

IAS 19 REPORTING FOR

TRADING CORPORATION OF PAKISTAN (PRIVATE) LIMITED

EMPLOYEES' LEAVE ENCASHMENT SCHEME

AS AT 30.06.2024

Date: September 3, 2024

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Main Report

Section 1: Introduction

1.1. Purpose of the Report

Nauman Associates has been engaged by the Company as consulting actuaries in order to assist the Company in preparing the financial statements for the financial year 2024. The report shall focus on the calculation of accounting entries related to **Trading Corporation of Pakistan (Private)** Limited Employees' Leave Encashment Scheme ("the Leave Encashment Scheme") required under IAS 19. The company remains ultimately responsible for the plan's accounting policy, methods and assumptions.

This Report and the disclosures provided therein are prepared for the use of the senior management, accounts department and auditors of the Company / Fund (if any), in respect of reflecting relevant liabilities in the financial statements.

This report is confidential. It should not be used for any other purpose and/or provided in whole or in part to any other party other than those mentioned above, without our prior written consent. In the absence of consent prior to distribution to a third party, we do not accept responsibility for such parties placing reliance on this report or any advice related to this report.

This report should be read in totality including any appendices. Individual sections, taken without context from the entire report may be misleading.

1.2. Date of Actuarial Valuation

The actuarial valuation was conducted as at June 30, 2024.

1.3. Compliance with Actuarial Standards

The signing actuary, Nauman A Cheema is a Fellow of the Society of Actuaries, USA and this report complies with all applicable standards from the Society of Actuaries, USA. This report has been made in compliance with the Pakistan Society of Actuaries Guidance Note 6. The valuation also uses assumptions set according to the Pakistan Society of Actuaries Guidance Notes 3 and 4 for Post-Retirement Employee Benefits Schemes.

1.4. Responsibility and Communication:

For all communication relating to this report please contact Omer Shareef who was the primary person involved in this project or Bilal Shahzad who peer – reviewed the work.

Mr. Nauman A. Cheema has peer-reviewed the exercise and is responsible for this report.



Section 2: Information Received

2.1. Benefit Structure

Details of benefit rules under the Leave Encashment Scheme are provided in Appendix I. To our knowledge, there have been no changes in the rules during the current financial year. Nauman Associates has used benefit rules shared by the company and does not bear responsibility for any differences in figures caused by errors or omissions on the part of the company.

2.2. Data Used for Valuation

The data used for the accuarial valuation of the Leave Encashment Scheme was supplied by the Company. This report uses such data without detailed validation checks and relies on the source data presented by the company after performing a series of completeness, reasonability and consistency checks.

A summary of the data as at the valuation date is as follows:

I. Employee Data

We have received the following key information as at the valuation date:

- 1. Dates of Birth for all employees
- 2. Dates of Appointment for all employees
- 3. Eligible Salary for all employees

II. Key Statistics of Membership Data of the Leave Encashment Scheme as at 30.06.2024:

Key Statistics	Current Valuation
Total employees	379
Total eligible salary	52,743,679
Average age	45.2
Average service	13.3
Average entry age	31.9



2.3. Checks performed on Data

We have performed the following 3 types of checks:

- Completeness Checks:

We have assumed the member information provided by the company includes all the members of the scheme. Hence we have not performed any checks in this regard.

Completeness check has been performed to check that there are no missing fields in the records of members of the scheme. For member information this includes checking that there are no missing Dates of Birth/Appointment and eligible salary for the employees provided.

— Reasonableness Checks:

This involves checking that all values fall within reasonable bounds. This includes checking that all employees are younger than retirement age and all employees are older than 18 years of age.

- Consistency Checks:

This involves reconciling all the data with the data provided last year and making sure that the age, service and pay for all employees has increased in a reasonable manner.

Trading Corporation of Pakistan (Private) Limited Employees' Leave Encashment Scheme Section 2: Information Received

2.4. Final Comment on Data

After completing the checks performed and reconciling any differences we are of the opinion that the data is sufficient to perform the exercise and does not have any material deficiencies.

However, we have not conducted the audit of the data.

2.5. Other Information

We have received the following information pertaining to the Scheme for the year:

- 1. Benefit payments made during the year
- 2. Benefit payables to ex-employees as at the valuation date

Particulars	Amount in
Payments to employees retired/resigned during the year	76,557,359
Payables to ex-employees	- apti wayoo aarandaa gaadaanaa

We have not conducted any checking on the information provided and have assumed it to be complete and accurate.



Section 3: Assumptions

3.1. Actuarial Method Used

Projected Unit Credit (PUC) Actuarial Cost Method was used for calculating the accounting entries in this report. This method is mandated under IAS 19.

3.2. Assumptions

The principal and demographic assumