**		881	703	to row 8
4c(ii): Unallocated Regulatory Asset Base	27	less	**Adjustment to loss asset due to deregulation**			-	from cell J112
4c(ii): Unallocated Regulatory Asset Base	28	plus	**Adjustment resulting from asset allocation**			29,946	to row 10
4c(ii): Unallocated Regulatory Asset Base	29		**Total closing RAB value**		6,398,901	6,003,748	from S4a

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

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

Section	Row	Context	Category1	Category2	Index	
4c(iii): Calculation of Revaluation Rate and Revaluation of Assets	36		CPI_T		1327	from SE9A Index column - CPI table (Statistics NZ Website)
4c(iii): Calculation of Revaluation Rate and Revaluation of Assets	37		CPI_{T-1}		1287	from SE9A Index column - CPI table (Statistics NZ Website)

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

Section	Row	Context	Category1	Category2	%
4c(iii): Calculation of Revaluation Rate and Revaluation of Assets	42		Revaluation rate (%)		3.11%

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

Section	Row	Context	Category1	Category2	Unallocated RAB *| ($000)	RAB| ($000)	
4c(iii): Calculation of Revaluation Rate and Revaluation of Assets	47		Total opening RAB value		6,333,558	5,913,119	from row 16 (and row4)
4c(iii): Calculation of Revaluation Rate and Revaluation of Assets	48		Opening value of fully depreciated and disposed assets		39,875	37,893	
4c(iii): Calculation of Revaluation Rate and Revaluation of Assets	49	less	Total opening RAB value subject to revaluation		6,293,684	5,875,227	
4c(iii): Calculation of Revaluation Rate and Revaluation of Assets	50		**Revaluations**		195,608	182,602	to row 18 & S3

SCHEDULE 4c: REPORT ON VLUE OF THE PQ FFLAS REGULATORY ASSET BASE ROLLED FORWARD

4c(iv): Roll Forward of Works Under Construction

Section	Row	Context	Category1	Category2	Unallocated works under construction| ($000)	Allocated works under construction| ($000)	
4c(iv): Roll Forward of Works Under Construction	56		**Works under construction - preceding disclosure year**		151,622	127,401	
4c(iv): Roll Forward of Works Under Construction	57	plus	Works under construction - current disclosure year	Capital expenditure	323,615	308,216	from S6
4c(iv): Roll Forward of Works Under Construction	58	less	Works under construction - current disclosure year	Assets commissioned	365,920	342,732	from row 22
4c(iv): Roll Forward of Works Under Construction	59	plus	Works under construction - current disclosure year	Adjustment resulting from asset allocation		(5,284)	
4c(iv): Roll Forward of Works Under Construction	60		**Works under construction - current disclosure year**		109,316	87,601	

4c(iv): Roll Forward of Works Under Construction

Section	Row	Context	Category1	Category2	%
4c(iv): Roll Forward of Works Under Construction	65		Highest rate of capitalised finance applied		6%

4c(v): Regulatory Depreciation

Section	Row	Context	Category1	Category2	Unallocated RAB *| ($000)	RAB| ($000)
4c(v): Regulatory Depreciation	70		Depreciation - GAAP		256,758	239,812
4c(v): Regulatory Depreciation	71		Depreciation - alternative method		238,547	224,137
4c(v): Regulatory Depreciation	72		**Total depreciation**		495,304	463,949

4c(vi): Disclosure of Changes to Depreciation Methods

Section	Row	Context	Category1| Asset category or assets with changes to depreciation*	Category2| Reason for change of method (text entry)	Depreciation charge for the period (RAB)| ($000)	Closing RAB value under 'alternative method' depreciation| ($000)	Closing RAB value under 'GAAP' depreciation| ($000)
4c(vi): Disclosure of Changes to Depreciation Methods	76		Layer 1 Assets	As per PQP2 Final Decision	63,111	3,306,571	3,150,625
4c(vi): Disclosure of Changes to Depreciation Methods	77						
4c(vi): Disclosure of Changes to Depreciation Methods	78						
4c(vi): Disclosure of Changes to Depreciation Methods	79						
4c(vi): Disclosure of Changes to Depreciation Methods	80						
4c(vi): Disclosure of Changes to Depreciation Methods	81						
4c(vi): Disclosure of Changes to Depreciation Methods	82						
4c(vi): Disclosure of Changes to Depreciation Methods	83						

**Include additional rows as needed*

4c(vii): Disclosure by Asset Category

Section	Row	Context	Category1	Category2	Opening RAB value	Less depreciation	Plus revaluations	Plus assets commissioned	Less asset disposals	Plus asset allocation adjustment	Plus asset category transfers	Total	Weighted average remaining asset life	Weighted average expected total life
4c(vii): Disclosure by Asset Category	90		Layer 1 assets	Ducts and Manholes	2,230,164	1,568	69,314	77,585	112	9,810	-	2,385,192	35	46
4c(vii): Disclosure by Asset Category	91		Layer 1 assets	Fibre Optic Cable	659,622	49,806	20,501	32,188	351	474	-	662,627	9	20
4c(vii): Disclosure by Asset Category	92		Layer 1 assets	Fibre Service Leads	1,098,880	68,747	34,153	42,804	-	74	-	1,107,164	13	20
4c(vii): Disclosure by Asset Category	93		Layer 1 assets	Local Access Copper Cable (Poles)	122,967	5,450	3,821	5,097	-	3,149	-	129,584	10	19
4c(vii): Disclosure by Asset Category	94		Layer 1 assets	FTTN / FTTP Cabinets	206,029	14,971	6,399	2,114	-	81	-	199,652	3	10
4c(vii): Disclosure by Asset Category	95		Layer 1 assets	Network Equipment	-	-	-	-	-	-	-	-	-	-
4c(vii): Disclosure by Asset Category	96		Layer 1 assets	Information Technology	-	-	-	-	-	-	-	-	-	-
4c(vii): Disclosure by Asset Category	97		Layer 1 assets	Other Layer 1 assets	13	16	0	-	-	(1)	-	(4)	-	-
4c(vii): Disclosure by Asset Category	98		**Layer 1 assets**	**Total Layer 1 closing RAB value**	4,317,676	140,558	134,188	159,788	464	13,587	-	4,484,216		
4c(vii): Disclosure by Asset Category	99		Layer 2 assets	FTTN / FTTP Cabinets	-	-	-	-	-	-	-	-	-	-
4c(vii): Disclosure by Asset Category	100		Layer 2 assets	Network Equipment	248,683	60,574	7,404	62,783	-	2,135	-	260,431	2	7
4c(vii): Disclosure by Asset Category	101		Layer 2 assets	Information Technology	1,601	1,287	22	2,686	-	13	-	3,035	0	4
4c(vii): Disclosure by Asset Category	102		Layer 2 assets	Other Layer 2 assets	-	-	-	-	-	-	-	-	-	-
4c(vii): Disclosure by Asset Category	103		**Layer 2 assets**	**Total Layer 2 closing RAB value**	250,284	61,860	7,426	65,468	-	2,148	-	263,466		
4c(vii): Disclosure by Asset Category	104		Other Network Assets	Network land and buildings	106,565	8,934	3,309	8,946	69	10,751	1,076	121,644	8	17
4c(vii): Disclosure by Asset Category	105		Other Network Assets	Other network assets	56,671	8,850	1,761	5,667	76	(869)	-	54,306	4	12
4c(vii): Disclosure by Asset Category	106		**Other Network Assets**	**Total network assets**	4,731,196	220,202	146,685	239,869	609	25,618	1,076	4,923,632		
4c(vii): Disclosure by Asset Category	107		Non-Network Assets	Non-network land and buildings	-	-	-	-	-	-	-	-	-	-
4c(vii): Disclosure by Asset Category	108		Non-Network Assets	Non-network IT hardware/software	108,720	50,794	2,826	66,036	12	2,785	125	129,686	1	4
4c(vii): Disclosure by Asset Category	109		Non-Network Assets	Other non-network assets	81,328	31,928	2,264	36,827	82	342	-	88,751	2	4
4c(vii): Disclosure by Asset Category	110		**Non-Network Assets**	**Total non-network assets**	190,048	82,721	5,090	102,863	94	3,127	125	218,437		
4c(vii): Disclosure by Asset Category	111		**Total - PQ fibre assets**		4,921,243	302,923	151,775	342,732	703	28,745	1,201	5,142,069		
4c(vii): Disclosure by Asset Category	112		**Financial loss asset**		991,876	161,025	30,828		-			861,678	10	14
4c(vii): Disclosure by Asset Category	113		**Total RAB**		5,913,119	463,949	182,602	342,732	703	28,745	1,201	6,003,748		

SCHEDULE 4d: REPORT ON VALUE OF THE ID-ONLY FFLAS REGULATORY ASSET BASE ROLLED FORWARD

4d(i): ID-ONLY FFLAS Regulatory Asset Base Value (Rolled Forward)

Section	Row	Context	Category1	Category2	RAB| CY-4| ($000)	RAB| CY-3| ($000)	RAB| CY-2| ($000)	RAB| CY-1| ($000)	RAB| CY| ($000)	
4d(i): ID-ONLY FFLAS Regulatory Asset Base Value (Rolled Forward)	4		**Total opening RAB value**			26,656	35,225	31,803	36,206	to S4b, S8a, S8b
4d(i): ID-ONLY FFLAS Regulatory Asset Base Value (Rolled Forward)	5	less	**Depreciation**			2,288	2,936	2,761	2,649	from row 18
4d(i): ID-ONLY FFLAS Regulatory Asset Base Value (Rolled Forward)	6	plus	**Revaluations**			1,869	1,633	706	1,121	from row 19
4d(i): ID-ONLY FFLAS Regulatory Asset Base Value (Rolled Forward)	7	plus	**Assets commissioned**			3,216	2,912	3,411	4,005	from row 23 & to S4b
4d(i): ID-ONLY FFLAS Regulatory Asset Base Value (Rolled Forward)	8	less	**Asset disposals**			2	5	3	2	from row 24 & to S4b
4d(i): ID-ONLY FFLAS Regulatory Asset Base Value (Rolled Forward)	9	plus	**Adjustment resulting from asset allocation**			1,149	2,621	(490)	4,816	from row 27 & to S4b
4d(i): ID-ONLY FFLAS Regulatory Asset Base Value (Rolled Forward)	10		**Total closing RAB value**		-	30,600	39,450	32,665	43,497	to S4b & S8a

4d(ii): Unallocated Regulatory Asset Base

Section	Row	Context	Category1	Category2	Unallocated RAB *| ($000)	RAB| ($000)	
4d(ii): Unallocated Regulatory Asset Base	16		**Total opening RAB value**		439,594	36,206	from row 3
4d(ii): Unallocated Regulatory Asset Base	17	less	**Depreciation**		94,576	2,649	from row 72
4d(ii): Unallocated Regulatory Asset Base	18	plus	**Revaluations**		13,016	1,121	from row 50
4d(ii): Unallocated Regulatory Asset Base	19	plus	Asset commissioned	Assets commissioned (other than below)	121,429	4,005	
4d(ii): Unallocated Regulatory Asset Base	20	plus	Asset commissioned	Assets acquired from a regulated supplier			
4d(ii): Unallocated Regulatory Asset Base	21	plus	Asset commissioned	Assets acquired from a related party			
4d(ii): Unallocated Regulatory Asset Base	22	plus	**Assets commissioned**		121,429	4,005	to row 6
4d(ii): Unallocated Regulatory Asset Base	23	less	Asset disposals	Asset disposals (other than below)	111	2	
4d(ii): Unallocated Regulatory Asset Base	24	less	Asset disposals	Asset disposals to a regulated supplier			
4d(ii): Unallocated Regulatory Asset Base	25	less	Asset disposals	Asset disposals to a related party			
4d(ii): Unallocated Regulatory Asset Base	26	less	**Asset disposals**		111	2	to row 7
4d(ii): Unallocated Regulatory Asset Base	27	plus	**Adjustment resulting from asset allocation**			4,816	to row 9
4d(ii): Unallocated Regulatory Asset Base	28		**Total closing RAB value**		479,352	43,497	from S4a

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

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

Section	Row	Context	Category1	Category2	Index	
4d(iii): Calculation of Revaluation Rate and Revaluation of Assets	36		CPI_T		1327	from SE9A Index column - CPI table (Statistics NZ Website)
4d(iii): Calculation of Revaluation Rate and Revaluation of Assets	37		CPI_{T-1}		1287	from SE9A Index column - CPI table (Statistics NZ Website)

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

Section	Row	Context	Category1	Category2	%
4d(iii): Calculation of Revaluation Rate and Revaluation of Assets	42		Revaluation rate (%)		3.11%

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

Section	Row	Context	Category1	Category2	Unallocated RAB *| ($000)	RAB| ($000)	
4d(iii): Calculation of Revaluation Rate and Revaluation of Assets	47		Total opening RAB value		439,594	36,206	from row 16 (and row3)
4d(iii): Calculation of Revaluation Rate and Revaluation of Assets	48	less	Opening value of fully depreciated and disposed assets		20,796	152	
4d(iii): Calculation of Revaluation Rate and Revaluation of Assets	49		Total opening RAB value subject to revaluation		418,798	36,054	
4d(iii): Calculation of Revaluation Rate and Revaluation of Assets	50		**Revaluations**		13,016	1,121	to row 18 & S3

SCHEDULE 4d: REPORT ON VALUE OF THE ID-ONLY FFLAS REGULATORY ASSET BASE ROLLED FORWARD

4d(iv): Roll Forward of Works Under Construction

Section	Row	Context	Category1	Category2	Unallocated works under construction| ($000)	Allocated works under construction| ($000)	
4d(iv): Roll Forward of Works Under Construction	56		Works under construction - preceding disclosure year		138,547	1,478	
4d(iv): Roll Forward of Works Under Construction	57	plus	Works under construction - current disclosure year	Capital expenditure	68,173	3,100	from S6
4d(iv): Roll Forward of Works Under Construction	58	less	Works under construction - current disclosure year	Assets commissioned	121,429	4,005	from row 22
4d(iv): Roll Forward of Works Under Construction	59	plus	Works under construction - current disclosure year	Adjustment resulting from asset allocation		571	
4d(iv): Roll Forward of Works Under Construction	60		**Works under construction - current disclosure year**		85,292	1,144	

4d(iv): Roll Forward of Works Under Construction

Section	Row	Context	Category1	Category2	%
4d(iv): Roll Forward of Works Under Construction	65		Highest rate of capitalised finance applied		6%

4d(v): Regulatory Depreciation

Section	Row	Context	Category1	Category2	Unallocated RAB *| ($000)	RAB| ($000)
4d(v): Regulatory Depreciation	70		Depreciation - GAAP		88,174	1,382
4d(v): Regulatory Depreciation	71		Depreciation - alternative method		6,401	1,267
4d(v): Regulatory Depreciation	72		**Total depreciation**		94,576	2,649

4d(vi): Disclosure of Changes to Depreciation Methods

Section	Row	Context	Category1| Asset category or assets with changes to depreciation*	Category2| Reason for change of method (text entry)	Depreciation charge for the period (RAB)| ($000)	Closing RAB value under 'alternative method' depreciation| ($000)	Closing RAB value under 'GAAP' depreciation| ($000)
4d(vi): Disclosure of Changes to Depreciation Methods	77		Layer 1 Assets	As per PQP2 Final Decision	1,267	32,164	31,171
4d(vi): Disclosure of Changes to Depreciation Methods	78						
4d(vi): Disclosure of Changes to Depreciation Methods	79						
4d(vi): Disclosure of Changes to Depreciation Methods	80						
4d(vi): Disclosure of Changes to Depreciation Methods	81						
4d(vi): Disclosure of Changes to Depreciation Methods	82						
4d(vi): Disclosure of Changes to Depreciation Methods	83						
4d(vi): Disclosure of Changes to Depreciation Methods	84						

**Include additional rows as needed*

4d(vii): Disclosure by Asset Category

Section	Row	Context	Category1	Category2	Opening RAB value	Less depreciation	Plus revaluations	Plus assets commissioned	Less asset disposals	Plus asset allocation adjustment	Plus asset category transfers	Total	Weighted average remaining asset life	Weighted average expected total life
4d(vii): Disclosure by Asset Category	90		Layer 1 assets	Ducts and Manholes	14,358	78	446	2,289	-	3,507	-	20,522	4	11
4d(vii): Disclosure by Asset Category	91		Layer 1 assets	Fibre Optic Cable	8,697	1,038	270	266	-	(166)	-	8,030	6	20
4d(vii): Disclosure by Asset Category	92		Layer 1 assets	Fibre Service Leads	3,898	255	121	514	-	(74)	-	4,205	13	20
4d(vii): Disclosure by Asset Category	93		Layer 1 assets	Local Access Copper Cable (Poles)	1,810	19	56	(13)	-	958	-	2,793	0	4
4d(vii): Disclosure by Asset Category	94		Layer 1 assets	FTTN / FTTP Cabinets	985	147	31	(0)	-	25	-	892	0	7
4d(vii): Disclosure by Asset Category	95		Layer 1 assets	Network Equipment	-	-	-	-	-	-	-	-	-	-
4d(vii): Disclosure by Asset Category	96		Layer 1 assets	Information Technology	-	-	-	-	-	-	-	-	-	-
4d(vii): Disclosure by Asset Category	97		Layer 1 assets	Other Layer 1 assets	-	-	-	-	-	-	-	-	-	-
4d(vii): Disclosure by Asset Category	98		**Layer 1 assets**	**Total Layer 1 closing RAB value**	29,748	1,536	924	3,055	-	4,250	-	36,441		
4d(vii): Disclosure by Asset Category	99		Layer 2 assets	FTTN / FTTP Cabinets	-	-	-	-	-	-	-	-	-	-
4d(vii): Disclosure by Asset Category	100		Layer 2 assets	Network Equipment	1,046	200	33	326	-	(6)	-	1,198	1	6
4d(vii): Disclosure by Asset Category	101		Layer 2 assets	Information Technology	6	5	0	11	-	0	-	12	0	4
4d(vii): Disclosure by Asset Category	102		Layer 2 assets	Other Layer 2 assets	-	-	-	-	-	-	-	-	-	-
4d(vii): Disclosure by Asset Category	103		**Layer 2 assets**	**Total Layer 2 closing RAB value**	1,052	206	33	337	-	(6)	-	1,210		
4d(vii): Disclosure by Asset Category	104		Other Network Assets	Network land and buildings	2,325	228	71	71	-	252	30	2,522	7	17
4d(vii): Disclosure by Asset Category	105		Other Network Assets	Other network assets	2,098	284	65	83	1	180	-	2,140	4	12
4d(vii): Disclosure by Asset Category	106		**Other Network Assets**	**Total network assets**	35,222	2,254	1,093	3,546	1	4,677	30	42,313		
4d(vii): Disclosure by Asset Category	107		Non-Network Assets	Non-network land and buildings	-	-	-	-	-	-	-	-	-	-
4d(vii): Disclosure by Asset Category	108		Non-Network Assets	Non-network IT hardware/software	437	204	11	265	0	17	1	526	1	4
4d(vii): Disclosure by Asset Category	109		Non-Network Assets	Other non-network assets	547	191	16	194	0	91	-	657	2	4
4d(vii): Disclosure by Asset Category	110		**Non-Network Assets**	**Total non-network assets**	983	395	28	459	0	108	1	1,183		
4d(vii): Disclosure by Asset Category	111		**Total - ID fibre assets**		36,206	2,649	1,121	4,005	2	4,785	31	43,497		
4d(vii): Disclosure by Asset Category	112		**Total RAB**		36,206	2,649	1,121	4,005	2	4,785	31	43,497		

SCHEDULE 5: REPORT ON OPERATING EXPENDITURE

5(i): Operating Expenditure

Section	Row	Category1	Category2	PQ FFLAS| ($000)	ID-only FFLAS| ($000)	ID FFLAS| ($000)	
5(i): Operating Expenditure	4	Customer opex	Customer operations	(1,937)	(8)	(1,945)	
5(i): Operating Expenditure	5	Customer opex	Product, sales & marketing	27,916	119	28,035	
5(i): Operating Expenditure	6	**Total customer opex**		25,979	112	26,091	
5(i): Operating Expenditure	7	Network opex	Maintenance	31,488	126	31,614	
5(i): Operating Expenditure	8	Network opex	Network operations	25,826	106	25,932	
5(i): Operating Expenditure	9	Network opex	Network operating costs	12,184	49	12,233	
5(i): Operating Expenditure	10	**Total network opex**		69,498	281	69,779	
5(i): Operating Expenditure	11	Support opex	Asset management	12,458	51	12,509	
5(i): Operating Expenditure	12	Support opex	Corporate opex	50,434	255	50,689	
5(i): Operating Expenditure	13	Support opex	Technology	32,720	165	32,885	
5(i): Operating Expenditure	14	**Total support opex**		95,612	470	96,083	
5(i): Operating Expenditure	15	**Operating expenditure**		191,089	863	191,953	to S2

5(ii): Subcomponents of Operating Expenditure

Section	Row	Category1	Category2	PQ FFLAS| ($000)	ID-only FFLAS| ($000)	ID FFLAS| ($000)
5(ii): Subcomponents of Operating Expenditure	20	Subcomponents of operating expenditure	Research and development	-		-
5(ii): Subcomponents of Operating Expenditure	21	Subcomponents of operating expenditure	Insurance expenditure	4,903	31	4,934

SCHEDULE 5a: REPORT ON COST ALLOCATIONS

5a(i): Operating Cost Allocations

Section	Row	Category1	Category2	PQ FFLAS|($000)	ID-only FFLAS|($000)	Non-FFLAS|($000)	Total Shared Costs|($000)
5a(i): Operating Cost Allocations	4	Customer operations	Directly attributable	5	0		
5a(i): Operating Cost Allocations	5	Customer operations	Not directly attributable	(1,942)	(8)	(118)	(2,067)
5a(i): Operating Cost Allocations	6	Customer operations	Total attributable to regulated service	(1,937)	(8)		
5a(i): Operating Cost Allocations	7	Product, sales & marketing	Directly attributable	9,729	39		
5a(i): Operating Cost Allocations	8	Product, sales & marketing	Not directly attributable	18,187	80	2,103	20,370
5a(i): Operating Cost Allocations	9	Product, sales & marketing	Total attributable to regulated service	27,916	119		
5a(i): Operating Cost Allocations	10	Maintenance	Directly attributable	859	3		
5a(i): Operating Cost Allocations	11	Maintenance	Not directly attributable	30,629	123	10,709	41,462
5a(i): Operating Cost Allocations	12	Maintenance	Total attributable to regulated service	31,488	126		
5a(i): Operating Cost Allocations	13	Network operations	Directly attributable	933	4		
5a(i): Operating Cost Allocations	14	Network operations	Not directly attributable	24,892	102	14,559	39,553
5a(i): Operating Cost Allocations	15	Network operations	Total attributable to regulated service	25,826	106		
5a(i): Operating Cost Allocations	16	Network operating costs	Directly attributable	2	0		
5a(i): Operating Cost Allocations	17	Network operating costs	Not directly attributable	12,182	49	14,841	27,072
5a(i): Operating Cost Allocations	18	Network operating costs	Total attributable to regulated service	12,184	49		
5a(i): Operating Cost Allocations	19	Asset management	Directly attributable	3,909	16		
5a(i): Operating Cost Allocations	20	Asset management	Not directly attributable	8,550	35	1,083	9,668
5a(i): Operating Cost Allocations	21	Asset management	Total attributable to regulated service	12,458	51		
5a(i): Operating Cost Allocations	22	Corporate opex	Directly attributable	813	3		
5a(i): Operating Cost Allocations	23	Corporate opex	Not directly attributable	49,621	252	7,495	57,368
5a(i): Operating Cost Allocations	24	Corporate opex	Total attributable to regulated service	50,434	255		
5a(i): Operating Cost Allocations	25	Technology	Directly attributable	7,009	28		
5a(i): Operating Cost Allocations	26	Technology	Not directly attributable	25,711	137	3,791	29,639
5a(i): Operating Cost Allocations	27	Technology	Total attributable to regulated service	32,720	165		
5a(i): Operating Cost Allocations	28	**Operating costs directly attributable**		23,259	93		
5a(i): Operating Cost Allocations	29	**Operating costs not directly attributable**		167,830	770	54,464	223,064
5a(i): Operating Cost Allocations	30	**Operating expenditure**		191,089	863		

5a(ii): Other Cost Allocations

Section	Row	Category1	Category2	PQ FFLAS|($000)	ID-only FFLAS|($000)
5a(ii): Other Cost Allocations	35	**Pass through costs**	Directly attributable	4,844	19
5a(ii): Other Cost Allocations	36	Pass through costs	Not directly attributable	14,069	100
5a(ii): Other Cost Allocations	37	Pass through costs	**Total attributable to regulated service**	18,913	120

5a(iii): Changes in Cost Allocations*

Section	Row	Category1	Category2	Cost category	Original allocator or line items	New allocater or line item	Rationale for change	Original allocation|CY-1|($000)	Original allocation|Current Year (CY)|($000)	New allocation|CY-1|($000)	New allocation|Current Year (CY)|($000)	Difference|CY-1|($000)	Difference|Current Year (CY)|($000)
5a(iii): Changes in Cost Allocations*	42	Support	Not directly attributable	Corporate common costs	Totex	Personnel costs	RP2 final decision	49,402	51,046	54,381	53,804	(4,980)	(2,759)
5a(iii): Changes in Cost Allocations*	43	Support	Not directly attributable	Corporate variable costs	Net Book Value or Totex	Revenue	RP2 final decision	5,422	5,793	5,677	6,125	(255)	(332)
5a(iii): Changes in Cost Allocations*	44	Network and Support	Not directly attributable	CTO variable costs	Various	Revenue or Totex	RP2 final decision	22,177	23,383	23,477	25,653	(1,299)	(2,270)
	45	Network and Support	Not directly attributable	CTO variable costs	Various	Personnel costs	RP2 final decision	1,444	1,048	1,318	-	125	1,048
5a(iii): Changes in Cost Allocations*	**46**			**Grand Total**				**78,445**	**81,270**	**84,854**	**85,583**	**(6,409)**	**(4,313)**

** 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

SCHEDULE 6: REPORT ON CAPITAL EXPENDITURE

6(i): Expenditure on Assets

Section	Row	Context	Category1	Category2	($000) PQ FFLAS	($000) ID-only FFLAS	($000) ID FFLAS	
6(i): Expenditure on Assets	4		Extending the network	Augmentation	28,810	1,011	29,821	
6(i): Expenditure on Assets	5		Extending the network	New property development	45,646	290	45,936	
6(i): Expenditure on Assets	6		Extending the network	UFB communal	(89)	-	- 89	
6(i): Expenditure on Assets	7		**Extending the network**		74,367	1,301	75,668	
6(i): Expenditure on Assets	8		Installations	Complex installations	5,383	233	5,615	
6(i): Expenditure on Assets	9		Installations	Standard installations	97,266	817	98,083	
6(i): Expenditure on Assets	10		**Installations**		102,649	1,050	103,699	
6(i): Expenditure on Assets	11		Network capacity	Access	24,281	189	24,470	
6(i): Expenditure on Assets	12		Network capacity	Aggregation	13,040	34	13,074	
6(i): Expenditure on Assets	13		Network capacity	Transport	16,968	68	17,036	
6(i): Expenditure on Assets	14		**Network capacity**		54,288	291	54,580	
6(i): Expenditure on Assets	15		Network sustain & enhance	Field Sustain	13,876	122	13,998	
6(i): Expenditure on Assets	16		Network sustain & enhance	Relocations	10,917	328	11,245	
6(i): Expenditure on Assets	17		Network sustain & enhance	Resilience	2,133	4	2,137	
6(i): Expenditure on Assets	18		Network sustain & enhance	Site Sustain	21,431	325	21,756	
6(i): Expenditure on Assets	19		**Network sustain & enhance**		48,356	779	49,135	
6(i): Expenditure on Assets	20		Network & customer IT		41,745	128	41,873	
6(i): Expenditure on Assets	21		**Expenditure on network assets**		321,405	3,550	324,954	
6(i): Expenditure on Assets	22		Non-network IT & support	Business IT	17,519	70	17,590	
6(i): Expenditure on Assets	23		Non-network IT & support	Corporate capex	187	(9)	178	
6(i): Expenditure on Assets	24		**Expenditure on non-network assets**		17,706	62	17,767	
6(i): Expenditure on Assets	25		**Expenditure on assets**		339,110	3,611	342,722	
6(i): Expenditure on Assets	26	plus	Capital expenditure	Cost of financing	1,178	32	1,210	
6(i): Expenditure on Assets	27	less	Capital expenditure	Value of capital contributions	32,073	542	32,616	
6(i): Expenditure on Assets	28		**Capital expenditure**		308,216	3,100	311,316	to S4c & S4d

6(ii): Breakdown of capital contributions

Section	Row	Context	Category1	Category2	($000) PQ FFLAS	($000) ID-only FFLAS	($000) ID FFLAS
6(ii): Breakdown of capital contributions	33		Extending the network		19,186	126	19,313
6(ii): Breakdown of capital contributions	34		Installations		7,922	202	8,124
6(ii): Breakdown of capital contributions	35		Network capacity		-	-	-
6(ii): Breakdown of capital contributions	36		Network sustain & enhance		4,965	214	5,179
6(ii): Breakdown of capital contributions	37		Network & customer IT		-	-	-
6(ii): Breakdown of capital contributions	38		**Total**		32,073	542	32,616

6(iii): Subcomponents of Expenditure on Assets

Section	Row	Context	Category1	Category2	($000) PQ FFLAS	($000) ID-only FFLAS	($000) ID FFLAS
6(iii): Subcomponents of Expenditure on Assets	43		Subcomponents of expenditure on assets	Research and development	-	-	-

SCHEDULE 7: REPORT ON COMPARISON OF FORECAST TO ACTUAL EXPENDITURE

7(i): Revenue

Section	Row	Category1	Category2	PQ-FFLAS| Target ($000) [1]	PQ-FFLAS| Actual ($000)	PQ-FFLAS| Variance (%)	ID-Only| Target ($000) [1]	ID-Only| Actual ($000)	ID-Only| Variance (%)	
7(i): Revenue	4	Operating revenue	Connection revenue	5,224	5,102	2%	-	132		From quarterly reports on pricing
7(i): Revenue	5	Operating revenue	Monthly access revenue	842,791	831,928	1%	10,094	8,660	14%	From quarterly reports on pricing
7(i): Revenue	6	Operating revenue	Other product specific revenue	19,372	19,575	-1%	174	843	-384%	From quarterly reports on pricing
7(i): Revenue	7	**Total operating revenue**		867,387	856,605	1%	10,268	9,635	6%	To S2
7(i): Revenue	8	Non-financial	Connection volumes - opening	n/a	1,092,011		n/a	4,371		From Previous year's closing connection volumes
7(i): Revenue	9	Non-financial	Connection volumes - closing	n/a	1,122,627		n/a	4,543		From Report on Forecast Network Demand

7(ii): Expenditure on Assets

Section	Row	Category1	Category2	PQ-FFLAS| Forecast ($000) [2]	PQ-FFLAS| Actual ($000)	PQ-FFLAS| Variance (%)	ID-Only| Forecast ($000) [2]	ID-Only| Actual ($000)	ID-Only| Variance (%)	
7(ii): Expenditure on Assets	14	Extending the network	Augmentation	19,937	28,810	-45%	-	1,011		from S6
7(ii): Expenditure on Assets	15	Extending the network	New property developments	8,835	45,646	-417%	1,123	290	74%	from S6
7(ii): Expenditure on Assets	16	Extending the network	UFB communal	-	(89)		-	-		from S6
7(ii): Expenditure on Assets	17	**Extending the network**		28,772	74,367	-158%	1,123	1,301	-16%	
7(ii): Expenditure on Assets	18	Installations	Complex installations	3,328	5,383	-62%	0	233	-197464%	from S6
7(ii): Expenditure on Assets	19	Installations	Standard installations	91,662	97,266	-6%	267	817	-207%	from S6
7(ii): Expenditure on Assets	20	**Installations**		94,990	102,649	-8%	267	1,050	-294%	
7(ii): Expenditure on Assets	21	Network capacity	Access	22,522	24,281	-8%	38	189	-392%	from S6
7(ii): Expenditure on Assets	22	Network capacity	Aggregation	23,509	13,040	45%	229	34	85%	from S6
7(ii): Expenditure on Assets	23	Network capacity	Transport	28,575	16,968	41%	163	68	58%	from S6
7(ii): Expenditure on Assets	24	**Network capacity**		74,606	54,288	27%	430	291	32%	
7(ii): Expenditure on Assets	25	Network sustain & enhance	Field Sustain	31,031	13,876	55%	206	122	41%	from S6
7(ii): Expenditure on Assets	26	Network sustain & enhance	Relocations	5,055	10,917	-116%	1	328	-35679%	from S6
7(ii): Expenditure on Assets	27	Network sustain & enhance	Resilience	15,052	2,133	86%	-	4		from S6
7(ii): Expenditure on Assets	28	Network sustain & enhance	Site Sustain	29,596	21,431	28%	527	325	38%	from S6
7(ii): Expenditure on Assets	29	**Network sustain & enhance**		80,734	48,356	40%	734	779	-6%	
7(ii): Expenditure on Assets	30	IT & support	Network & Customer IT	27,520	41,745	-52%	157	128	18%	from S6
7(ii): Expenditure on Assets	31	**Expenditure on network assets**		306,621	321,405	-5%	2,710	3,550	-31%	
7(ii): Expenditure on Assets	32	IT & support	Business IT	19,346	17,519	9%	110	70	36%	
7(ii): Expenditure on Assets	33	IT & support	Corporate capex	1,580	187	88%	9	(9)	198%	from S6
7(ii): Expenditure on Assets	34	**Expenditure on non-network assets**		20,925	17,706	15%	119	62	48%	from S6
7(ii): Expenditure on Assets	35	**Expenditure on assets**		327,546	339,110	-4%	2,829	3,611	-28%	from S6

SCHEDULE 7: REPORT ON COMPARISON OF FORECAST TO ACTUAL EXPENDITURE

7(iii): Operating Expenditure

Section	Row	Category1	Category2	PQ-FFLAS| Forecast ($000)[2]	PQ-FFLAS| Actual ($000)	PQ-FFLAS| Variance (%)	ID-Only| Forecast ($000)[2]	ID-Only| Actual ($000)	ID-Only| Variance (%)	
7(iii): Operating Expenditure	40	Customer opex	Customer operations	(7,670)	(1,937)	75%	(45)	(8)	82%	from S5
7(iii): Operating Expenditure	41	Customer opex	Product, sales & marketing	29,659	27,916	6%	169	119	29%	from S5
7(iii): Operating Expenditure	42	**Total customer opex**		21,989	25,979	-18%	124	112	10%	from S5
7(iii): Operating Expenditure	43	Network opex	Maintenance	34,599	31,488	9%	197	126	36%	from S5
7(iii): Operating Expenditure	44	Network opex	Network operations	20,940	25,826	-23%	122	106	13%	from S5
7(iii): Operating Expenditure	45	Network opex	Network operating costs	10,288	12,184	-18%	59	49	17%	from S5
7(iii): Operating Expenditure	46	**Total network opex**		65,828	69,498	-6%	378	281	25%	
7(iii): Operating Expenditure	47	Support opex	Asset management	24,941	12,458	50%	146	51	65%	from S5
7(iii): Operating Expenditure	48	Support opex	Corporate opex	50,775	50,434	1%	315	255	19%	from S5
7(iii): Operating Expenditure	49	Support opex	Technology	26,026	32,720	-26%	154	165	-7%	from S5
7(iii): Operating Expenditure	50	**Total support opex**		101,743	95,612	6%	615	470	24%	
7(iii): Operating Expenditure	51	**Operating expenditure**		189,559	191,089	-1%	1,117	863	23%	

7(iv): Subcomponents of operating expenditure

Section	Row	Category1	Category2	PQ-FFLAS| Forecast ($000)[2]	PQ-FFLAS| Actual ($000)	PQ-FFLAS| Variance (%)	ID-Only| Forecast ($000)[2]	ID-Only| Actual ($000)	ID-Only| Variance (%)	
7(iv): Subcomponents of operating expenditure	56	Subcomponents of operating expenditure	Research and development		-			-		from S5
7(iv): Subcomponents of operating expenditure	57	Subcomponents of operating expenditure	Insurance	6,436	4,903	24%	46	31	33%	from S5

1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.5.11 of this determination

2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.3.1 for the forecast period starting at the beginning of the disclosure year (Schedules 11 and 11a)

SCHEDULE 8a: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

8a(i): Qualifying Debt (may be Commission only)

Section	Row	Context	Category1	Category2	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statement (NZD)	Term Credit Spread Difference	Debt issue cost readjustment	
8a(i): Qualifying Debt (may be Commission only)	4	Issuing party	Citibank N.A. Ln		5/12/2019	5/12/2019	7.00	Fixed	96,895,134	112,945,646	145,343	(55,369)	
8a(i): Qualifying Debt (may be Commission only)	5	Issuing party	ANZ		2/12/2020	20/11/2020	7.00	Fixed	200,000,000	200,000,000	300,000	(114,286)	
8a(i): Qualifying Debt (may be Commission only)	6	Issuing party	ANZ		2/12/2020	20/11/2020	10.00	Fixed	200,000,000	174,960,142	750,000	(200,000)	
8a(i): Qualifying Debt (may be Commission only)	7	Issuing party	Citibank N.A. Ln		7/09/2022	31/08/2022	7.00	Fixed	819,500,000	1,016,985,476	1,229,250	(468,286)	
8a(i): Qualifying Debt (may be Commission only)	8	Issuing party	ANZ		18/09/2023	7/09/2023	7.00	Fixed	325,304,340	346,852,021	487,957	(185,888)	
8a(i): Qualifying Debt (may be Commission only)	9	Issuing party	ANZ		6/12/2018	6/12/2023	10.00	Fixed	500,000,000	519,189,902	1,875,000	(500,000)	
8a(i): Qualifying Debt (may be Commission only)	10	Issuing party	Citibank N.A. Ln		26/11/2025	20/11/2025	7.00	Fixed	821,692,687	809,176,819	1,232,539	(469,539)	
8a(i): Qualifying Debt (may be Commission only)	11	Issuing party	BNZ		6/06/2025	29/05/2025	6.00	Fixed	170,000,000	171,800,929	127,500	(56,667)	
8a(i): Qualifying Debt (may be Commission only)	12		Total						3,133,392,161	3,351,910,935	6,147,588	(2,050,034)	to row 20

**Include additional rows if needed*

8a(ii): Calculation of Term Credit Spread Differential Allowance

Section	Row	Context	Category1	Category2	($)	%	
8a(ii): Calculation of Term Credit Spread Differential Allowance	19		**Gross term credit spread differential**		4,098		from row 12
8a(ii): Calculation of Term Credit Spread Differential Allowance	20		Total book value of interest bearing debt		3,351,911		
8a(ii): Calculation of Term Credit Spread Differential Allowance	21		Leverage			29%	
8a(ii): Calculation of Term Credit Spread Differential Allowance	22		Average opening and closing RAB values		5,998,285		
8a(ii): Calculation of Term Credit Spread Differential Allowance	23		**Attribution Rate (%)**			51.9%	

8a(ii): Calculation of Term Credit Spread Differential Allowance

Section	Row	Context	Category1	Category2	($)	PQ FFLAS	ID-only FFLAS	
8a(ii): Calculation of Term Credit Spread Differential Allowance	28		**Term credit spread differential allowance**		2,126	2,112	14	to S2

SCHEDULE 8b: REPORT ON CROWN FINANCING AND NOTIONAL DEDUCTIBLE INTEREST

8b(i): Annual benefit of Crown financing

Section	Row	Category1	Category2	PQ FFLAS| Actual (NZD 000)	PQ FFLAS| Forecast (NZD 000)	PQ FFLAS| Actual (%)	PQ FFLAS| Forecast (%)	
8b(i): Annual benefit of Crown financing	4	Crown Financing outstanding	Opening balance	1,335,379	1,250,038			
8b(i): Annual benefit of Crown financing	5	Crown Financing outstanding	Net Drawdowns/Repayments	(170,682)	(85,341)			
8b(i): Annual benefit of Crown financing	6	Crown Financing outstanding	**Closing balance**	1,164,697	1,164,697			
8b(i): Annual benefit of Crown financing	7	Equity - Crown financing	Opening equity	768,475	725,805			
8b(i): Annual benefit of Crown financing	8	Equity - Crown financing	Debt converted to equity	(85,341)	(42,671)			
8b(i): Annual benefit of Crown financing	9	Equity - Crown financing	Shares redeemed					
8b(i): Annual benefit of Crown financing	10	Equity - Crown financing	**Closing equity**	683,134	683,134			
8b(i): Annual benefit of Crown financing	11	Equity - Crown financing	Cost of equity			8.10%	8.23%	
8b(i). Annual benefit of Crown financing	12	Senior debt - Crown financing	Opening debt	314,347	271,832			
8b(i): Annual benefit of Crown financing	13	Senior debt - Crown financing	Net Drawdowns/Repayments	(62,204)	(19,565)			
8b(i): Annual benefit of Crown financing	14	Senior debt - Crown financing	**Closing debt**	252,143	252,268			
8b(i): Annual benefit of Crown financing	15	Senior debt - Crown financing	Cost of debt			5.54%	6.33%	
8b(i): Annual benefit of Crown financing	16	Subordinated debt - Crown financing	Opening debt	252,557	252,401			
8b(i): Annual benefit of Crown financing	17	Subordinated debt - Crown financing	Net Drawdowns/Repayments	(23,137)	(23,106)			
8b(i): Annual benefit of Crown financing	18	Subordinated debt - Crown financing	**Closing debt**	229,420	229,296			
8b(i): Annual benefit of Crown financing	19	Subordinated debt - Crown financing	Cost of debt			5.54%	6.33%	
8b(i): Annual benefit of Crown financing	20	Subordinated debt - Crown financing	Subordinated debt premium			0.41%	0.41%	
8b(i): Annual benefit of Crown financing	21	Subordinated debt - Crown financing	Cost of subordinated debt			5.95%	6.74%	
8b(i): Annual benefit of Crown financing	22	Annual benefit of Crown financing	A x B	32,442	34,219			IM 2.4.10(1)
8b(i): Annual benefit of Crown financing	23	Annual benefit of Crown financing	C x D	57,328	56,286			
8b(i): Annual benefit of Crown financing	24	Annual benefit of Crown financing	**Total**	89,770	90,505			
8b(i): Annual benefit of Crown financing	25	Annual benefit of Crown financing	Annual benefit of Crown financing wash-up amount	(735)				
8b(i): Annual benefit of Crown financing	26	Crown financing (debt) proportions	Senior debt - Crown financing			55.45%	51.85%	OK OK
8b(i): Annual benefit of Crown financing	27	Crown financing (debt) proportions	Subordinated debt - Crown financing			44.55%	48.15%	

8b(ii): Notional deductible interest

Section	Row	Category1	Category2	PQ FFLAS| Actual (NZD 000)	PQ FFLAS| Forecast (NZD 000)	
8b(ii): Notional deductible interest	32	Notional deductible interest	Opening RAB value	5,913,119	36,206	IM 2.3.1(7)
8b(ii): Notional deductible interest	33	Notional deductible interest	Minus: Crown financing outstanding	1,335,379		
8b(ii): Notional deductible interest	34	Notional deductible interest	**Net RAB balance for interest calculation**	4,577,740	36,206	This section is linked with Sch. 1 and 4c and
8b(ii): Notional deductible interest	35	Notional deductible interest	Leverage	29%	29%	can be completed after once those are completed
8b(ii): Notional deductible interest	36	Notional deductible interest	Cost of debt	5.54%	5.54%	
8b(ii): Notional deductible interest	37	Notional deductible interest	**Interest**	73,546	582	

SCHEDULE 9: REPORT ON RELATED PARTY TRANSACTIONS

9(i): Summary - Related Party Transactions

Section	Row	Category1	Category2	($000)	
9(i): Summary - Related Party Transactions	4	Total regulatory income		-	From row 44 below
9(i): Summary - Related Party Transactions	5	Total regulatory income	Percentage of total regulatory income where associated FFLAS services were provided at a value less than if the transaction was an arm's-length transaction.		
9(i): Summary - Related Party Transactions	6	Market value of asset disposals			

9(i): Summary - Related Party Transactions

Section	Row	Category1| Level 1 category	Category2| Level 2 category	($000)	
					(Assign expenditure to level 1 or level 2 category in 9(ii) below)
9(i): Summary - Related Party Transactions	11	Customer opex	Customer operations	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	12	Customer opex	Product, sales & marketing	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	13	**Customer opex**	Customer opex	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	14	Network opex	Maintenance	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	15	Network opex	Network operations	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	16	Network opex	Network operating costs	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	17	**Network opex**	Network opex	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	18	Support opex	Asset management	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	19	Support opex	Corporate opex	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	20	Support opex	Technology	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	21	**Support opex**	Support opex	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	22	**Total operating expenditure**		-	
9(i): Summary - Related Party Transactions	23	Expenditure on assets	Extending the network	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	24	Expenditure on assets	Installations	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	25	Expenditure on assets	Network capacity	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	26	Expenditure on assets	Network sustain & enhance	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	27	Expenditure on assets	Network & customer IT	-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	28	**Expenditure on network assets**		-	
9(i): Summary - Related Party Transactions	29	**Expenditure on non-network assets**		-	From rows 51 to 66 below
9(i): Summary - Related Party Transactions	30	**Expenditure on assets**		-	
9(i): Summary - Related Party Transactions	31	Capital expenditure	Cost of financing		
9(i): Summary - Related Party Transactions	32	Capital expenditure	Value of capital contributions		
9(i): Summary - Related Party Transactions	33	**Capital expenditure**		-	
9(i): Summary - Related Party Transactions	34	**Total expenditure**		-	
9(i): Summary - Related Party Transactions	35	Other related party transactions			

SCHEDULE 9: REPORT ON RELATED PARTY TRANSACTIONS

9(ii): Total Regulatory Income from Related Party Transactions*

Section	Row	Category1| Name of related party	Category2| Nature of services	Total value of related party transactions ($000)
9(ii): Total Regulatory Income from Related Party Transactions*	42			
9(ii): Total Regulatory Income from Related Party Transactions*	43			
9(ii): Total Regulatory Income from Related Party Transactions*	44			
9(ii): Total Regulatory Income from Related Party Transactions*	45			
9(ii): Total Regulatory Income from Related Party Transactions*	46	**Total value of related party transactions**		-

9(iii): Total Opex and Capex Related Party Transactions*

Section	Row	Category1| Name of related party	Category2| Nature of opex or capex	Total value of related party transactions ($000)
9(iii): Total Opex and Capex Related Party Transactions*	51		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	52		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	53		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	54		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	55		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	56		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	57		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	58		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	59		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	60		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	61		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	62		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	63		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	64		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	65		[Select one]	
9(iii): Total Opex and Capex Related Party Transactions*	66	**Total value of related party transactions**		-

**Include additional rows if needed*

SCHEDULE 10a: REPORT ON FORECAST OPERATING EXPENDITURE

10a: PQ Asset Register

Section	Row	Context	Category1	Category2	Category3	Category4	Volumes for new fibre investment| Opening volume	Volumes for new fibre investment| Net additional volume	Volumes for new fibre investment| Closing volume	Volumes for new fibre investment| Data accuracy (1 to 4)	Asset condition at start of planning period| (percentage of units by grade)| H1%	Asset condition at start of planning period| (percentage of units by grade)| H2%	Asset condition at start of planning period| (percentage of units by grade)| H3%	Asset condition at start of planning period| (percentage of units by grade)| H4%	Asset condition at start of planning period| (percentage of units by grade)| H5%	Asset condition at start of planning period| (percentage of units by grade)| Data accuracy (1 to 4)	Forecast to be replaced in next 5 years| %	Forecast cost of assets to be replaced in next 5 years| $000| Commission only	Asset Age Profile| CY-50+	Asset Age Profile| CY-46 to -50	Asset Age Profile| CY-41 to -45	Asset Age Profile| CY-36 to -40	Asset Age Profile| CY-31 to -35	Asset Age Profile| CY-26 to -30	Asset Age Profile| CY-21 to -25	Asset Age Profile| CY-16 to -20	Asset Age Profile| CY-11 to-15	Asset Age Profile| CY-10	Asset Age Profile| CY-9	Asset Age Profile| CY-8	Asset Age Profile| CY-7	Asset Age Profile| CY-6	Asset Age Profile| CY-5	Asset Age Profile| CY-4	Asset Age Profile| CY-3	Asset Age Profile| CY-2	Asset Age Profile| CY-1	Asset Age Profile| CY	Asset Age Profile| No. with age unknown	Asset Age Profile| No. with default dates	Asset Age Profile| Data accuracy (1–4)	
10a: PQ Asset Register	4	Asset category	Layer 1 assets	Ducts		Metres	99,488,716	2,052,150	101,540,866	4		0%	1%	46%	53%	3		[CCI]	1,121,551	556,186	774,264	2,159,982	1,951,219	1,468,748	5,389,932	3,221,598	17,025,597	4,881,334	5,151,223	5,963,991	8,263,830	8,105,118	5,630,975	4,436,457	3,331,815	2,041,543	1,830,537	1,650,507	8,428,306	8,156,153		3
10a: PQ Asset Register	5	Asset category	Layer 1 assets	Manholes		No.	278,343	9,717	288,060	3		0%		72%	28%	2			106	9	24	220	4,024	7,060	7,016	13,677	45,858	12,781	12,318	11,734	16,054	18,753	15,400	14,229	13,705	9,309	7,922	7,164	25,024	45,673		2
10a: PQ Asset Register	6	Asset category	Layer 1 assets	OFDF		No.	1,805	44	1,849	4					100%	4							13	143	688	55	40	103	110	112	71	50	29	28	16	28	65	298		3
10a: PQ Asset Register	7	Asset category	Layer 1 assets	Fibre Optic Cable (sheath length)	Aerial	Metres	3,821,858	(6,243)	3,815,615	4	0%				100%	3					306			11,280	51,909	728,341	653,529	481,810	633,353	687,551	186,710	208,083	81,804	20,372	37,799	32,024	744			3
10a: PQ Asset Register	8	Asset category	Layer 1 assets	Fibre Optic Cable (sheath length)	Underground	Metres	52,236,715	847,658	53,084,373	4	15%	7%			78%	3	1.5%				63	137,195	2,265,191	2,559,859	2,593,726	6,562,943	12,496,365	2,380,298	2,175,494	2,248,266	2,974,136	2,859,354	2,122,711	1,914,424	1,521,370	1,204,700	1,159,920	1,044,920	4,863,438			3
10a: PQ Asset Register	9	Asset category	Layer 1 assets	Fibre Optic Cable (route length)	Aerial	Metres	2,067,101	(3,049)	2,064,052	4					N/A						27	173	15,080	20,062	31,856	48,853	334,314	317,140	256,004	322,628	361,217	111,282	133,983	45,596	13,947	20,200	18,385	13,305			3
10a: PQ Asset Register	10	Asset category	Layer 1 assets	Fibre Optic Cable (route length)	Underground	Metres	49,145,509	809,394	49,954,903	4					N/A					23	322,979	2,210,769	2,460,210	2,469,467	6,157,348	11,650,444	2,226,827	2,053,673	2,070,977	2,731,323	2,650,776	1,951,726	1,783,604	1,423,507	1,156,149	1,118,714	988,564	4,527,823			3
10a: PQ Asset Register	11	Asset category	Layer 1 assets	Fibre Service Leads (sheath length)	Aerial	Metres	357,987	(2,258)	355,729	3	0%	0%			100%	3			258					22	46,995	96,316	126,324	4,578	12,663	16,123	7,516	20,367	6,064	9,585	4,820	2,078	2,020			3
10a: PQ Asset Register	12	Asset category	Layer 1 assets	Fibre Service Leads (sheath length)	Underground	Metres	154,060,666	4,947,257	159,007,923	3	0%	0%			100%	3			374			146	114	1,123	124,663	392,428	14,887,292	13,653,202	14,463,052	18,027,708	18,141,166	19,466,374	17,492,412	15,225,329	11,735,504	9,185,674	6,210,244	1,118			3
10a: PQ Asset Register	13	Asset category	Layer 1 assets	Poles		No.	106,775	(2,808)	103,967	3	1%	0%	25%	2%	72%	3	8%		312	50	2,730	1,149	4,016	4,982	15,777	8,632	38,502	4,431	4,404	3,420	2,598	2,248	1,574	1,261	893	1,335	1,121	956	3,575	1		3
10a: PQ Asset Register	14	Asset category	Layer 1 assets	FTTN / FTTP Cabinets		No.	2,274	(6)	2,268	4				2%	98%	3						1	3	55	14	2,139	29	10		2	1	3	3	4	2			2		3
10a: PQ Asset Register	15	Asset category	Other Network Assets	Network land and buildings		No.	731	2	733	3	2%	47%	39%	11%	0%	2	9%		338	69	59	49														1	179	38	2	
10a: PQ Asset Register	16	Asset category	Other Network Assets	Network land and buildings	Handover sites	No.	22	1	23	3	30%	26%	35%	9%		2	64%		18	1	1	3																	2
10a: PQ Asset Register	17	Asset category	Layer 2 assets	FTTN / FTTP Cabinets		No.	286	(14)	272	4							18%						1	44	5	179	26	9		2	1	2	1					2		4
10a: PQ Asset Register	18	Asset category	Layer 2 assets	Splitters		No.	114,147	3,528	117,675	4							34%		4				3			7,939	12,730	11,790	11,728	13,052	13,693	8,315	5,992	4,713	2,716	2,468	2,486		20,046		3
10a: PQ Asset Register	19	Asset category	Layer 2 assets	Network Equipment		No.	-	-	-	N/A							79%																						N/A	
10a: PQ Asset Register	20	Asset category	Layer 2 assets	Network Equipment	ONT devices	No.	1,262,017	42,156	1,304,173	4							18%									5,800	59,057	123,069	136,705	167,675	185,187	156,136	142,078	98,696	90,450	67,909	43,113	28,298			4
10a: PQ Asset Register	21	Asset category	Layer 2 assets	Network Equipment	OLT devices	No.	1,297	27	1,324	4							34%										39	124	182	193	186	185	101	71	86	111	44	2			4
10a: PQ Asset Register	22	Asset category	Layer 2 assets	Network Equipment	Switches	No.	313	(60)	253	4							79%												2	3	4	11	5	7	16	10	4			4
10a: PQ Asset Register	23	Network spares (Combines PQ and ID-only)	Layer 1	ABFAT		No.	39	-	39	4															94	84	4	9											N/A	
10a: PQ Asset Register	24	Network spares (Combines PQ and ID-only)	Layer 1	Cabinet		No.	557	(319)	238	4																													N/A	
10a: PQ Asset Register	25	Network spares (Combines PQ and ID-only)	Layer 1	Fibre Cable		No.	147,165	(17,810)	129,355	4																													N/A	
10a: PQ Asset Register	26	Network spares (Combines PQ and ID-only)	Layer 1	Duct		No.	4,000	-	4,000	4																													N/A	
10a: PQ Asset Register	27	Network spares (Combines PQ and ID-only)	Layer 2	Access (Switch Spares)		No.	5,996	1,214	7,210	4							1%																						N/A	
10a: PQ Asset Register	28	Network spares (Combines PQ and ID-only)	Layer 2	Ethernet		No.	3,945	(1,036)	2,909	4							79%																						N/A	
10a: PQ Asset Register	29	Network spares (Combines PQ and ID-only)	Layer 2	FTTH (ONT)		No.	202	(77)	125	4							13%																						N/A	
10a: PQ Asset Register	30	Network spares (Combines PQ and ID-only)	Layer 2	FTTH (SFP)		No.	135	2	137	4																													N/A	
10a: PQ Asset Register	31	Network spares (Combines PQ and ID-only)	Layer 2	Power System		No.	742	(13)	729	4																													N/A	
10a: PQ Asset Register	32	Network spares (Combines PQ and ID-only)	Layer 2	DWDM		No.	5,359	(703)	4,656	4																													N/A	
10a: PQ Asset Register	33	Network spares (Combines PQ and ID-only)	Layer 2	Controller		No.	180	(102)	78	4																													N/A	

SCHEDULE 11: REPORT ON FORECAST CAPITAL EXPENDITURE

11(i): Expenditure on Assets Forecast

Section	Row	Context	Category1	Category2	Current Year Actual | $000 (in nominal dollars)	CY+1 | $000 (in nominal dollars	CY+2 | $000 (in nominal dollars)	CY+3 | $000 (in nominal dollars)	CY+4 | $000 (in nominal dollars) | May be Commission only	CY+5 | $000 (in nominal dollars) | May be Commission only
11(i): Expenditure on Assets Forecast	4		Extending the network	Augmentation	29,821	12,265	11,949	12,903	14,004	15,163
11(i): Expenditure on Assets Forecast	5		Extending the network	New property development	45,936	53,127	55,864	60,339	64,689	66,297
11(i): Expenditure on Assets Forecast	6		Extending the network	UFB communal	(89)	-	-	-	-	-
11(i): Expenditure on Assets Forecast	7		**Extending the network**		75,668	65,392	67,813	73,242	78,693	81,460
11(i): Expenditure on Assets Forecast	8		Installations	Complex installations	5,615	6,563	6,954	7,234	7,467	7,549
11(i): Expenditure on Assets Forecast	9		Installations	Standard installations	98,083	104,930	90,907	83,249	74,976	65,635
11(i): Expenditure on Assets Forecast	10		**Installations**		103,699	111,493	97,861	90,483	82,442	73,184
11(i): Expenditure on Assets Forecast	11		Network capacity	Access	24,470	22,863	22,848	23,681	26,604	35,104
11(i): Expenditure on Assets Forecast	12		Network capacity	Aggregation	13,074	11,116	13,440	14,912	9,423	18,660
11(i): Expenditure on Assets Forecast	13		Network capacity	Transport	17,036	19,653	12,891	11,478	12,810	13,592
11(i): Expenditure on Assets Forecast	14		**Network capacity**		54,580	53,632	49,178	50,071	48,837	67,356
11(i): Expenditure on Assets Forecast	15		Network sustain & enhance	Field Sustain	13,998	35,495	28,496	33,753	34,044	24,904
11(i): Expenditure on Assets Forecast	16		Network sustain & enhance	Relocations	11,245	12,481	12,766	13,579	13,874	13,550
11(i): Expenditure on Assets Forecast	17		Network sustain & enhance	Resilience	2,137	12,613	12,764	16,107	9,440	1,371
11(i): Expenditure on Assets Forecast	18		Network sustain & enhance	Site Sustain	21,756	21,737	24,786	26,076	26,782	26,365
11(i): Expenditure on Assets Forecast	19		**Network sustain & enhance**		49,135	82,326	78,812	89,515	84,140	66,189
11(i): Expenditure on Assets Forecast	20		Network & customer IT		41,873	45,663	46,230	45,758	45,539	45,198
11(i): Expenditure on Assets Forecast	21		**Expenditure on network assets**		324,954	358,506	339,894	349,070	339,652	333,388
11(i): Expenditure on Assets Forecast	22		Non-network IT & support	Business IT	17,590	21,004	20,545	19,498	19,252	19,188
11(i): Expenditure on Assets Forecast	23		Non-network IT & support	Corporate capex	178	7,118	14,561	20,890	9,488	7,793
11(i): Expenditure on Assets Forecast	24		**Expenditure on non-network assets**		17,767	28,122	35,106	40,388	28,740	26,981
11(i): Expenditure on Assets Forecast	25		**Expenditure on assets**		342,722	386,628	374,999	389,458	368,392	360,369
11(i): Expenditure on Assets Forecast	26	plus	Capital expenditure on assets	Cost of financing	1,210	963	996	1,027	957	894
11(i): Expenditure on Assets Forecast	27	less	Capital expenditure on assets	Value of capital contributions	32,616	33,102	33,119	33,774	34,813	34,818
11(i): Expenditure on Assets Forecast	28		**Capital expenditure on assets**		311,316	354,490	342,876	356,711	334,536	326,445
11(i): Expenditure on Assets Forecast	29		Assets commissioned		346,737	350,425	358,950	361,793	327,902	321,571
11(i): Expenditure on Assets Forecast	30		Subcomponents of expenditure on assets (where known)	Research and development						

11(i): Expenditure on Assets Forecast

Section	Row	Context	Category1	Category2	Current Year Actual | $000 (in constant dollars)	CY+1 | $000 (in constant dollars	CY+2 | $000 (in constant dollars)	CY+3 | $000 (in constant dollars)	CY+4 | $000 (in constant dollars) | May be Commission only	CY+5 | $000 (in constant dollars) | May be Commission only
11(i): Expenditure on Assets Forecast	35		Extending the network	Augmentation	29,821	12,005	11,427	12,084	12,823	13,559
11(i): Expenditure on Assets Forecast	36		Extending the network	New property development	45,936	51,971	53,418	56,501	59,237	59,293
11(i): Expenditure on Assets Forecast	37		Extending the network	UFB communal	(89)	-	-	-	-	-
11(i): Expenditure on Assets Forecast	38		**Extending the network**		75,668	63,975	64,845	68,584	72,060	72,852
11(i): Expenditure on Assets Forecast	39		Installations	Complex installations	5,615	6,433	6,649	6,775	6,838	6,751
11(i): Expenditure on Assets Forecast	40		Installations	Standard installations	98,083	102,347	86,837	77,936	68,660	58,749
11(i): Expenditure on Assets Forecast	41		**Installations**		103,699	108,780	93,486	84,711	75,498	65,500
11(i): Expenditure on Assets Forecast	42		Network capacity	Access	24,470	22,641	22,356	22,849	25,406	33,289
11(i): Expenditure on Assets Forecast	43		Network capacity	Aggregation	13,074	10,916	13,055	14,541	9,203	18,323
11(i): Expenditure on Assets Forecast	44		Network capacity	Transport	17,036	19,556	12,697	11,264	12,507	13,199
11(i): Expenditure on Assets Forecast	45		**Network capacity**		54,580	53,113	48,109	48,654	47,115	64,811
11(i): Expenditure on Assets Forecast	46		Network sustain & enhance	Field Sustain	13,998	34,765	27,254	31,599	31,207	22,287
11(i): Expenditure on Assets Forecast	47		Network sustain & enhance	Relocations	11,245	12,215	12,208	12,715	12,709	12,091
11(i): Expenditure on Assets Forecast	48		Network sustain & enhance	Resilience	2,137	12,348	12,204	15,076	8,696	1,217
11(i): Expenditure on Assets Forecast	49		Network sustain & enhance	Site Sustain	21,756	21,119	23,572	24,321	24,383	23,445
11(i): Expenditure on Assets Forecast	50		**Network sustain & enhance**		49,135	80,446	75,238	83,712	76,995	59,040
11(i): Expenditure on Assets Forecast	51		Network & customer IT		41,873	43,911	43,323	41,720	40,381	38,953
11(i): Expenditure on Assets Forecast	52		**Expenditure on network assets**		324,954	350,225	325,000	327,381	312,050	301,156
11(i): Expenditure on Assets Forecast	53		Non-network IT & support	Business IT	17,590	20,167	19,209	17,715	17,010	16,493
11(i): Expenditure on Assets Forecast	54		Non-network IT & support	Corporate capex	178	6,877	13,869	19,518	8,636	6,950
11(i): Expenditure on Assets Forecast	55		**Expenditure on non-network assets**		17,767	27,045	33,078	37,233	25,647	23,443
11(i): Expenditure on Assets Forecast	56		**Expenditure on assets**		342,722	377,270	358,078	364,614	337,696	324,599
11(i): Expenditure on Assets Forecast	57	plus	Capital expenditure on assets	Cost of financing	1,210	902	911	920	839	768
11(i): Expenditure on Assets Forecast	58	less	Capital expenditure on assets	Value of capital contributions	32,616	32,949	32,798	33,306	34,189	34,016
11(i): Expenditure on Assets Forecast	59		**Capital expenditure forecast**		311,316	345,222	326,191	332,228	304,346	291,351
11(i): Expenditure on Assets Forecast	60		Assets commissioned		346,737	339,075	337,405	333,292	294,964	284,280

SCHEDULE 11: REPORT ON FORECAST CAPITAL EXPENDITURE

11(i): Expenditure on Assets Forecast

Section	Row	Context	Category1	Category2	Current Year Actual| $000 (Difference between nominal and constant price forecasts)	CY+1| $000 (Difference between nominal and constant price forecasts)	CY+2| $000 (Difference between nominal and constant price forecasts)	CY+3| $000 (Difference between nominal and constant price forecasts)	CY+4| $000 (Difference between nominal and constant price forecasts)| May be Commission only	CY+5| $000 (Difference between nominal and constant price forecasts)| May be Commission only
11(i): Expenditure on Assets Forecast	65		Extending the network	Augmentation	-	260	522	819	1,181	1,604
11(i): Expenditure on Assets Forecast	66		Extending the network	New property development	-	1,156	2,446	3,839	5,452	7,004
11(i): Expenditure on Assets Forecast	67		Extending the network	UFB communal	-	-	-	-	-	-
11(i): Expenditure on Assets Forecast	68		**Extending the network**		-	1,416	2,969	4,658	6,633	8,608
11(i): Expenditure on Assets Forecast	69		Installations	Complex installations	-	130	304	459	629	798
11(i): Expenditure on Assets Forecast	70		Installations	Standard installations	-	2,583	4,070	5,313	6,316	6,886
11(i): Expenditure on Assets Forecast	71		**Installations**		-	2,713	4,374	5,772	6,945	7,684
11(i): Expenditure on Assets Forecast	72		Network capacity	Access	-	222	492	832	1,198	1,816
11(i): Expenditure on Assets Forecast	73		Network capacity	Aggregation	-	200	384	371	219	337
11(i): Expenditure on Assets Forecast	74		Network capacity	Transport	-	97	193	214	304	393
11(i): Expenditure on Assets Forecast	75		**Network capacity**		-	519	1,069	1,417	1,721	2,545
11(i): Expenditure on Assets Forecast	76		Network sustain & enhance	Field Sustain	-	731	1,242	2,154	2,837	2,617
11(i): Expenditure on Assets Forecast	77		Network sustain & enhance	Relocations	-	266	558	864	1,166	1,459
11(i): Expenditure on Assets Forecast	78		Network sustain & enhance	Resilience	-	266	560	1,031	744	154
11(i): Expenditure on Assets Forecast	79		Network sustain & enhance	Site Sustain	-	618	1,214	1,755	2,398	2,920
11(i): Expenditure on Assets Forecast	80		**Network sustain & enhance**		-	1,880	3,574	5,803	7,145	7,149
11(i): Expenditure on Assets Forecast	81		Network & customer IT		-	1,752	2,907	4,038	5,158	6,245
11(i): Expenditure on Assets Forecast	82		**Expenditure on network assets**		-	8,281	14,894	21,689	27,602	32,232
11(i): Expenditure on Assets Forecast	83		Non-network IT & support	Business IT	-	836	1,335	1,783	2,242	2,695
11(i): Expenditure on Assets Forecast	84		Non-network IT & support	Corporate capex	-	241	692	1,371	851	844
11(i): Expenditure on Assets Forecast	85		**Expenditure on non-network assets**		-	1,078	2,027	3,155	3,093	3,538
11(i): Expenditure on Assets Forecast	86		**Expenditure on assets**		-	9,358	16,921	24,843	30,696	35,770
11(i): Expenditure on Assets Forecast	87	plus	Capital expenditure on assets	Cost of financing	-	62	85	107	118	126
11(i): Expenditure on Assets Forecast	88	less	Capital expenditure on assets	Value of capital contributions	-	153	321	468	624	802
11(i): Expenditure on Assets Forecast	89		**Capital expenditure forecast**		-	9,267	16,685	24,482	30,190	35,094
11(i): Expenditure on Assets Forecast	90		Assets commissioned		-	11,350	21,545	28,501	32,939	37,291

11(ii): Breakdown of capital contributions

Section	Row	Context	Category1	Category2	Current Year Actual| $000 (in constant dollars)	CY+1| $000 (in constant dollars)	CY+2| $000 (in constant dollars)	CY+3| $000 (in constant dollars)	CY+4| $000 (in constant dollars)| May be Commission only	CY+5| $000 (in constant dollars)| May be Commission only
11(ii): Breakdown of capital contributions	95		Extending the network		19,313	18,930	19,668	20,285	21,490	21,595
11(ii): Breakdown of capital contributions	96		Installations		8,124	6,988	6,101	6,101	5,914	5,795
11(ii): Breakdown of capital contributions	97		Network capacity		-	-	-	-	-	-
11(ii): Breakdown of capital contributions	98		Network sustain & enhance		5,179	7,032	7,029	6,920	6,785	6,626
11(ii): Breakdown of capital contributions	99		Network & customer IT		-	-	-	-	-	-
11(ii): Breakdown of capital contributions	100		**Total**		32,616	32,949	32,798	33,306	34,189	34,016

SCHEDULE 11a: REPORT ON FORECAST OPERATING EXPENDITURE

11a(i): Operating Expenditure Forecast

Section	Row	Category1	Category2	Current Year Actual | $000 (in nominal dollars)	CY+1 | $000 (in nominal dollars	CY+2 | $000 (in nominal dollars)	CY+3 | $000 (in nominal dollars)	CY+4 | $000 (in nominal dollars) | May be Commission only	CY+5 | $000 (in nominal dollars) | May be Commission only
11a(i): Operating Expenditure Forecast	4	Customer opex	Customer operations	(1,945)	(1,148)	(1,499)	(1,760)	(2,012)	(2,259)
11a(i): Operating Expenditure Forecast	5	Customer opex	Product, sales & marketing	28,035	31,618	33,739	35,120	35,782	35,986
11a(i): Operating Expenditure Forecast	6	**Total customer opex**		26,091	30,470	32,240	33,360	33,769	33,726
11a(i): Operating Expenditure Forecast	7	Network opex	Maintenance	31,614	39,323	42,407	45,038	47,325	49,574
11a(i): Operating Expenditure Forecast	8	Network opex	Network operations	25,932	20,291	21,461	22,531	23,685	24,557
11a(i): Operating Expenditure Forecast	9	Network opex	Network operating costs	12,233	9,646	9,554	10,242	10,049	9,419
11a(i): Operating Expenditure Forecast	10	**Total network opex**		69,779	69,259	73,423	77,812	81,059	83,550
11a(i): Operating Expenditure Forecast	11	Support opex	Asset management	12,509	28,919	29,721	29,323	30,346	31,065
11a(i): Operating Expenditure Forecast	12	Support opex	Corporate opex	50,689	46,067	42,589	43,898	46,248	48,821
11a(i): Operating Expenditure Forecast	13	Support opex	Technology	32,885	21,491	22,067	22,470	23,180	24,120
11a(i): Operating Expenditure Forecast	14	**Total support opex**		96,083	96,476	94,377	95,691	99,774	104,005
11a(i): Operating Expenditure Forecast	15	**Operating expenditure**		191,953	196,206	200,040	206,863	214,602	221,282
11a(i): Operating Expenditure Forecast	16	Subcomponents of operating expenditure (where known)	Research and development	-	-	-	-	-	-
11a(i): Operating Expenditure Forecast	17	Subcomponents of operating expenditure (where known)	Insurance	4,934	5,221	5,414	5,587	5,747	5,917

11a(i): Operating Expenditure Forecast

Section	Row	Category1	Category2	Current Year Actual | $000 (in constant dollars)	CY+1 | $000 (in constant dollars	CY+2 | $000 (in constant dollars)	CY+3 | $000 (in constant dollars)	CY+4 | $000 (in constant dollars) | May be Commission only	CY+5 | $000 (in constant dollars) | May be Commission only
11a(i): Operating Expenditure Forecast	22	Customer opex	Customer operations	(1,945)	(1,037)	(1,306)	(1,476)	(1,621)	(1,750)
11a(i): Operating Expenditure Forecast	23	Customer opex	Product, sales & marketing	28,035	30,334	31,549	31,979	31,689	30,955
11a(i): Operating Expenditure Forecast	24	**Total customer opex**		26,091	29,297	30,244	30,503	30,068	29,205
11a(i): Operating Expenditure Forecast	25	Network opex	Maintenance	31,614	38,372	40,451	42,079	43,253	44,278
11a(i): Operating Expenditure Forecast	26	Network opex	Network operations	25,932	19,589	20,226	20,719	21,202	21,398
11a(i): Operating Expenditure Forecast	27	Network opex	Network operating costs	12,233	9,351	9,071	9,525	9,144	8,369
11a(i): Operating Expenditure Forecast	28	**Total network opex**		69,779	67,312	69,748	72,323	73,599	74,045
11a(i): Operating Expenditure Forecast	29	Support opex	Asset mangament	12,509	27,773	27,781	26,599	26,677	26,447
11a(i): Operating Expenditure Forecast	30	Support opex	Corporate opex	50,689	44,135	39,538	39,564	40,464	41,454
11a(i): Operating Expenditure Forecast	31	Support opex	Technology	32,885	20,461	20,357	20,076	20,026	20,137
11a(i): Operating Expenditure Forecast	32	**Total support opex**		96,083	92,369	87,676	86,238	87,167	88,038
11a(i): Operating Expenditure Forecast	33	**Operating expenditure**		191,953	188,978	187,668	189,064	190,833	191,288

11a(i): Operating Expenditure Forecast

Section	Row	Category1	Category2	Current Year Actual | $000 (Difference between nominal and constant price forecasts)	CY+1 | $000 (Difference between nominal and constant price forecasts)	CY+2 | $000 (Difference between nominal and constant price forecasts)	CY+3 | $000 (Difference between nominal and constant price forecasts)	CY+4 | $000 (Difference between nominal and constant price forecasts) | May be Commission only	CY+5 | $000 (Difference between nominal and constant price forecasts) | May be Commission only
11a(i): Operating Expenditure Forecast	38	Customer opex	Customer operations	-	(110)	(193)	(284)	(392)	(510)
11a(i): Operating Expenditure Forecast	39	Customer opex	Product, sales & marketing	-	1,284	2,190	3,141	4,093	5,030
11a(i): Operating Expenditure Forecast	40	**Total customer opex**		-	1,173	1,997	2,857	3,701	4,521
11a(i): Operating Expenditure Forecast	41	Network opex	Maintenance	-	951	1,956	2,959	4,072	5,295
11a(i): Operating Expenditure Forecast	42	Network opex	Network operations	-	702	1,235	1,812	2,483	3,159
11a(i): Operating Expenditure Forecast	43	Network opex	Network operating costs	-	294	483	717	905	1,050
11a(i): Operating Expenditure Forecast	44	**Total network opex**		-	1,947	3,675	5,489	7,460	9,505
11a(i): Operating Expenditure Forecast	45	Support opex	Asset mangament	-	1,145	1,940	2,724	3,669	4,618
11a(i): Operating Expenditure Forecast	46	Support opex	Corporate opex	-	1,932	3,050	4,334	5,784	7,367
11a(i): Operating Expenditure Forecast	47	Support opex	Technology	-	1,030	1,711	2,394	3,154	3,983
11a(i): Operating Expenditure Forecast	48	**Total support opex**		-	4,107	6,701	9,453	12,607	15,968
11a(i): Operating Expenditure Forecast	49	**Operating expenditure**		-	7,227	12,372	17,798	23,769	29,993

SCHEDULE 12: REPORT ON FORECAST CAPACITY AND UTILISATION

12(i): System Capacity and Utilisation

Section	Row	Category1| POI area	Category2	Current year| Number of COs	Current Year| Number of P2P end-user connections within POI area	3 Year Forecast| Number of P2P end users within POI area	5 Year Forecast| Number of P2P end users within POI area	Current Year| Number of PON end-users from CO	3 Year Forecast| Number of PON end-users from CO	5 Year Forecast| Number of PON end-users from CO	Current year| Central office (CO) to fibre flexibility point (FFPs), with percentage fill greater than 85%	3 Year Forecast| Central office (CO) to fibre flexibility point (FFPs), with percentage fill greater than 85%	5 Year Forecast| Central office (CO) to fibre flexibility point (FFPs), with percentage fill greater than 85%	Current year| Premises Passed	3 Year Forecast| Premises Passed	5 Year Forecast| Premises Passed
12(i): System Capacity and Utilisation	4	Ashburton		14	36	39	40	8,348	9,356	9,861	31	56	73	12,179	12,652	12,979
12(i): System Capacity and Utilisation	5	Auckland		91	2,686	2,908	3,042	530,060	599,833	639,364	3,913	5,621	6,929	709,964	742,690	767,773
12(i): System Capacity and Utilisation	6	Blenheim		14	51	54	55	14,235	15,786	16,539	37	75	100	20,214	20,941	21,433
12(i): System Capacity and Utilisation	7	Christchurch		71	427	462	479	18,688	21,569	22,899	29	99	145	30,848	32,199	33,075
12(i): System Capacity and Utilisation	8	Dunedin		24	200	210	213	44,741	49,339	51,459	261	374	447	62,385	64,542	65,938
12(i): System Capacity and Utilisation	9	Gisborne		19	58	62	64	11,512	12,858	13,589	74	107	132	16,163	16,794	17,261
12(i): System Capacity and Utilisation	10	Greymouth		25	114	120	123	8,723	9,361	9,596	69	85	93	14,115	14,414	14,577
12(i): System Capacity and Utilisation	11	Hamilton		98	412	448	466	24,573	28,635	30,616	76	175	242	37,872	39,778	41,068
12(i): System Capacity and Utilisation	12	Invercargill		55	186	194	196	29,585	32,152	33,126	134	197	232	45,784	46,988	47,657
12(i): System Capacity and Utilisation	13	Kapiti		6	52	55	57	17,840	19,858	21,009	(20)	29	68	27,551	28,497	29,227
12(i): System Capacity and Utilisation	14	Levin		7	42	51	57	10,313	12,599	14,009	28	84	130	16,094	17,166	18,048
12(i): System Capacity and Utilisation	15	Masterton		14	56	60	61	13,245	14,777	15,529	80	118	143	19,195	19,913	20,403
12(i): System Capacity and Utilisation	16	Napier & Hastings		41	172	183	188	48,313	53,856	56,775	153	289	386	68,240	70,840	72,716
12(i): System Capacity and Utilisation	17	Nelson		20	85	84	82	31,832	34,375	35,447	188	250	288	43,344	44,537	45,256
12(i): System Capacity and Utilisation	18	New Plymouth		35	157	168	173	2,620	2,822	2,913	(13)	(8)	(5)	4,066	4,161	4,221
12(i): System Capacity and Utilisation	19	Oamaru		12	52	54	55	5,837	6,272	6,381	49	60	64	9,522	9,726	9,810
12(i): System Capacity and Utilisation	20	Palmerston North		40	232	240	241	40,915	44,280	45,434	223	305	348	57,487	59,065	59,877
12(i): System Capacity and Utilisation	21	Queenstown		18	170	183	188	28,765	32,309	34,027	13	99	158	41,286	42,948	44,069
12(i): System Capacity and Utilisation	22	Rotorua		16	88	102	110	21,305	25,266	27,499	127	224	298	30,912	32,770	34,188
12(i): System Capacity and Utilisation	23	Taupo		9	66	69	70	13,761	15,135	15,756	142	175	197	22,191	22,835	23,246
12(i): System Capacity and Utilisation	24	Tauranga		23	201	214	220	17,182	19,007	19,693	115	160	184	32,160	33,016	33,488
12(i): System Capacity and Utilisation	25	Timaru		24	73	75	73	17,182	18,609	18,996	131	165	181	26,327	26,996	27,286
12(i): System Capacity and Utilisation	26	Whanganui		15	28	30	31	450	580	601	(6)	(3)	(2)	876	937	956
12(i): System Capacity and Utilisation	27	Wellington		28	739	784	809	135,009	150,036	158,065	1,047	1,415	1,684	191,262	198,310	203,456
12(i): System Capacity and Utilisation	28	Whakatane		13	67	70	71	11,378	12,462	12,826	25	51	65	17,030	17,538	17,796
12(i): System Capacity and Utilisation	29	Whangarei		42	230	248	256	14,072	16,014	16,795	21	69	97	24,368	25,278	25,808
12(i): System Capacity and Utilisation	30	[POI area]														
12(i): System Capacity and Utilisation	31	**Total**			6,683	7,163	7,419	1,120,487	1,257,143	1,328,803	6,926	10,270	12,674	1,581,435	1,645,531	1,691,609

include additional rows if needed

SCHEDULE 12a: REPORT ON FORECAST NETWORK DEMAND

12a(i): Active forecast connections

Section	Row	Category1	Category2	Number of PON connections| Current Year CY| May be Commission only	Number of PON connections| CY+1| May be Commission only	Number of PON connections| CY+2| May be Commission only	Number of PON connections| CY+3| May be Commission only	Number of PON connections| CY+4| May be Commission only	Number of PON connections| CY+5| May be Commission only
12a(i): Active Forecast Connections	4	PON connections by service description*	PONFAS						
12a(i): Active Forecast Connections	5	PON connections by service description*	STARTER						
12a(i): Active Forecast Connections	6	PON connections by service description*	Evolve <100Mbps						
12a(i): Active Forecast Connections	7	PON connections by service description*	Evolve 100Mbps						
12a(i): Active Forecast Connections	8	PON connections by service description*	Evolve 200Mbps						
12a(i): Active Forecast Connections	9	PON connections by service description*	Evolve 300Mbps						
12a(i): Active Forecast Connections	10	PON connections by service description*	Evolve 1Gbps						
12a(i): Active Forecast Connections	11	PON connections by service description*	Hyperfibre 1Gbps						
12a(i): Active Forecast Connections	12	PON connections by service description*	Hyperfibre 2Gbps						
12a(i): Active Forecast Connections	13	PON connections by service description*	Hyperfibre 4Gbps						
12a(i): Active Forecast Connections	14	PON connections by service description*	Hyperfibre 8Gbps						
12a(i): Active Forecast Connections	15	PON connections by service description*	NGA Voice						
12a(i): Active Forecast Connections	16	PON connections by service description*	Secondary NGA connections						
12a(i): Active Forecast Connections	17	PON connections by service description*	TBD NGA connections						
12a(i): Active Forecast Connections	18	PON connections by service description*	NGA Small Business 100mb						
12a(i): Active Forecast Connections	19	PON connections by service description*	NGA Small Business 1Gb						
12a(i): Active Forecast Connections	20	PON connections by service description*	NGA Education						
12a(i): Active Forecast Connections	21	PON connections by service description*	NGA Business						
12a(i): Active Forecast Connections	22	PON connections by service description*	Hyperfibre Business						
12a(i): Active Forecast Connections	23	PON connections by service description*	Hyperfibre Education						
12a(i): Active Forecast Connections	24	PON connections by service description*	High Priority Access Hyperfibre - Business						
12a(i): Active Forecast Connections	25	PON connections by service description*	High Priority Access Hyperfibre - Cell/Networks						
12a(i): Active Forecast Connections	26	PON connections by service description*	Smart Locations 50-50						
12a(i): Active Forecast Connections	27	**Total PON connections by service description**		1,120,487	1,169,286	1,212,769	1,257,143	1,296,143	1,328,803
12a(i): Active Forecast Connections	28	Other PON connections							
12a(i): Active Forecast Connections	29	P2P connections		6,683	6,917	7,035	7,163	7,291	7,419
12a(i): Active Forecast Connections	30	**Total connections**		1,127,170	1,176,203	1,219,804	1,264,306	1,303,434	1,336,222
12a(i): Active Forecast Connections	31	Sum of PON service connection speeds (Megabits per second)		495,666,450	519,147,402	537,163,351	554,002,650	578,032,675	609,030,475
12a(i): Active Forecast Connections	32	**Average speed (Megabits per second)**		442	444	443	441	446	458
12a(i): Active Forecast Connections	33	**Average throughput per user (Megabits per second)**		4.29	4.70	5.13	5.59	6.09	6.63

**include additional rows if needed*

12a(ii): System Traffic

Section	Row	Category1	Category2| POI area	Demand by POI area (observed)| Gigabits per second| Current Year CY| May be Commission only	Demand by POI area| Gigabits per second| CY+1| May be Commission only	Demand by POI area| Gigabits per second| CY+2| May be Commission only	Demand by POI area| Gigabits per second| CY+3| May be Commission only	Demand by POI area| Gigabits per second| CY+4| May be Commission only	Demand by POI area| Gigabits per second| CY+5| May be Commission only
12a(ii): System Traffic	39	Aggregate coincident maximum peak demand across all ports	Ashburton						
12a(ii): System Traffic	40	Aggregate coincident maximum peak demand across all ports	Auckland						
12a(ii): System Traffic	41	Aggregate coincident maximum peak demand across all ports	Blenheim						
12a(ii): System Traffic	42	Aggregate coincident maximum peak demand across all ports	Christchurch						
12a(ii): System Traffic	43	Aggregate coincident maximum peak demand across all ports	Dunedin						
12a(ii): System Traffic	44	Aggregate coincident maximum peak demand across all ports	Gisborne						
12a(ii): System Traffic	45	Aggregate coincident maximum peak demand across all ports	Greymouth						
12a(ii): System Traffic	46	Aggregate coincident maximum peak demand across all ports	Hamilton						
12a(ii): System Traffic	47	Aggregate coincident maximum peak demand across all ports	Invercargill						
12a(ii): System Traffic	48	Aggregate coincident maximum peak demand across all ports	Kapiti						
12a(ii): System Traffic	49	Aggregate coincident maximum peak demand across all ports	Levin						
12a(ii): System Traffic	50	Aggregate coincident maximum peak demand across all ports	Masterton						
12a(ii): System Traffic	51	Aggregate coincident maximum peak demand across all ports	Napier & Hastings						
12a(ii): System Traffic	52	Aggregate coincident maximum peak demand across all ports	Nelson						
12a(ii): System Traffic	53	Aggregate coincident maximum peak demand across all ports	New Plymouth						
12a(ii): System Traffic	54	Aggregate coincident maximum peak demand across all ports	Oamaru						
12a(ii): System Traffic	55	Aggregate coincident maximum peak demand across all ports	Palmerston North						
12a(ii): System Traffic	56	Aggregate coincident maximum peak demand across all ports	Queenstown						
12a(ii): System Traffic	57	Aggregate coincident maximum peak demand across all ports	Rotorua						
12a(ii): System Traffic	58	Aggregate coincident maximum peak demand across all ports	Taupo						
12a(ii): System Traffic	59	Aggregate coincident maximum peak demand across all ports	Tauranga						
12a(ii): System Traffic	60	Aggregate coincident maximum peak demand across all ports	Timaru						
12a(ii): System Traffic	61	Aggregate coincident maximum peak demand across all ports	Whanganui						
12a(ii): System Traffic	62	Aggregate coincident maximum peak demand across all ports	Wellington						
12a(ii): System Traffic	63	Aggregate coincident maximum peak demand across all ports	Whakatane						
12a(ii): System Traffic	64	Aggregate coincident maximum peak demand across all ports	Whangarei						
12a(ii): System Traffic	65	Aggregate coincident maximum peak demand across all ports	**Sum**	4,806	5,490	6,221	7,032	7,896	8,806
12a(ii): System Traffic	66	**System peak (maximum observed peak in gigabits per second)**		4,806					
12a(ii): System Traffic	67	**Forecast system peak**			5,490	6,221	7,032	7,896	8,806
12a(ii): System Traffic	68	**Percentage of sum of peaks (%)**		100%	100%	100%	100%	100%	100%

SCHEDULE 12a: REPORT ON FORECAST NETWORK DEMAND

12a(ii): System Traffic

Section	Row	Category1	Category2 | POI area	Demand by POI area (observed) | Gigabits per second | Current Year CY | May be Commission only	Demand by POI area | Gigabits per second | CY+1 | May be Commission only	Demand by POI area | Gigabits per second | CY+2 | May be Commission only	Demand by POI area | Gigabits per second | CY+3 | May be Commission only	Demand by POI area | Gigabits per second | CY+4 | May be Commission only	Demand by POI area | Gigabits per second | CY+5 | May be Commission only
12a(ii): System Traffic	73	Average demand by POI area	Ashburton	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
12a(ii): System Traffic	74	Average demand by POI area	Auckland						
12a(ii): System Traffic	75	Average demand by POI area	Blenheim						
12a(ii): System Traffic	76	Average demand by POI area	Christchurch						
12a(ii): System Traffic	77	Average demand by POI area	Dunedin						
12a(ii): System Traffic	78	Average demand by POI area	Gisborne						
12a(ii): System Traffic	79	Average demand by POI area	Greymouth						
12a(ii): System Traffic	80	Average demand by POI area	Hamilton						
12a(ii): System Traffic	81	Average demand by POI area	Invercargill						
12a(ii): System Traffic	82	Average demand by POI area	Kapiti						
12a(ii): System Traffic	83	Average demand by POI area	Levin						
12a(ii): System Traffic	84	Average demand by POI area	Masterton						
12a(ii): System Traffic	85	Average demand by POI area	Napier & Hastings						
12a(ii): System Traffic	86	Average demand by POI area	Nelson						
12a(ii): System Traffic	87	Average demand by POI area	New Plymouth						
12a(ii): System Traffic	88	Average demand by POI area	Oamaru						
12a(ii): System Traffic	89	Average demand by POI area	Palmerston North						
12a(ii): System Traffic	90	Average demand by POI area	Queenstown						
12a(ii): System Traffic	91	Average demand by POI area	Rotorua						
12a(ii): System Traffic	92	Average demand by POI area	Taupo						
12a(ii): System Traffic	93	Average demand by POI area	Tauranga						
12a(ii): System Traffic	94	Average demand by POI area	Timaru						
12a(ii): System Traffic	95	Average demand by POI area	Whanganui						
12a(ii): System Traffic	96	Average demand by POI area	Wellington						
12a(ii): System Traffic	97	Average demand by POI area	Whakatane						
12a(ii): System Traffic	98	Average demand by POI area	Whangarei						
12a(ii): System Traffic	99	Average demand by POI area	**Total**	2,439	2,751	3,079	3,440	3,819	4,210

12a(ii): System Traffic

Section	Row	Category1	Category2 | POI area	Average to Peak Ratio by POI area (observed) | % | Current Year CY	Average to Peak Ratio by POI area | % | CY+1	Average to Peak Ratio by POI area | % | CY+2	Average to Peak Ratio by POI area | % | CY+3	Average to Peak Ratio by POI area | % | CY+4	Average to Peak Ratio by POI area | % | CY+5
12a(ii): System Traffic	104	Average to peak ratio	Ashburton	49%	49%	48%	47%	47%	46%
12a(ii): System Traffic	105	Average to peak ratio	Auckland	52%	51%	51%	50%	49%	49%
12a(ii): System Traffic	106	Average to peak ratio	Blenheim	48%	48%	47%	47%	46%	46%
12a(ii): System Traffic	107	Average to peak ratio	Christchurch	48%	48%	47%	46%	46%	45%
12a(ii): System Traffic	108	Average to peak ratio	Dunedin	49%	48%	47%	47%	46%	46%
12a(ii): System Traffic	109	Average to peak ratio	Gisborne	53%	52%	52%	51%	50%	50%
12a(ii): System Traffic	110	Average to peak ratio	Greymouth	48%	48%	47%	46%	46%	45%
12a(ii): System Traffic	111	Average to peak ratio	Hamilton	50%	49%	49%	48%	47%	47%
12a(ii): System Traffic	112	Average to peak ratio	Invercargill	49%	48%	48%	47%	47%	46%
12a(ii): System Traffic	113	Average to peak ratio	Kapiti	45%	45%	44%	44%	43%	43%
12a(ii): System Traffic	114	Average to peak ratio	Levin	49%	49%	48%	47%	47%	46%
12a(ii): System Traffic	115	Average to peak ratio	Masterton	48%	47%	47%	46%	45%	45%
12a(ii): System Traffic	116	Average to peak ratio	Napier & Hastings	48%	48%	47%	46%	46%	45%
12a(ii): System Traffic	117	Average to peak ratio	Nelson	47%	47%	46%	46%	45%	45%
12a(ii): System Traffic	118	Average to peak ratio	New Plymouth	51%	50%	49%	49%	48%	48%
12a(ii): System Traffic	119	Average to peak ratio	Oamaru	52%	51%	50%	50%	49%	49%
12a(ii): System Traffic	120	Average to peak ratio	Palmerston North	50%	49%	48%	48%	47%	47%
12a(ii): System Traffic	121	Average to peak ratio	Queenstown	50%	50%	49%	49%	48%	48%
12a(ii): System Traffic	122	Average to peak ratio	Rotorua	50%	49%	48%	48%	47%	47%
12a(ii): System Traffic	123	Average to peak ratio	Taupo	46%	45%	45%	44%	44%	43%
12a(ii): System Traffic	124	Average to peak ratio	Tauranga	46%	45%	45%	44%	44%	43%
12a(ii): System Traffic	125	Average to peak ratio	Timaru	50%	50%	49%	48%	48%	47%
12a(ii): System Traffic	126	Average to peak ratio	Whanganui	57%	56%	56%	55%	54%	54%
12a(ii): System Traffic	127	Average to peak ratio	Wellington	52%	51%	50%	50%	49%	49%
12a(ii): System Traffic	128	Average to peak ratio	Whakatane	51%	51%	50%	50%	49%	48%
12a(ii): System Traffic	129	Average to peak ratio	Whangarei	51%	50%	50%	49%	49%	48%
12a(ii): System Traffic	130	Average to peak ratio	**Total**	51%	50%	50%	49%	48%	48%

include additional rows if needed

SCHEDULE 13: REPORT ON ASSET MANAGEMENT CAPABILITY

13(i): Asset Management Capability, Self Assessment Questions

Section	Question No.	Function	Question	Maturity Level Score	Evidence - Summary	Target Score CY+3	Initiatives planned to achieve target score	Why	Who	Record/documented Information	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
13(i): Asset Management Capability, Self Assessment Questions	**1**	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	3	Our Asset Management Policy meets the requirements of ISO55001. Our Asset Management Policy was most recently updated, endorsed and authorised by our CEO in April 2025 and accurately reflects our current approach to asset management. This Policy is communicated to all staff and service partners through our Executive Team and our internal intranet site where it can be accessed by all Chorus employees.	3	As part of Chorus' standard policy governance process, our Asset Management Policy is scheduled for review and sign-off on a 2 year cycle. The latest review and update was completed in April 2025, with the next review due by April 2027 or sooner if necessary and will follow our policy review and publication process. We do recognise the continual need to align the consistency of our Asset Management Policy terminology with our other strategic documentation such as our Strategic Asset Management Plan and our wider Asset Management System documentation.	Widely used AM practice standards require an organisation to document, authorise and communicate its asset management policy. A key pre-requisite of any robust policy is that the organisation's top management must be seen to endorse and fully support it. Also vital to the effective implementation of the policy, is to tell the appropriate people of its content and their obligations under it. Where an organisation outsources some of its asset-related activities, then these people and their organisations must equally be made aware of the policy's content. Also, there may be other stakeholders, such as regulatory authorities and shareholders who should be made aware of it.	Top management. The management team that has overall responsibility for asset management.	The organisation's asset management policy, its organisational strategic plan, documents indicating how the asset management policy was based upon the needs of the organisation and evidence of communication.	The organisation does not have a documented asset management policy.	The organisation has an asset management policy, but it has not been authorised by top management, or it is not influencing the management of the assets.	The organisation has an asset management policy, which has been authorised by top management, but it has had limited circulation. It may be in use to influence development of strategy and planning but its effect is limited.	The asset management policy is authorised by top management, is widely and effectively communicated to all relevant employees and stakeholders, and used to make these persons aware of their asset related obligations.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**2**	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	3	Our Asset Management Strategy, and the approach we adopt to implement this, is aligned to leading practice with the greatest probability of enabling improvements to be successfully owned and embedded within Chorus. Our Asset Management Strategy is defined by three principal layers, these being our high-level strategic documents (such as our Asset Management Policy and Strategic Asset Management Plan), our technology sub-strategies and our portfolio/domain asset management plans. These three layers inform our long-term planning processes to ensure our investments meet organisational objectives. Work is continuing to ensure we have consistency between our various asset management policies, strategies and plans. Progress continues to be made with developing and updating our various technology sub-strategies, the purpose of which is to provide strategic guidance across multiple Portfolio Asset Management Plans and IT Domain Plans. These sub-strategies provide direction to enable clear linkages between our technology strategy and investment plans. We have also documented our asset management system which is an important step in helping Chorus identify all of the component parts that inform asset decision making and identify future asset management capability priorities. Since our previous submission, we have reviewed and updated all of our Portfolio Asset Management Plans and IT Domain Plans to ensure these align and are consistent with our broader rganisational strategies and policies.	3	Our focus moving forward remains to better align the objectives of our asset management approach to improve consistency in our decision making and to mitigate any gaps, duplication and missed opportunities. We plan to do this by continuing to review and update core documents across all three layers of our asset management approach on an iterative basis and in co-ordination with stakeholders. We will continue to ensure there is consistency between our asset management policies, strategies and plans to reflect how our future asset management strategy has been embedded across the organisation.	In setting an organisation's asset management strategy, it is important that it is consistent with any other policies and strategies that the organisation has, and has taken into account the requirements of relevant stakeholders. This question examines to what extent the asset management strategy is consistent with other organisational policies and strategies and has taken account of stakeholder requirements. Generally, this will take into account the same policies, strategies and stakeholder requirements as covered in drafting the asset management policy but at a greater level of detail.	Top management. The organisation's strategic planning team. The management team that has overall responsibility for asset management.	The organisation's asset management strategy document and other related organisational policies and strategies. Other than the organisation's strategic plan, these could include those relating to health and safety, environmental, etc. Results of stakeholder consultation.	The organisation has not considered the need to ensure that its asset management strategy is appropriately aligned with the organisation's other organisational policies and strategies or with stakeholder requirements. OR The organisation does not have an asset management strategy.	The need to align the asset management strategy with other organisational policies and strategies as well as stakeholder requirements is understood and work has started to identify the linkages or to incorporate them in the drafting of asset management strategy.	Some of the linkages between the long-term asset management strategy and other organisational policies, strategies and stakeholder requirements are defined but the work is fairly well advanced but still incomplete.	All linkages are in place and evidence is available to demonstrate that, where appropriate, the organisation's asset management strategy is consistent with its other organisational policies and strategies. The organisation has also identified and considered the requirements of relevant stakeholders.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**3**	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	3	We have now completed a review and refresh of key documentation across all three layers of our asset management approach. This includes our Asset Management Policy, Strategic Asset Management Plan, technology sub-strategies and our Portfolio Asset Management Plans and IT Domain Plans. These will continue to be reviewed on an iterative basis at least every 12 months to reflect any changes to our assets and the way these are managed at the portfolio and/or domain level. The lifecycles of assets directly inform our asset management strategy and we have entered a new phase of realising benefits from improvement implementation. Many improvements discussed, scoped and documented over the last couple of years are now being implemented and benefits continue to be progressively realised. Asset lifecycles and investment horizons vary between asset categories and asset types which is captured through our long-term planning processes. It is important to note fibre asset lifecycles can be influenced by unknown events that can lead to assets needing replacement before the end of their expected lives. Our asset lifecycles continue to be reviewed annually for audit purposes, and our plan to evolve Portfolio Asset Management Plans and IT Domain Plans in the lead-up to RP3 will also assist in the management of our assets across their entire lifecycle and meet current sustainability reporting requirements.	3	Our intention remains to develop lifecycle plans for major asset categories and ensure updates continue to be reflected in our financial investment planning and reporting. This approach will enable us to consider the specific drivers that influence asset lives, as these can often vary significantly across individual asset portfolios. We expect improvements to be made across some areas but not all asset categories in the CY+3 period.	Good asset stewardship is the hallmark of an organisation compliant with widely used AM standards. A key component of this is the need to take account of the lifecycle of the assets, asset types and asset systems. This question explores what an organisation has done to take lifecycle into account in its asset management strategy.	Top management. People in the organisation with expert knowledge of the assets, asset types, asset systems and their associated life-cycles. The management team that has overall responsibility for asset management. Those responsible for developing and adopting methods and processes used in asset management	The organisation's documented asset management strategy and supporting working documents.	The organisation has not considered the need to ensure that its asset management strategy is produced with due regard to the lifecycle of the assets, asset types or asset systems that it manages. OR The organisation does not have an asset management strategy.	The need is understood, and the organisation is drafting its asset management strategy to address the lifecycle of its assets, asset types and asset systems.	The long-term asset management strategy takes account of the lifecycle of some, but not all, of its assets, asset types and asset systems.	The asset management strategy takes account of the lifecycle of all of its assets, asset types and asset systems.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**4**	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?	3	As noted in our response to Question 2 and Question 3, our asset management strategy is defined by three principal layers that all influence lifecycle activities. We have reviewed and refreshed all our core asset management documentation across all three layers in the past twelve months. This includes the development of further Technology sub-strategies and updating all of our Portfolio Asset Management Plans and IT Domain Plans. Examples include each Portfolio Asset Management Plan and IT Domain Plan now including dedicated chapters on their interdependencies with sub-strategies, our broader strategic policies and how they support the delivery of these objectives. Lifecycle activities in general are captured through long range investment planning processes for each asset category.	3	Please refer to our response to Question. 2 above. We intend to continue reviewing and updating all our key asset management documentation across all three layers of our asset management approach on an iterative basis and in co-ordination with stakeholders.	The asset management strategy need to be translated into practical plan(s) so that all parties know how the objectives will be achieved. The development of plan(s) will need to identify the specific tasks and activities required to optimize costs, risks and performance of the assets and/or asset system(s), when they are to be carried out and the resources required.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers.	The organisation's asset management plan(s).	The organisation does not have an identifiable asset management plan(s) covering asset systems and critical assets.	The organisation has asset management plan(s) but they are not aligned with the asset management strategy and objectives and do not take into consideration the full asset life cycle (including asset creation, acquisition, enhancement, utilisation, maintenance decommissioning and disposal).	The organisation is in the process of putting in place comprehensive, documented asset management plan(s) that cover all life cycle activities, clearly aligned to asset management objectives and the asset management strategy.	Asset management plan(s) are established, documented, implemented and maintained for asset systems and critical assets to achieve the asset management strategy and asset management objectives across all life cycle phases.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**5**	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	2	Since our previous submission a new Corprate Strategy has been developed and implemented across Chorus. One of the strategic pillars in our new Corporate Strategy is to achieve operational excellence, and becoming a mature asset operator is core to achieving this objective. This has already resulted in an improved focus of asset management activities across Chorus. Our refreshed and updated Strategic Asset Management Plan was approved in April 2025 and approved by our Chief Technology Officer. The process to refresh and update this core asset management document was undertaken following the development of a 'Path to RP3 Plan' that sets-out key components of our asset management system we are intending to improve in time for our RP3 regulatory submission. The Strategic Asset Management Plan will be reviewed and refreshed again in 2026 to ensure this is up-to-date at the time of submitting our RP3 proposal. Our asset management capability communications plan continues to be rolled-out across the organisation and annual planning processes are communicated across the organisation to ensure our resources are aligned to meet our business plan. Our Asset Management Leadership Team, made up of senior managers from across our business with responsibility for overseeing key asset management related decisions, remain responsible for communicating key asset management capability decisions to their respective parts of the organisation.	3	We understand the need to remain focused on continuing to better communicate our specific asset management plans across the business. Our new Corporate Strategy will help to achieve by ensuring we are focused on becoming a mature asset operator to help achieve operational excellence. Our future initiatives will greatly assist us in ensuring the input of a more diverse group of internal stakeholders and then communicating key asset management decisions across the business. The updating and refreshing of our Asset Management Policy, Strategic Asset Management Plan and the development of our Path to RP3 Plan have all involved a high degree of communication and interaction with stakeholders across Chorus. We are intending to maintain these high levels of ongoing communication in relation to asset management in future.	Plans will be ineffective unless they are communicated to all those, including contracted suppliers and those who undertake enabling function(s). The plan(s) need to be communicated in a way that is relevant to those who need to use them.	The management team with overall responsibility for the asset management system. Delivery functions and suppliers.	Distribution lists for plan(s). Documents derived from plan(s) which detail the receivers role in plan delivery. Evidence of communication.	The organisation does not have plan(s) or their distribution is limited to the authors.	The plan(s) are communicated to some of those responsible for delivery of the plan(s). OR Communicated to those responsible for delivery is either irregular or ad-hoc.	The plan(s) are communicated to most of those responsible for delivery but there are weaknesses in identifying relevant parties resulting in incomplete or inappropriate communication. The organisation recognises improvement is needed as is working towards resolution.	The plan(s) are communicated to all relevant employees, stakeholders and contracted service providers to a level of detail appropriate to their participation or business interests in the delivery of the plan(s) and there is confirmation that they are being used effectively.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**6**	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	3	Our Strategic Asset Management Plan, Portfolio Asset Management Plans and IT Domain Plans formally document roles and accountabilities and identify roles and responsibilities for the successful delivery of those plans. We have previously undertaken an exercise to map the inputs, responsibilities and accountabilities of key personnel across all stages of our asset management system. Our most recent organisational re-design has also sought make asset management accountabilities clearer, especially in areas such as asset data where a dedicated centre of excellence has been established to improve accountabilities in this important area. This has led to an improved understanding of existing asset management accountabilities and where further clarity around specific responsibilities is needed. Though many Key Performance Indicators, targets and objectives exist across our business, no approved set of asset management objectives and/or linkage to decision criteria exist.	3	Improvements will continue to be made to further clarify asset management roles and responsibilities across Chorus. We consider further improvements can be made to align asset management accountabilities across our various business functions to ensure planning and delivery functions better align with asset specific and wider strategic objectives.	The implementation of asset management plan(s) relies on (1) actions being clearly identified, (2) an owner allocated and (3) that owner having sufficient delegated responsibility and authority to carry out the work required. It also requires alignment of actions across the organisation. This question explores how well the plan(s) set out responsibility for delivery of asset plan actions.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team.	The organisation's asset management plan(s). Documentation defining roles and responsibilities of individuals and organisational departments.	The organisation has not documented responsibilities for delivery of asset plan actions.	Asset management plan(s) inconsistently document responsibilities for delivery of plan actions and activities and/or responsibilities and authorities for implementation inadequate and/or delegation level inadequate to ensure effective delivery and/or contain misalignments with organisational accountability.	Asset management plan(s) consistently document responsibilities for the delivery of actions but responsibility/authority levels are inappropriate/ inadequate, and/or there are misalignments within the organisation.	Asset management plan(s) consistently document responsibilities for the delivery actions and there is adequate detail to enable delivery of actions. Designated responsibility and authority for achievement of asset plan actions is appropriate.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT CAPABILITY

13(i): Asset Management Capability, Self Assessment Questions

Section	Question No.	Function	Question	Maturity Level Score	Evidence - Summary	Target Score CY+3	Initiatives planned to achieve target score	Why	Who	Record/documented Information	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
13(i): Asset Management Capability, Self Assessment Questions	**7**	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)?(Note this is about resources and enabling support)	2	Chorus has a well-established process that matches resource needs to available resources through the annual budget cycle, with business cases developed to add any additional resources where necessary. Succession planning and talent development programmes have been in place for some time. Our current approach takes into account a number of variables including market conditions, number of suppliers and business criticality, and is reviewed during each procurement with the outcomes documented within board papers.	3	Most of our asset management system is appropriately resourced to deliver the current needs of the business, however, there are examples such as document (e.g. procedures, guidance, strategies) development and management and assurance activities which would benefit from improved resourcing in the longer-term. We also intend to develop an overarching asset management capability skills development strategy to address current competency gaps we know exist in areas such as modelling, cost estimation and IT.	It is essential that the plan(s) are realistic and can be implemented, which requires appropriate resources to be available and enabling mechanisms in place. This question explores how well this is achieved. The plan(s) not only need to consider the resources directly required and timescales, but also the enabling activities, including for example, training requirements, supply chain capability and procurement timescales.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team. Where appropriate the procurement team and service providers working on the organisation's asset-related activities.	The organisation's asset management plan(s). Documented processes and procedures for the delivery of the asset management plan.	The organisation has not considered the arrangements needed for the effective implementation of plan(s).	The organisation recognises the need to ensure appropriate arrangements are in place for implementation of asset management plan(s) and is in the process of determining an appropriate approach for achieving this.	The organisation has arrangements in place for the implementation of asset management plan(s) but the arrangements are not yet adequately efficient and/or effective. The organisation is working to resolve existing weaknesses.	The organisation's arrangements fully cover all the requirements for the efficient and cost effective implementation of asset management plan(s) and realistically address the resources and timescales required, and any changes needed to functional policies, standards, processes and the asset management information system.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**8**	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	3	We have in place a well established Crisis and Event Management Plan and a separate Business Continuity Plan. We adapt our existing plans to accommodate unforeseen events when they occur. Our Business Continuity arrangements must be flexible enough to adapt to any type of incident and provide sufficient support to allow for sound and rapid decision making. Established and tested tactical response plans exist and are applied across our business as required. We hold an annual crisis exercise each year under the guidance of an external reviewer. Business continuity plans exist at the tactical functional level and tend to be focused on systems and processes rather than testing the resilience of physical assets. Our Board and Executive seek assurance of our Crisis and Event Management and Business Continuity arrangements via internal and external audit. Contingency Plans do not exist for predefined events or failures, but several tactical response do exist and are applied on an as needed basis.	3	We continue to consider our contingency planning and crisis and event management planning to be of a high standard. These have been proven to be robust in real life critical events, such as Cyclone Gabrielle and numerous regional states of emergency triggered by severe weather events. Our intention is to maintain this high standard over the planning period and continue to refine our contingency planning where necessary as we develop other areas of our asset management capability.	Widely used AM practice standards require that an organisation has plan(s) to identify and respond to emergency situations. Emergency plan(s) should outline the actions to be taken to respond to specified emergency situations and ensure continuity of critical asset management activities including the communication to, and involvement of, external agencies. This question assesses if, and how well, these plan(s) triggered, implemented and resolved in the event of an incident. The plan(s) should be appropriate to the level of risk as determined by the organisation's risk assessment methodology. It is also a requirement that relevant personnel are competent and trained.	The manager with responsibility for developing emergency plan(s). The organisation's risk assessment team. People with designated duties within the plan(s) and procedure(s) for dealing with incidents and emergency situations.	The organisation's plan(s) and procedure(s) for dealing with emergencies. The organisation's risk assessments and risk registers.	The organisation has not considered the need to establish plan(s) and procedure(s) to identify and respond to incidents and emergency situations.	The organisation has some ad-hoc arrangements to deal with incidents and emergency situations, but these have been developed on a reactive basis in response to specific events that have occurred in the past.	Most credible incidents and emergency situations are identified. Either appropriate plan(s) and procedure(s) are incomplete for critical activities or they are inadequate. Training/ external alignment may be incomplete.	Appropriate emergency plan(s) and procedure(s) are in place to respond to credible incidents and manage continuity of critical asset management activities consistent with policies and asset management objectives. Training and external agency alignment is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**9**	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	3	Our Chief Technology Officer (CTO) continues to have overall responsibility for asset management capability at the executive team level. In addition to our Centre of Excellence, and as we note in our response to Question 5, our Asset Management Leadership Team is made up of senior managers across our business. Asset investment decisions continue to be driven by our business unit plans rather than an overarching asset management plan that is consistently applied across the business but we continue to have clear accountability for the planning and delivery of assets and operational asset performance and the services provided to customers. We have made improvements in formal lines of accountability for the completion and approval of the Portfolio Asset Management Plans and IT Domain Plans. This has lead to improve quality of those plans and the future direction setting of those assets.	3	Our Centre of Excellence and Asset Management Leadership Team continue to guide and inform the development of a longer-term asset management strategy that, amongst other things, will identify and assign specific accountabilities across our senior management for the delivery of asset portfolio outputs. We will continue to ensure future amendments to our company structure, Asset Management Policy, Sub-strategies, Strategic Asset Management Plan, Portfolio Asset Management Plans and IT Domain Plans reflect those responsibilities.	In order to ensure that the organisation's assets and asset systems deliver the requirements of the asset management policy, strategy and objectives responsibilities need to be allocated to appropriate people who have the necessary authority to fulfil their responsibilities.	Top management. People with management responsibility for the delivery of asset management policy, strategy, objectives and plan(s). People working on asset-related activities.	Evidence that managers with responsibility for the delivery of asset management policy, strategy, objectives and plan(s) have been appointed and have assumed their responsibilities. Evidence may include the organisation's documents relating to its asset management system, organisational charts, job descriptions of post-holders, annual targets/objectives and personal development plan(s) of post-holders as appropriate.	Top management has not considered the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management understands the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management has appointed an appropriate people to ensure the assets deliver the requirements of the asset management strategy, objectives and plan(s) but their areas of responsibility are not fully defined and/or they have insufficient delegated authority to fully execute their responsibilities.	The appointed person or persons have full responsibility for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s). They have been given the necessary authority to achieve this.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**10**	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	2	Please note our response to Q7. Our asset management capability Centre of Excellence continues to focus on further developing Chorus' asset management maturity. Our approach is aligned with leading practice and has the greatest probability of enabling improvements to be successfully owned and embedded within Chorus. We continue to have a Senior Manager, Asset Management Capability role that was created to specifically guide our future asset management capability. Executive management is committed to spending the allowance to improve the resourcing of our asset management capability that was approved by the Commerce Commission in its RP2 Final Decision for Chorus. Progress reporting on our asset management capability plans remains integrated into our executive governance forums. Investment planning for assets remains resourced as an established practice, together with operational teams and field service contracting arrangements to ensure Chorus has the resources available to meet the needs of our asset lifecycle activities.	3	Chorus management is on an ongoing journey to define and articulate the value of asset management concepts and an asset management system, including alignment to ISO55001. As we progress on this journey, we have recognised there will continue to be changes in the required competencies and capabilities with the move from build to operate and maintain. This means we will increasingly seek to include asset management skills within our existing employee capability frameworks and processes to complement the existing skilled resources we possess in engineering, IT, project management and finance.	Optimal asset management requires top management to ensure sufficient resources are available. In this context the term 'resources' includes manpower, materials, funding and service provider support.	Top management. The management team that has overall responsibility for asset management. Risk management team. The organisation's managers involved in day-to-day supervision of asset-related activities, such as frontline managers, engineers, foremen and chargehands as appropriate.	Evidence demonstrating that asset management plan(s) and/or the process(es) for asset management plan implementation consider the provision of adequate resources in both the short and long term. Resources include funding, materials, equipment, services provided by third parties and personnel (internal and service providers) with appropriate skills competencies and knowledge.	The organisation's top management has not considered the resources required to deliver asset management.	The organisations top management understands the need for sufficient resources but there are no effective mechanisms in place to ensure this is the case.	A process exists for determining what resources are required for its asset management activities and in most cases these are available but in some instances resources remain insufficient.	An effective process exists for determining the resources needed for asset management and sufficient resources are available. It can be demonstrated that resources are matched to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**11**	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	3	Chorus and its management have significantly improved understanding of asset management and its value in the last few years. As noted in our response to Question. 5, a new Corporate Strategy has been developed and implemented across Chorus. One of the strategic pillars in our Corporate Strategy is to achieve operational excellence, and becoming a mature asset operator is core to achieving this objective. This has already resulted in an improved focus of asset management activities across Chorus. Our senior management team remains fully committed to raising our asset management capability and has communicated this across the business. Regular progress updates on our asset management capability are provided to senior leaders and managers on a regular basis.	3	Chorus' new Corporate Strategy places a large emphasis on the need to effectively manage our assets. This strategy will be pivotal to address current gaps in our asset management system and improve communication channels by implementing our asset management communication plan across the business to improve the awareness of asset management practices.	Widely used AM practice standards require an organisation to communicate the importance of meeting its asset management requirements such that personnel fully understand, take ownership of, and are fully engaged in the delivery of the asset management requirements.	Top management. The management team that has overall responsibility for asset management. People involved in the delivery of the asset management requirements.	Evidence of such activities as road shows, written bulletins, workshops, team talks and management walk-abouts would assist an organisation to demonstrate it is meeting this requirement.	The organisation's top management has not considered the need to communicate the importance of meeting asset management requirements.	The organisations top management understands the need to communicate the importance of meeting its asset management requirements but does not do so.	Top management communicates the importance of meeting its asset management requirements but only to parts of the organisation.	Top management communicates the importance of meeting its asset management requirements to all relevant parts of the organisation.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**12**	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	3	We continue to outsource many business critical functions such as field activities and the day-to-day management of our property portfolio. The control of outsourced activities continues to be managed through a combination of field audits, monitoring performance, and governance meetings. Outsourced activities continue to be managed via category plans and contracts that include risk assessments and roles & responsibilities. Our procurement and engineering teams discuss requirements to optimise category management and decisions with Key Performance Indicators and performance incentives in contracts to drive our desired asset management outcomes.	3	Moving forward we will be seeking to strengthen our assurance processes for all outsourced asset management activities. This will include providing greater clarity in our Portfolio Asset Management Plans and the Strategic Asset Management Plan to document and systematise assurance processes and controls that need to be in place for all outsourced activities to deliver our asset management objectives.	Where an organisation chooses to outsource some of its asset management activities, the organisation must ensure that these outsourced process(es) are under appropriate control to ensure that all the requirements of widely used AM standards are in place, and the asset management policy, strategy objectives and plan(s) are delivered. This includes ensuring capabilities and resources across a time span aligned to life cycle management. The organisation must put arrangements in place to control the outsourced activities, whether it be to external providers or to other in-house departments. This question explores what the organisation does in this regard.	Top management. The management team that has overall responsibility for asset management. The manager(s) responsible for the monitoring and management of the outsourced activities. People involved with the procurement of outsourced activities. The people within the organisations that are performing the outsourced activities. The people impacted by the outsourced activity.	The organisation's arrangements that detail the compliance required of the outsourced activities. For example, this could form part of a contract or service level agreement between the organisation and the suppliers of its outsourced activities. Evidence that the organisation has demonstrated to itself that it has assurance of compliance of outsourced activities.	The organisation has not considered the need to put controls in place.	The organisation controls its outsourced activities on an ad-hoc basis, with little regard for ensuring for the compliant delivery of the organisational strategic plan and/or its asset management policy and strategy.	Controls systematically considered but currently only provide for the compliant delivery of some, but not all, aspects of the organisational strategic plan and/or its asset management policy and strategy. Gaps exist.	Evidence exists to demonstrate that outsourced activities are appropriately controlled to provide for the compliant delivery of the organisational strategic plan, asset management policy and strategy, and that these controls are integrated into the asset management system	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT CAPABILITY

13(i): Asset Management Capability, Self Assessment Questions

Section	Question No.	Function	Question	Maturity Level Score	Evidence - Summary	Target Score CY+3	Initiatives planned to achieve target score	Why	Who	Record/documented Information	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
13(i): Asset Management Capability, Self Assessment Questions	**13**	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?	2	Our Centre of Excellence continues to combine new and reallocated resources to provide specialist resourcing to accelerate progress in building our asset management capability. However, we do not have a specific competence management framework at a corporate or asset management level. Chorus does have a learning management system which is used to track business-wide core training requirements. Service providers are responsible for managing and tracking the competency requirements of field staff and sub-contractors against competency requirements.	3	We intend to pursue a number of important initiatives to further develop our asset management competencies. We will explore initiatives to lift the level of asset management competencies through developing business capability and competency models, training and providing greater leadership on asset management practices. This will be an ongoing focus for us throughout 2026, 2027 & 2028.	There is a need for an organisation to demonstrate that it has considered what resources are required to develop and implement its asset management system. There is also a need for the organisation to demonstrate that it has assessed what development plan(s) are required to provide its human resources with the skills and competencies to develop and implement its asset management systems. The timescales over which the plan(s) are relevant should be commensurate with the planning horizons within the asset management strategy considers e.g. if the asset management strategy considers a 5 year time scale then the human resources development plan(s) should align with this. Resources include both 'in house' and external resources who undertake asset management activities.	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of analysis of future work load plan(s) in terms of human resources. Document(s) containing analysis of the organisation's own direct resources and contractors resource capability over suitable timescales. Evidence, such as minutes of meetings, that suitable management forums are monitoring human resource development plan(s). Training plan(s), personal development plan(s), contract and service level agreements.	The organisation has not recognised the need for assessing human resources requirements to develop and implement its asset management system.	The organisation has recognised the need to assess its human resources requirements and to develop a plan(s). There is limited recognition of the need to align these with the development and implementation of its asset management system.	The organisation has developed a strategic approach to aligning competencies and human resources to the asset management system including the asset management plan but the work is incomplete or has not been consistently implemented.	The organisation can demonstrate that plan(s) are in place and effective in matching competencies and capabilities to the asset management system including the plan for both internal and contracted activities. Plans are reviewed integral to asset management system process(es).	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**14**	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?	2	Please refer to our response to Q13. Position descriptions contain specific technical competence requirements but these are not captured in a consistent way to identify and/or understand any gaps. Third party service providers continue to be responsible for managing and tracking the competency requirements of field staff and contractors against NZQA competency requirements. This is monitored as part of our ongoing assessment of third party service providers.	3	We will continue to actively monitor and manage the contractual obligations of our third party service providers to ensure their staff retain all of the necessary competencies to work on our assets. Please also refer to our response to Q13.	Widely used AM standards require that organisations to undertake a systematic identification of the asset management awareness and competencies required at each level and function within the organisation. Once identified the training required to provide the necessary competencies should be planned for delivery in a timely and systematic way. Any training provided must be recorded and maintained in a suitable format. Where an organisation has contracted service providers in place then it should have a means to demonstrate that this requirement is being met for their employees.	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of an established and applied competency requirements assessment process and plan(s) in place to deliver the required training. Evidence that the training programme is part of a wider, co-ordinated asset management activities training and competency programme. Evidence that training activities are recorded and that records are readily available (for both direct and contracted service provider staff) e.g. via organisation wide information system or local records database.	The organisation does not have any means in place to identify competency requirements.	The organisation has recognised the need to identify competency requirements and then plan, provide and record the training necessary to achieve the competencies.	The organisation is the process of identifying competency requirements aligned to the asset management plan(s) and then plan, provide and record appropriate training. It is incomplete or inconsistently applied.	Competency requirements are in place and aligned with asset management plan(s). Plans are in place and effective in providing the training necessary to achieve the competencies. A structured means of recording the competencies achieved is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**15**	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	2	Please refer to our responses to Questions 13 & 14.	3	Please refer to our response to Questions 13 & 14.	A critical success factor for the effective development and implementation of an asset management system is the competence of persons undertaking these activities. organisations should have effective means in place for ensuring the competence of employees to carry out their designated asset management function(s). Where an organisation has contracted service providers undertaking elements of its asset management system then the organisation shall assure itself that the outsourced service provider also has suitable arrangements in place to manage the competencies of its employees. The organisation should ensure that the individual and corporate competencies it requires are in place and actively monitor, develop and maintain an appropriate balance of these competencies.	Managers, supervisors, persons responsible for developing training programmes. Staff responsible for procurement and service agreements. HR staff and those responsible for recruitment.	Evidence of a competency assessment framework that aligns with established frameworks such as the asset management Competencies Requirements Framework (Version 2.0); National Occupational Standards for Management and Leadership; UK Standard for Professional Engineering Competence, Engineering Council, 2005.	The organization has not recognised the need to assess the competence of person(s) undertaking asset management related activities.	Competency of staff undertaking asset management related activities is not managed or assessed in a structured way, other than formal requirements for legal compliance and safety management.	The organization is in the process of putting in place a means for assessing the competence of person(s) involved in asset management activities including contractors. There are gaps and inconsistencies.	Competency requirements are identified and assessed for all persons carrying out asset management related activities - internal and contracted. Requirements are reviewed and staff reassessed at appropriate intervals aligned to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**16**	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	2	As noted in our response to Q5, we have a new Corporate Strategy requiring Chorus to become a mature asset operator. The new Corporate Strategy has been extensively communicated across the business including the need to focus on asset management. This has resulted in improved communication and consultation on all asset management related activities. We still have in place robust business planning processes and an Asset Management Leadership Team, made up of senior managers from across our business and responsible for communicating these to their respective parts of the organisation. There are also regular meetings with our contracted service providers to monitor their performance and identify any improvements to the management of our assets that they recommend. We have developed, and have implemented, a communication plan to improve awareness and understanding of asset management.	3	We recognise regular and iterative communication of our asset management plans across the business is essential for the continual improvement of our asset management capability. As noted in our response to Q5, we already have in place a number of initiatives and plans to help ensure this happens, and we intend to continue with this approach throughout the reporting period.	Widely used AM practice standards require that pertinent asset management information is effectively communicated to and from employees and other stakeholders including contracted service providers. Pertinent information refers to information required in order to effectively and efficiently comply with and deliver asset management strategy, plan(s) and objectives. This will include for example the communication of the asset management policy, asset performance information, and planning information as appropriate to contractors.	Top management and senior management representative(s), employee's representative(s), employee's trade union representative(s); contracted service provider management and employee representative(s); representative(s) from the organisation's Health, Safety and Environmental team. Key stakeholder representative(s).	Asset management policy statement prominently displayed on notice boards, intranet and internet; use of organisation's website for displaying asset performance data; evidence of formal briefings to employees, stakeholders and contracted service providers; evidence of inclusion of asset management issues in team meetings and contracted service provider contract meetings; newsletters, etc.	The organisation has not recognised the need to formally communicate any asset management information.	There is evidence that the pertinent asset management information to be shared along with those to share it with is being determined.	The organisation has determined pertinent information and relevant parties. Some effective two way communication is in place but as yet not all relevant parties are clear on their roles and responsibilities with respect to asset management information.	Two way communication is in place between all relevant parties, ensuring that information is effectively communicated to match the requirements of asset management strategy, plan(s) and process(es). Pertinent asset information requirements are regularly reviewed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**17**	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	3	Our Asset Management Policy and Strategic Asset Management Plan were reviewed and refreshed in 2025. We have also documented our asset management system and have also reviewed and updated all of our Portfolio Asset Management Plans and IT Domain Plans in 2025. We continue to review all of these documents on a regular basis and at least every two years for the Asset Management Policy & Strategic Asset Management Plan, and at least yearly for the Portfolio Asset Management Plans and the IT Domain Plans). These documents are an important part of our high-level asset management document hierarchy and require updating to formally document and reflect the overall policy intent and strategic purpose of our asset management strategy and enable consistent and continuous improvement. We do not have an overarching quality management system that defines a document hierarchy or what documentation is stored centrally and is easily accessible to all interested parties.	3	We are aware of the need to improve all aspects of documenting our asset management systems. Our intention is to continue prioritising the documentation of our asset management policies, processes and procedures and key asset management frameworks. This will require significant ongoing resources to ensure our documentation is fit for purpose and suitably reflects the increased importance that asset management holds across Chorus.	Widely used AM practice standards require an organisation maintain up to date documentation that ensures that its asset management systems (i.e., the systems the organisation has in place to meet the standards) can be understood, communicated and operated.	The management team that has overall responsibility for asset management. Managers engaged in asset management activities.	The documented information describing the main elements of the asset management system (process(es)) and their interaction.	The organisation has not established documentation that describes the main elements of the asset management system.	The organisation is aware of the need to put documentation in place and is in the process of determining how to document the main elements of its asset management system.	The organisation in the process of documenting its asset management system and has documentation in place that describes some, but not all, of the main elements of its asset management system and their interaction.	The organisation has established documentation that comprehensively describes all the main elements of its asset management system and the interactions between them. The documentation is kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**18**	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	2	Our most recent re-organisation has established a new data insights centre of excellence to help ensure we collect, develop and appropriately prioritise data and information important for the performance of our assets and wider asset management system. We do not currently have an asset information strategy that defines an overarching approach outlining information requirements for the business that supports our current and future asset management requirements. We have in place a IT investment strategy which incorporates an investment theme to capture asset management capability. We currently have no formal governance around asset information, although our Asset Information Framework and Asset Data Roadmap outlines principles to determine asset data requirements and ownership. We have a number of systems to capture and record data relating to assets which are asset category centric, and the physical asset management plans set-out current information gaps and future information needs for each asset fleet. Chorus continues to review and refresh its Enterprise Data Strategy to help establish improved ownership of information.	3	We are aware of the need to develop our asset information strategy to include the full scope of asset information required to manage our various asset portfolios throughout their entire lifecycles and consistently across multiple asset categories. The delivery of our asset data roadmap and our focus to reviewing and refreshing Portfolio Asset Management Plans and IT Domain Plans is starting to help inform us of the future requirements for our asset information management systems.	Effective asset management requires appropriate information to be available. Widely used AM standards therefore require the organisation to identify the asset management information it requires in order to support its asset management system. Some of the information required may be held by suppliers. The maintenance and development of asset management information systems is a poorly understood specialist activity that is akin to IT management but different from IT management. This group of questions provides some indications as to whether the capability is available and applied. Note: To be effective, an asset information management system requires the mobilisation of technology, people and process(es) that create, secure, make available and destroy the information required to support the asset management system.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Operations, maintenance and engineering managers	Details of the process the organisation has employed to determine what its asset information system should contain in order to support its asset management system. Evidence that this has been effectively implemented.	The organisation has not considered what asset management information is required.	The organisation is aware of the need to determine in a structured manner what its asset information system should contain in order to support its asset management system and is in the process of deciding how to do this.	The organisation has developed a structured process to determine what its asset information system should contain in order to support its asset management system and has commenced implementation of the process.	The organisation has determined what its asset information system should contain in order to support its asset management system. The requirements relate to the whole life cycle and cover information originating from both internal and external sources.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**19**	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	1	We do not have a single dedicated asset information system or a governance framework that clearly defines roles and responsibilities in relation to asset information. Chorus and our service providers use a comprehensive suite of applications to capture, store and manage asset information with no common oversight. This can mean there is not consistent alignment and governance processes between our various sources of asset information across our asset categories. Chorus' main source of physical network asset information is a GIS-based system called NetMap, and we use spatial analysis for some decision-making such as fibre route survey, and pole, pit & manhole condition management. Chorus uses SAP to store workorder history and maintenance cost data, however, linking information about specific assets between various systems is often difficult to achieve. Chorus does have an enterprise data warehouse (Snowflake) to bring data together from disparate sources but the capability within asset management teams to effectively use this needs to be developed.	2	We have identified that significant opportunity exists to improve the type and quality of asset data we hold on our systems. There is also a need to ensure this is stored in a consistent way and with appropriate oversight via an Asset Information Framework that clearly documents data quality governance processes and responsibilities. We understand the need to embed asset data and framework trials across our business. We are optimistic that we can make major improvements to our asset data and supporting frameworks, but this will take time and resources given where we are currently positioned.	The response to the questions is progressive. A higher scale cannot be awarded without achieving the requirements of the lower scale. This question explores how the organisation ensures that information management meets widely used AM practice requirements.	The management team that has overall responsibility for asset management. Users of the organisational information systems.	The asset management information system, together with the policies, procedure(s), improvement initiatives and audits regarding information controls.	There are no formal controls in place or controls are extremely limited in scope and/or effectiveness.	The organisation is aware of the need for effective controls and is in the process of developing an appropriate control process(es).	The organisation has developed controls that will ensure the data held is of the requisite quality and accuracy and is consistent and is in the process of implementing them.	The organisation has effective controls in place that ensure the data held is of the requisite quality and accuracy and is consistent. The controls are regularly reviewed and improved where necessary.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT CAPABILITY

13(i): Asset Management Capability, Self Assessment Questions

Section	Question No.	Function	Question	Maturity Level Score	Evidence - Summary	Target Score CY+3	Initiatives planned to achieve target score	Why	Who	Record/documented Information	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
13(i): Asset Management Capability, Self Assessment Questions	**20**	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?	2	Chorus continues to develop its future vision for its IT system architecture to better understand key improvement areas for asset management information systems and how these should be prioritised. This includes considering how information systems should present data, accessibility to asset management data, effectively exploiting data for decision making, capture historical data and what reference data should be collected and stored for each individual asset. We have long established systems of record that capture and record data relating to many of our asset categories. Periodic reviews are undertaken as lifecycle and development investment are made for these IT systems to ensure new data can be incorporated and that systems continue to meet the organisation's needs. We have developed an asset data roadmap that sets out a number of initiatives to address our current information gaps and what future asset data, systems and processes we are likely to require to cover the entire lifecycle of our assets. We have third party service provider contracts in place that are resulting in improved property and power & building services data for our larger sites (i.e. exchanges).	3	We fully appreciate the need to prepare and document a structured approach for our future asset management information needs. We will continue to develop and learn from the implementation of our asset data roadmap both in terms of identifying potential gaps and to prioritising remedies that will further enhance the management of our asset information.	Widely used AM standards need not be prescriptive about the form of the asset management information system, but simply require that the asset management information system is appropriate to the organisations needs, can be effectively used and can supply information which is consistent and of the requisite quality and accuracy.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Users of the organisational information systems.	The documented process the organisation employs to ensure its asset management information system aligns with its asset management requirements. Minutes of information systems review meetings involving users.	The organisation has not considered the need to determine the relevance of its management information system. At present there are major gaps between what the information system provides and the organisations needs.	The organisation understands the need to ensure its asset management information system is relevant to its needs and is determining an appropriate means by which it will achieve this. At present there are significant gaps between what the information system provides and the organisations needs.	The organisation has developed and is implementing a process to ensure its asset management information system is relevant to its needs. Gaps between what the information system provides and the organisations needs have been identified and action is being taken to close them.	The organisation's asset management information system aligns with its asset management requirements. Users can confirm that it is relevant to their needs.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**21**	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?	2	We identify strategic and operational risks through our risk management framework that is regularly reviewed by senior management, and these help inform our investment decisions. Different risk matrices are used for strategic and operational risks and risk training is undertaken for senior managers each year as required. Our Strategic Asset Management Plan describes how risk is applied across our asset management decision-making. Our Portfolio Asset Management Plans and IT Domain Plans assess the relevant risk of asset class strategies, detail mitigation approaches and promote appropriate review cycles. We have also developed an asset management capability risk register to monitor and help mitigate the key risks we face in evolving our asset management maturity. We also have established risk management practices and processes in place for our IT networks and physical network assets.	3	We continue to develop our asset management processes to better articulate how we assess risk across our asset classes, and how this should inform our future decision making. This has been partially addressed through the review and refreshment of our Strategic Asset Management Plan to improve our asset management processes, the review and updating of our Portfolio Asset Management Plans and IT Domain Plans, and the further initiatives we have developed to establish a risk framework across all of our assets. This will mean that a robust and consistent approach to risk will be deployed across our asset categories in future.	Risk management is an important foundation for proactive asset management. Its overall purpose is to understand the cause, effect and likelihood of adverse events occurring, to optimally manage such risks to an acceptable level, and to provide an audit trail for the management of risks. Widely used standards require the organisation to have process(es) and/or procedure(s) in place that set out how the organisation identifies and assesses asset and asset management related risks. The risks have to be considered across all phases of the asset lifecycle.	The top management team in conjunction with the organisation's senior risk management representatives. There may also be input from the organisation's Safety, Health and Environment team. Staff who carry out risk identification and assessment.	The organisation's risk management framework and/or evidence of specific process(es) and/ or procedure(s) that deal with risk control mechanisms. Evidence that the process(es) and/or procedure(s) are implemented across the business and maintained. Evidence of agendas and minutes from risk management meetings. Evidence of feedback in to process(es) and/or procedure(s) as a result of incident investigation(s). Risk registers and assessments.	The organisation has not considered the need to document process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle.	The organisation is aware of the need to document the management of asset related risk across the asset lifecycle. The organisation has plan(s) to formally document all relevant process(es) and procedure(s) or has already commenced this activity.	The organisation is in the process of documenting the identification and assessment of asset related risk across the asset lifecycle but it is incomplete or there are inconsistencies between approaches and a lack of integration.	Identification and assessment of asset related risk across the asset lifecycle is fully documented. The organisation can demonstrate that appropriate documented mechanisms are integrated across life cycle phases and are being consistently applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**22**	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?	2	Our strategic and operational risks are identified and managed through our risk management framework. This risk management framework includes identification of treatments necessary to mitigate identified risks, which is used to inform investment and planning activities. Our Strategic Asset Management Plan describes how risk is considered across our business. Our intention is to incorporate treatments for key asset risks in respective Portfolio Asset Management Plans and IT Domain Plans. There is some risk management training across Chorus, but this tends to be ad-hoc and is not structured in a formal manner. We also have established risk management practices and processes in place for our IT networks and physical network assets.	3	We continue to evolve the asset risk assessment framework and better understand asset failure critical risks. This will help ensure we have a clear and consistent approach for capturing critical risks across each asset category. This will take time and resources, and we have a clear plan in place to ensure this is delivered. As noted in our response to Q21, this will mean that a robust and consistent approached to risk will be deployed across our asset categories in future.	Widely used AM standards require that the output from risk assessments are considered and that adequate resource (including staff) and training is identified to match the requirements. It is a further requirement that the effects of the control measures are considered, as there may be implications in resources and training required to achieve other objectives.	Staff responsible for risk assessment and those responsible for developing and approving resource and training plan(s). There may also be input from the organisation's Safety, Health and Environment team.	The organisations risk management framework. The organisation's resourcing plan(s) and training and competency plan(s). The organisation should be able to demonstrate appropriate linkages between the content of resource plan(s) and training and competency plan(s) to the risk assessments and risk control measures that have been developed.	The organisation has not considered the need to conduct risk assessments.	The organisation is aware of the need to consider the results of risk assessments and effects of risk control measures to provide input into reviews of resources, training and competency needs. Current input is typically ad-hoc and reactive.	The organisation is in the process ensuring that outputs of risk assessment are included in developing requirements for resources and training. The implementation is incomplete and there are gaps and inconsistencies.	Outputs from risk assessments are consistently and systematically used as inputs to develop resources, training and competency requirements. Examples and evidence is available.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**23**	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?	3	We have in place a series of comprehensive operating procedures, practices and training that ensure we are able to meet our statutory, regulatory and legal responsibilities. As our transition to being a regulated business under the building block style of regulation continues, we also have in place sound procedures for the reporting of asset information. These continue to evolve over time as we become more familiar with our new regulatory landscape. Technical standards are stored on our intranet and made available through a service portal to our service providers. We have a governance process in place to ensure the development of technical standards. Compliance with legislative requirements is primarily achieved through membership with Standards NZ and regular engagement with industry bodies.	3	We continue to identify further system improvements that can be made to incorporate procedures into our asset management system to better meet our future legal, regulatory and statutory requirements and ensure the technical standards to which we refer are up to date.	In order for an organisation to comply with its legal, regulatory, statutory and other asset management requirements, the organisation first needs to ensure that it knows what they are. It is necessary to have systematic and auditable mechanisms in place to identify new and changing requirements. Widely used AM standards also require that requirements are incorporated into the asset management system (e.g. procedure(s) and process(es))	Top management. The organisations regulatory team. The organisation's legal team or advisors. The management team with overall responsibility for the asset management system. The organisation's health and safety team or advisors. The organisation's policy making team.	The organisational processes and procedures for ensuring information of this type is identified, made accessible to those requiring the information and is incorporated into asset management strategy and objectives	The organisation has not considered the need to identify its legal, regulatory, statutory and other asset management requirements.	The organisation identifies some its legal, regulatory, statutory and other asset management requirements, but this is done in an ad-hoc manner in the absence of a procedure.	The organisation has procedure(s) to identify its legal, regulatory, statutory and other asset management requirements, but the information is not kept up to date, inadequate or inconsistently managed.	Evidence exists to demonstrate that the organisation's legal, regulatory, statutory and other asset management requirements are identified and kept up to date. Systematic mechanisms for identifying relevant legal and statutory requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**24**	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?	2	Since last year's submission we have invested time and resource into developing our investment models to ensure a consistent approach across Chorus. As we noted in our previous information disclosure submissions, it is important to re-iterate that historically, the need to build the fibre network and extend this to as many end users as possible has driven investment life cycles for existing and new assets that offer the greatest value to customers and our business. This means that some asset lifecycles are relatively short when compared to other utility industries. By way of example, asset investments and renewals are more likely to be driven by the need to maintain a congestion-free network than life cycle costs. While good project management and technical standards are in place, stored and managed on our Sharepoint system, asset life cycle investments are captured as part of business planning processes. We are confident that project costs are well monitored and controlled but improvements continue to be made to our documentation around the processes, models and rules to guide and improve asset lifecycle planning, implementation, performance and disposal.	3	We fully appreciate the need to formalise our approach to asset lifecycle management and standardise this where possible. This will help us to improve the realisation of our assets beyond immediate financial benefits and will include greater emphasis on asset risk, reliability and the prioritisation of future investment decisions and reporting. This will take time and resources but we have plans to achieve this by initially developing our product and asset lifecycle plans through our Portfolio Asset Management Plans and IT Domain Plans.	Life cycle activities are about the implementation of asset management plan(s) i.e. they are the "doing" phase. They need to be done effectively and well in order for asset management to have any practical meaning. As a consequence, widely used standards require organisations to have in place appropriate process(es) and procedure(s) for the implementation of asset management plan(s) and control of lifecycle activities. This question explores those aspects relevant to asset creation.	Asset managers, design staff, construction staff and project managers from other impacted areas of the business, e.g. Procurement	Documented process(es) and procedure(s) which are relevant to demonstrating the effective management and control of life cycle activities during asset creation, acquisition, enhancement including design, modification, procurement, construction and commissioning.	The organisation does not have process(es) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning but currently do not have these in place (note: procedure(s) may exist but they are inconsistent/incomplete).	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning. Gaps and inconsistencies are being addressed.	Effective process(es) and procedure(s) are in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**25**	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and performance?	3	We consider our response to Q24 addresses this question. We also monitor the activities and performance of our third party contracted personnel to ensure the maintenance and inspection of our assets are conducted in accordance with our operational and risk procedures. We include specific contractual provisions with our service providers to ensure expectations are clear to all parties who operate and work on our assets.	3	We consider our response to Q24 addresses this question.	Having documented process(es) which ensure the asset management plan(s) are implemented in accordance with any specified conditions, in a manner consistent with the asset management policy, strategy and objectives and in such a way that cost, risk and asset system performance are appropriately controlled is critical. They are an essential part of turning intention into action.	Asset managers, operations managers, maintenance managers and project managers from other impacted areas of the business	Documented procedure for review. Documented procedure for audit of process delivery. Records of previous audits, improvement actions and documented confirmation that actions have been carried out.	The organisation does not have process(es)/procedure(s) in place to control or manage the implementation of asset management plan(s) during this life cycle phase.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during this life cycle phase but currently do not have these in place and/or there is no mechanism for confirming they are effective and where needed modifying them.	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process for confirming the process(es)/procedure(s) are effective and if necessary carrying out modifications.	The organisation has in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process, which is itself regularly reviewed to ensure it is effective, for confirming the process(es)/ procedure(s) are effective and if necessary carrying out modifications.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**26**	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?	2	Since our previous submission we have approved a new Asset Health and Criticality sub-strategy. This sub-strategy is a living document providing a guide to how Chorus should develop and improve asset health and criticality assessments across all ouf our assets moving forward. We have also created a new Data Product Lead - Asset Performance role to specifically concentrate on improving asset performance data. Although Chorus does not have a formal asset performance management framework, we do have good transparency of the overall performance of our network in terms of meeting demand patterns and network utilisation and service performance standards. Configuration management is partially addressed by using a methods of procedure process. We do not have a consistent methodology for recording the performance for all asset classes, and have started the process of systematically specifying and collecting asset condition data for some of our asset categories (e.g. poles, pits).	3	We are intending to implement our new Asset Health and Criticality sub-strategy to better assess the performance, health and condition of assets. This will also help identify the required information for each portfolio. We appreciate the importance of being able to ascertain the performance and condition of all asset classes, and for the need to ensure that this information should be stored and utilised to drive future network investment decisions. This will require significantly more focus than has previously been the case and will take time and resources to rectify. It is our intention to address these shortcomings in our current approach through a number of initiatives to improve our asset data and asset management processes.	Widely used AM standards require that organisations establish implement and maintain procedure(s) to monitor and measure the performance and/or condition of assets and asset systems. They further set out requirements in some detail for reactive and proactive monitoring, and leading/lagging performance indicators together with the monitoring or results to provide input to corrective actions and continual improvement. There is an expectation that performance and condition monitoring will provide input to improving asset management strategy, objectives and plan(s).	A broad cross-section of the people involved in the organisation's asset-related activities from data input to decision-makers, i.e. an end-to end assessment. This should include contactors and other relevant third parties as appropriate.	Functional policy and/or strategy documents for performance or condition monitoring and measurement. The organisation's performance monitoring frameworks, balanced scorecards etc. Evidence of the reviews of any appropriate performance indicators and the action lists resulting from these reviews. Reports and trend analysis using performance and condition information. Evidence of the use of performance and condition information shaping improvements and supporting asset management strategy, objectives and plan(s).	The organisation has not considered how to monitor the performance and condition of its assets.	The organisation recognises the need for monitoring asset performance but has not developed a coherent approach. Measures are incomplete, predominantly reactive and lagging. There is no linkage to asset management objectives.	The organisation is developing coherent asset performance monitoring linked to asset management objectives. Reactive and proactive measures are in place. Use is being made of leading indicators and analysis. Gaps and inconsistencies remain.	Consistent asset performance monitoring linked to asset management objectives is in place and universally used including reactive and proactive measures. Data quality management and review process are appropriate. Evidence of leading indicators and analysis.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT CAPABILITY

13(i): Asset Management Capability, Self Assessment Questions

Section	Question No.	Function	Question	Maturity Level Score	Evidence - Summary	Target Score CY+3	Initiatives planned to achieve target score	Why	Who	Record/documented Information	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
13(i): Asset Management Capability, Self Assessment Questions	**27**	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?	3	Chorus continues to have well established processes to respond to and manage faults and incidents. Many of our detailed processes are well documented. Faults are managed through system alarms and notifications from the community and Channel Partners (formerly known as Retail Service Providers). Chorus uses a triage process to help prioritise responses with important faults accelerated past the triage process directly to service providers to reduce repair times. We undertake regular site checks to ensure that service providers are compliant with our processes. Lessons learnt practices are identified and actioned to enable identification of ongoing or repeated faults and failures.	3	Although we have established practices and procedures in place to record asset related faults and failures, we understand there is an opportunity to further ensure future defects are based on relative risk. We will look to leverage off our other proposed programmes of work to enhance our current work in this area.	Widely used AM standards require that the organisation establishes implements and maintains process(es) for the handling and investigation of failures incidents and non-conformities for assets and sets down a number of expectations. Specifically this question examines the requirement to define clearly responsibilities and authorities for these activities, and communicate these unambiguously to relevant people including external stakeholders if appropriate.	The organisation's safety and environment management team. The team with overall responsibility for the management of the assets. People who have appointed roles within the asset-related investigation procedure, from those who carry out the investigations to senior management who review the recommendations. Operational controllers responsible for managing the asset base under fault conditions and maintaining services to consumers. Contractors and other third parties as appropriate.	Process(es) and procedure(s) for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances. Documentation of assigned responsibilities and authority to employees. Job Descriptions, Audit reports. Common communication systems i.e. all Job Descriptions on Internet etc.	The organisation has not considered the need to define the appropriate responsibilities and the authorities.	The organisation understands the requirements and is in the process of determining how to define them.	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified responsibilities/authorities.	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the business and kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**28**	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	2	Chorus is starting to realise and benefit from past audits and reviews and has entered a new phase of implementing improvements that have been discussed, scoped and documented over the last couple of years. An example includes an audit of our health and safety practices related to poles. In addition, management reviews continue to be undertaken through various mechanisms including committees and review groups that meet at regular intervals. Audits are conducted in accordance with Chorus' existing governance processes for investment planning and programme delivery.	3	We are committed to improving our asset management audit practices. In future we will continue to learn from audits and apply identified improvements to our asset management practices and systems.	This question seeks to explore what the organisation has done to comply with the standard practice AM audit requirements.	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit teams, together with key staff responsible for asset management. For example, Asset Management Director, Engineering Director. People with responsibility for carrying out risk assessments	The organisation's asset-related audit procedure(s). The organisation's methodology(s) by which it determined the scope and frequency of the audits and the criteria by which it identified the appropriate audit personnel. Audit Schedules, reports etc. Evidence of the procedure(s) by which the audit results are presented, together with any subsequent communications. The risk assessment Schedule or risk registers.	The organisation has not recognised the need to establish procedure(s) for the audit of its asset management system.	The organisation understands the need for audit procedure(s) and is determining the appropriate scope, frequency and methodology(s).	The organisation is establishing its audit procedure(s) but they do not yet cover all the appropriate asset-related activities.	The organisation can demonstrate that its audit procedure(s) cover all the appropriate asset-related activities and the associated reporting of audit results. Audits are to an appropriate level of detail and consistently managed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**29**	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non-conformance?	3	Chorus has developed a Technology and Service Resiliency Sub-Strategy which is intended to provide direction for developing and evolving our Portfolio Asset Management Plans and IT Domain Plans, our investment planning and decision making, and our design standards. Our current approach to corrective and preventative action remains as follows: Physical and Layer 1 assets: The delivery of all maintenance and inspection activities are undertaken by service partners in accordance with the requirements set out in their contracts. Defects are identified and prioritised for rectification through our iTools system in accordance with documented guidelines. Our service partners are responsible for scheduling preventative maintenance and defect rectification. Layer 2 assets: Defects are prioritised based upon the number of customers affected. Faults and defects are reported in different categories to prevent confusion with customer complaints. We also have extensive testing processes in place to validate interoperability, service continuity and identify any performance or non-conformance related issues and take corrective action.	3	We consider the potential exists to further integrate our Technology and Service Resiliency Sub-Strategy across the business and to develop a standardised methodology and approach for the handling of defects that are prioritised based on relative risk.	Having investigated asset related failures, incidents and non-conformances, and taken action to mitigate their consequences, an organisation is required to implement preventative and corrective actions to address root causes. Incident and failure investigations are only useful if appropriate actions are taken as a result to assess changes to a businesses risk profile and ensure that appropriate arrangements are in place should a recurrence of the incident happen. Widely used AM standards also require that necessary changes arising from preventive or corrective action are made to the asset management system.	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit and incident investigation teams. Staff responsible for planning and managing corrective and preventive actions.	Analysis records, meeting notes and minutes, modification records. Asset management plan(s), investigation reports, audit reports, improvement programmes and projects. Recorded changes to asset management procedure(s) and process(es). Condition and performance reviews. Maintenance reviews	The organisation does not recognise the need to have systematic approaches to instigating corrective or preventive actions.	The organisation recognises the need to have systematic approaches to instigating corrective or preventive actions. There is ad-hoc implementation for corrective actions to address failures of assets but not the asset management system.	The need is recognized for systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit. It is only partially or inconsistently in place.	Mechanisms are consistently in place and effective for the systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**30**	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	3	In 2025 an independent review of our asset management practices was completed. This review concluded the asset management approach adopted by Chorus is aligned with leading practice and has the greatest probability of enabling improvements to be successfully owned and embedded across the business. The review also confirmed Chorus has entered a new phase of realising benefits from improved implemenetation of asset management practices and acknowledged many improvements discussed, scoped and documented over the last couple of years are now being implemented with benefits being pgressively realised. Importantly, the review also noted our rate of progress is on par with other comparable businesses and is reflective of the competing priorities and competitive environment in which Chorus operates. This demonstrates improvement and review is incorporated in our operational practices and existing planning processes. Our asset management Centre of Excellence at Chorus focuses on improving the asset management practices across the organisation. Our determination to continually evolve our Portfolio Asset Management Plans and IT Domain Plans is already making a significant contribution to driving continual improvement across all our asset categories and the teams responsible for the management of our assets.	3	We are committed to improving our asset management practices. In future we will continue to commission further independent reviews at least every three years to track the progress we are making, and to also ensure we remain aware of best practices in the asset management arena. The suite of initiatives we have developed, and are currently implementing, demonstrates our commitment towards the continual improvement of our asset management systems and practices across the whole lifecycle of our assets. We are very much at the early stages of our asset management journey and are dedicated to making the necessary continual improvements to our asset management capability that will enable us to become more prudent and efficient asset managers.	Widely used AM standards have requirements to establish, implement and maintain process(es)/procedure(s) for identifying, assessing, prioritising and implementing actions to achieve continual improvement. Specifically there is a requirement to demonstrate continual improvement in optimisation of cost risk and performance/condition of assets across the life cycle. This question explores an organisation's capabilities in this area—looking for systematic improvement mechanisms rather that reviews and audit (which are separately examined).	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. Managers responsible for policy development and implementation.	Records showing systematic exploration of improvement. Evidence of new techniques being explored and implemented. Changes in procedure(s) and process(es) reflecting improved use of optimisation tools/techniques and available information. Evidence of working parties and research.	The organisation does not consider continual improvement of these factors to be a requirement, or has not considered the issue.	A Continual Improvement ethos is recognised as beneficial, however it has just been started, and or covers partially the asset drivers.	Continuous improvement process(es) are set out and include consideration of cost risk, performance and condition for assets managed across the whole life cycle but it is not yet being systematically applied.	There is evidence to show that continuous improvement process(es) which include consideration of cost risk, performance and condition for assets managed across the whole life cycle are being systematically applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
13(i): Asset Management Capability, Self Assessment Questions	**31**	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	3	Chorus continues to engage and learn from leading asset management practitioners and have our ideas for future initiatives challenged and reviewed in a constructive way. As noted in our response to Q30, the completion of an independent review in 2025 demonstrates this commitment. We consider ourselves to be at the leading edge of assessing and deploying new technology in the telecommunications sector and have in place an up-to-date Corporate Strategy and Technology Strategy to ensure we leverage opportunities for the benefit of our stakeholders. This has been extended to capture development on asset management practices to bring in learnings, knowledge and tools from the broader asset management industry via our asset management Centre of Excellence. We also engage with other asset intensive sectors to share learnings and approaches to promote learning and development for our own practices. Some of our staff are also members of the Institute of Asset Management, which enables us to leverage best practice asset management knowledge from other industries and sectors.	3	We consider our response to Q30 addresses this question. We are also finding the process of working under a regulatory landscape to be very helpful and informative in informing our future asset management decisions, and how we can continually improve in this area by learning how other organisations undertake their asset management practices.	One important aspect of continual improvement is where an organisation looks beyond its existing boundaries and knowledge base to look at what 'new things are on the market'. These new things can include equipment, process(es), tools, etc. An organisation which does this will be able to demonstrate that it continually seeks to expand its knowledge of all things affecting its asset management approach and capabilities. The organisation will be able to demonstrate that it identifies any such opportunities to improve, evaluates them for suitability to its own organisation and implements them as appropriate. This question explores an organisation's approach to this activity.	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. People who monitor the various items that require monitoring for 'change'. People that implement changes to the organisation's policy, strategy, etc. People within an organisation with responsibility for investigating, evaluating, recommending and implementing new tools and techniques, etc.	Research and development projects and records, benchmarking and participation knowledge exchange professional forums. Evidence of correspondence relating to knowledge acquisition. Examples of change implementation and evaluation of new tools, and techniques linked to asset management strategy and objectives.	The organisation makes no attempt to seek knowledge about new asset management related technology or practices.	The organisation is inward looking, however it recognises that asset management is not sector specific and other sectors have developed good practice and new ideas that could apply. Ad-hoc approach.	The organisation has initiated asset management communication within sector to share and, or identify 'new' to sector asset management practices and seeks to evaluate them.	The organisation actively engages internally and externally with other asset management practitioners, professional bodies and relevant conferences. Actively investigates and evaluates new practices and evolves its asset management activities using appropriate developments.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT CAPABILITY

13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models

Section	Question No.	Function	Standard Ref. (For guidance only)	Scope/purpose of description	Evidence - Summary	User Guidance	Description of Practices
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**32**	Describe how the business plans to systematise processes for collecting and collating network asset data, including data supplied by contractors and other third parties (note - target score and initiatives must be reported under 25 above).	ISO 55002, 7.5	Describe whether asset condition information is being captured in its systems in a consistent way so that when the data is extracted, it is meaningful and reliable. Describe what it has put in place by way of processes to achieve this, including how the business intends to ensure consistent and systematic data collection from third party providers who may be engaged in maintenance activities.	Asset Information Framework, Strategic Asset Management Plan, Portfolio Asset Management Plans, IT Domain Plans, Asset Management Capability Development Roadmaps, Optical Network Terminal study (condition assessment and influence of future lifecycle investments), poles testing programme, pits and covers inspection programme, field services agreements and building seismic rating assessments.	N/A	We have a high volume of diverse assets in terms of age from newly-built fibre coverage area assets, to legacy NZ Post assets, and characteristics from short-lived electronics housed in controlled environments to long-lived physical assets distributed throughout New Zealand. Asset data is stored on various systems with no consistent oversight or governance. This is because asset portfolios are in differing stages with some more advanced than others. This can mean there is not always alignment between our various sources of asset information and with varying degrees of accuracy. We inherited management systems and limited asset data from Telecom. Since our demerger in 2011 we have established independent management systems and separated our core IT systems. Our corporate focus has been on deploying and connecting fibre coverage area networks. Data related to the fibre coverage area network build is well captured and early in the asset lifecycle. Data relating to other assets is less consistent. Several documents & procedures cover our asset information management and processes. We do still have multiple repositories for storing a variety of documents and data, and are actively looking to streamline this where possible. Our Asset Information Framework focuses on the management of asset data including how we determine what data to acquire, how we manage the data and its quality, and how it is made available to be used over its lifespan. This framework encompasses all types of asset data – for example, asset location and model, manufacturer guidelines, actions taken on assets, condition, performance, cost and value. By the end of RP1 we began to systematically integrate asset data requirements into relevant asset management documentation, and scoped enabling technology improvements ready for delivery. During the past year we have updated our Portfolio Asset Management Plans and IT Domain Plans to ensure asset condition information and asset data requirements for each portfolio and domain are identified in a consistent way and with areas for future development included within these plans. We have also established a new Data Product Lead - Asset Performance role to specifically focus on helping teams across Chorus to turn asset data into powerful, actionable insights that are embraced across the business. This new role works alongside delivery squads and influences strategic planning.
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**33**	Describe how the business plans to improve knowledge of network asset condition so that assets are replaced in a timely manner (note - target score and initiatives must be reported under 25 above).	ISO 55000, 6.2	Asset replacement decision making should be a key asset management objective and it should be informed by asset condition data to ensure assets are not replaced to late or too early. Asset condition based decision making also supports expenditure forecasts and reliable asset management plans	Asset Information Framework, Portfolio Asset Management Plans,IT Domain Plans, investment models, scheduled maintenance and inspection programmes, Asset Management Capability Development Roadmaps, Optical Network Terminal study (condition assessment and influence of future lifecycle investments), Risk Management Framework, Technology Service & Resiliency sub-strategy, and Asset Health & Criticality sub-strategy.	N/A	Chorus has in place formal inspection and testing programmes and procedures to identify and assess the condition of physical assets such as poles, pits, manholes, ducts and buildings. Understanding asset condition is not as important for some of our Layer 1 and Layer 2 assets because this does not always inform lifecycle investment activities and is not often a driver for deciding asset replacements (for example, where technical obsolescence is more of a driver for replacement even where an asset is in good condition). As part of Chorus' annual budget process, rolling business plans are approved and reviewed annually to define deliverable projects for a given year. This includes all maintenance and defect investments, bulk programs and named projects. Chorus does have governance arrangements in place for our annual works plan, with quarterly meetings to approve any changes. Chorus undertakes enterprise increment planning on a quarterly basis to prioritise investment activity. Chorus' annual work plan is developed through the annual business planning process. We have identified that significant opportunity exists to improve the type and quality of asset data we hold on our systems. As noted in our response to Q32, we have undertaken significant work to ensure this is stored in a consistent way and with appropriate oversight by creating a new Data Product Lead - Asset Performance role via an asset information strategy that clearly documents data quality governance processes and responsibilities. Our suite of asset development roadmaps includes a number of initiatives to improve our asset information framework, undertake asset data and framework trials, and embed these frameworks across our business to better inform future decision-making. Since our previous submission we have developed an Asset Health & Criticality sub-strategy that provides guidance on the future direction on how we intend to better identify asset health and criticality drivers for investment decision making. We have also deployed significant resources in developing robust investment models for each of our asset classes to ensure we can demonstrate prudent and efficient investment decision making across all our assets. We remain optimistic that we can make major improvements with respect to our asset data and supporting frameworks but this will take time given where we are currently positioned.
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**34**	Describe how the business plans to, where appropriate, develop and improve asset health models so that they are informed by network asset condition data. (note - target score and initiatives must be reported under 25 above)	ISO 55002, 6.2	Asset health models are key to ensuring that asset replacements can be made in a timely manner and that expenditure forecasts are more robust. In some cases age-based volumetric models, informed by asset outage rates may be more appropriate but where asset health models can be reasonably developed, they should be.	Asset Information Framework, Portfolio Asset Management Plans, IT Domain Plans, pole audit programme, pits and manholes inspection programme, Strategic Asset Management Plan, Optical Network Terminal Study (condition assessment and influence of future lifecycle investments), historic information on core fibre condition, Asset Health and Criticality sub-strategy, and new contract to capture condition based assessment of our property portfolio.	N/A	Investment in our assets has historically been driven by fast evolving products, extending the reach of fibre networks to new customers, and to ensure network asset lifecycle is maintained for service continuity for customers. To date this has driven investment life cycles for existing and new assets that offer the greatest value to customers and our business. This means that some asset lifecycles are relatively short when compared to other utility industries, and have different asset health characteristics that have largely been untested given the relatively short periods of time these assets have been installed. While good project management and technical standards are in place, stored and managed on our Sharepoint document management system, formal asset life cycle investment plans based on asset health do not yet exist consistently across all asset categories. However, we have recently updated our Strategic Asset Management Plan to explicitly address this issue by requiring an Asset Health & Criticality sub-strategy (based on improved asset data and service histories for each asset category) should be used moving forward to inform future asset investment decisions. Our renewal work tends to be reactive based on condition assessments or known issues, but is generally effective. Failure modes are anecdotally linked to investment actions and maintenance plans, including condition and health monitoring requirements.

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13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**35**	Describe how the business plans to ensure that there is a clear line-of-sight from asset condition data through to the expenditure forecasts and financial reporting. (note - target score and initiatives must be reported under 25 above).	ISO 55002, 9.1	Systematised asset management systems should ensure that there is consistency and traceability of technical asset information and condition data, through to the financial systems. This will support robust expenditure forecasting and decision making. This is consistent with ISO 55002 section 9.1	Asset Information Framework, 10 year plan investment models, Strategic Asset Management Plan, regulatory proposal and reporting process, investment tactics, Nokia technical partnership agreement, field services contracts, equipment schedules and portfolio investment models.	N/A	We remain confident that project costs are well monitored and controlled. Since our previous submission we have deployed significant resources into developing investment models across alll our portfolios to ensure we can demonstrate prudent and efficient investment decision making. As we transition to our new regulatory environment, continual improvements need to be made to our documentation around the processes, models and rules to guide and improve asset lifecycle planning, implementation, performance and disposal. Investment is currently driven through a combination of demand, base step and trend based on historical expenditure and known lifecycles of our assets. Further improvements in the alignment between our fixed asset register and other asset registers will help to improve capture and review of maintenance activities at a sufficiently granular level to enhance decision-making. We currently base asset valuations on our fixed asset register, which is not always aligned with non-financial asset registers. In future we also intend to undertake regular reviews of our cost estimation processes and linkages to our financial reporting for each asset category.
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**36**	Describe how it plans to ensure it has an audited and regularly-maintained platform for sharing network asset data with internal and external stakeholders	ISO 55002, 2.5 and 8.3.2 (e)	Ensuring that asset and network data is verifiably accurate and enabling platforms for accessing that data made available to internal staff and third party providers will improve asset management outcomes.	Asset Information Framework, IT Investment Strategy, Strategic Asset Management Plan, regulatory proposal process, Annual Report, investor presentations, and project implementation reviews.	N/A	We have in place an IT Investment Strategy which incorporates an investment theme to capture asset management capability. We also have an Asset Information Framework. These, combined with various workbooks, are used to compile asset planning and investments that are individually managed, and further development will bring these under a coordinated governance structure for asset information, including formal strategies and/or roles and responsibilities for asset information ownership. We are aware of the need to develop an asset information strategy to include the full scope of asset information required to manage our various asset portfolios throughout their entire lifecycles.
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**37**	Describe how the business plans to test its asset and network performance, evaluate whether it is achieving its asset management policies and objectives, and identify ways to improve the performance of its network.	ISO 55000, 9.1	The asset management system should use monitored and measured data to obtain information regarding asset and network performance. This should be used to evaluate whether the asset management policies and objectives are being met, and identify corrective actions and areas for improvement.	Asset Information Framework, IT Investment Strategy, product development plans, Technology Strategy, investment tactics, service KPIs, fault monitoring rates, quarterly business reviews, Audit and Risk Management Committee, Risk Management Framework, Risk Register, service and network testing, monitoring and reporting on regulated service performance obligations.	N/A	We currently have good transparency of the overall performance of our network in terms of meeting demand patterns, network utilisation, network availability, and network performance. Configuration management is partially addressed by using a methods of procedure process. Initial configurations are captured in a central library of design that are also used as the basis for continual improvement of future designs. However, this process is largely applied to IT projects and Network Electronics that are subject to frequent lifecycle re-investment, and a similar approach for our physical assets needs to be developed and applied consistently across our business. We do not have a consistent methodology for recording the performance of individual asset classes, but Chorus has in place formal inspection and testing programmes and procedures to identify and assess the condition of physical assets such as poles, pits, manholes, ducts and buildings. Understanding asset condition is not as important in assessing the performance of some of our Layer 1 and Layer 2 assets because this does not always inform lifecycle investment activities and is not often a driver for deciding asset replacements (for example, where technical obsolescence is more of a driver for replacement even where an asset is in good condition).
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**38**	Describe how the business intends to develop its asset criticality understanding, and how this informs its asset replacement and renewal strategies.	ISO 55002, 6.2.2.3 and 6.2.2.4	Understanding asset criticality and the impact that asset has on supply reliability if it fails is a key input into intervention prioritisation.	Asset Information Framework, Strategic Asset Management Plan, regulatory proposal process, Risk Management Framework, Risk Register, Technology & Service Resilience Sub-Strategy and Asset Health & Criticality Sub-Strategy.	N/A	Our network architecture considers scale and impacts on our stakeholders. We also operate two networks that have differing investment needs to deliver services to customers. The approach to identify critical infrastructure assets is documented in our Strategic Asset Management Plan. Each Portfolio Asset Management Plan and IT Domain Plan identifies critical assets within each portfolio and assigns criticality ratings to these assets in accordance with our Asset Health & Criticality Sub-Strategy and our Strategic Asset Management Plan. Our focus moving forward is to better align the objectives of our Strategic Asset Management Plan, Asset Health & Criticality Sub-Strategy, Portfolio Asset Management Plans and IT Domain Plans to improve both the identification of our critical assets and consistency in our decision making and to mitigate any gaps, duplication and missed opportunities. We plan to do this by applying the value framework that is now embedded within our updated Strategic Asset Management Plan, and reviewing and updating our core Portfolio Asset Management Plans and IT Domain Plans in co-ordination with key internal stakeholders to ensure these become comprehensive asset management plans. We intend in the longer-term to develop lifecycle plans based on criticality for major asset categories when updating our Portfolio Asset Management Plans and ensure any updates continue to be reflected in our financial reporting. This approach will enable us to consider the specific drivers that influence fibre asset lives, as these can often vary significantly across individual asset portfolios. We expect improvements to be made across some but not all asset categories in the near to medium-term.

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13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**40**	Describe how the business is developing practices to identify and mitigate safety risks, including the use of a framework such as ALARP to prioritise identified safety risks and to justify investments to mitigate those risks.	ISO 55002, 6.2.2.3 and 6.2.2.4 and clause 22 of the Health and Safety at Work Act 2015	Risk calculations related to safety risk should be sufficiently explicit for decision makers to understand relative asset and network related safety risks, risk prioritisation, and the economic decision making surrounding mitigations if these are to provide risk controls above levels required by network design standards and statutory requirements.	Risk Management Framework, Business Continuity Plans, Health & Safety Policy, Hazard Control Plans and Sustainability Risk Register, draft Asset Health & Criticality Framework, Technology & Service Resiliency Sub-Strategy, Enterprise Business Reliance Critical Risk Asset Failure Review.	N/A	We will be undertaking further work to evolve the asset risk assessment framework and better understand asset failure critical risks. This will be undertaken as part of an Enterprise Business Reliance Critical Risk Asset Failure Review and will help ensure we have a clear and consistent approach for capturing critical risks. We outsource many business critical functions such as field activities and the day-to-day management of our property portfolio. The control of outsourced activities is managed through a combination of service level agreements, field audits, monitoring performance and governance meetings. Outsourced activities are managed via category plans and contracts that include risk assessments and roles and responsibilities. Our procurement and engineering teams discuss requirements to optimise category management and decisions with key performance indicators and performance incentives in contracts to drive our desired asset management outcomes. The delivery of all maintenance and inspection activities are undertaken by service providers in accordance with the requirements set out in their contracts. Our service providers are responsible for scheduling preventative maintenance and defect rectification. We undertake regular site checks to ensure that service providers are compliant with our processes including the safety and wellbeing of all operatives that work either directly or indirectly for Chorus.
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**41**	Describe how the business plans to routinely audit, update, and manage its cost estimation models.		Project and programme costs estimation is a key component of robust asset and project investment decision making.	Quarterly business reporting, market testing of field services contracts, benchmarking clauses in contracts, documenting the current state and gap analysis of our cost estimation processes, developing target state for our cost estimation practices, regulatory proposal process, and internal/external audits.	N/A	Management reviews of our investment models are undertaken through various mechanisms, including various committees / review groups. These review groups and committees meet at regular intervals (i.e. daily, weekly, monthly, quarterly) to review both asset and cost of delivery performance, and include a mixture of service provider and Chorus resources. Service contracts include activity costs which are used for estimation for our network assets. These costs are reviewed as part of contract review cycles. The executive team member responsible for our CTO function has accountability for the review of all our asset management systems.
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**42**	Describe how the business plans use actual costs of completed capital expenditure and operating expenditure projects and programmes, to improve future cost estimates.		Using actual project and programme costs to review estimates will help ensure that future forecasts are likely to be more accurate and drive efficiencies.	Asset Development Roadmaps, Investment Tactics, regulatory proposal process, monthly monitoring of expenditure, quarterly business reviews, use of iTools, use of SAP, multiple technical standards & procedures, portfolio investment models and Cost Estimation Framework.	N/A	Unit rates and volumes are used for forecasting within our business planning process and we have a set of agreed rates with service companies. These are priced independently for larger projects, and we use these rates to develop budgets and project estimates. Moving forward, we intend to build a unit cost framework that captures a consistent unit costing model across our business. This will ensure a consistent approach to developing unit costs, including both historical analysis, forecasting and reconciliation. Since our previous submission we have deployed significant resource to develop investment models for each asset class to ensure we can demonstrate prudent and efficent expenditure. These models will continue to be developed over time and link back to individual asset management plans to ensure consistency in approach and prioritisation of exepnditure.
13(ii): Asset Management capability, Description of Practices for Collecting and Managing Network Asset Data, Making Risk-Based Decisions and Managing Cost Estimation Models	**43**	Describe how the business plans to ensure capital expenditure and operating expenditure projects and programmes are efficiently delivered and implemented, and meet applicable industry standards.			Strategic Asset Management Plan, regulatory proposal & reporting process, use of iTools, use of SAP, multiple technical standards & procedures, capital project governance & reviews.	N/A	Our Network Operations function is responsible for building and operating our network. We also have a central programme office within our Chief Technology Office function and portfolio teams that are responsible for overseeing the delivery of our investment programme. We use SAP and/or iTools extensively across our business to assist in the management of this across various planning horizons. We have established capital project governance and review to ensure projects and programs deliver to scope, quality, time and budget expectations. This applies to network build and expansion in response to customer demand and meeting our fibre build objective, lifecycle investments in network and IT assets, and service and product development and enhancements. Investment Tactics have been documented for asset classes. These include rules that explain how work is generated (e.g. congestion free network , equipment recovery, use of engineering standards). Regarding network expansion, we have a well-established process to identify opportunities, engage with developers and develop pricing. Investments are identified based on failure history and known issues.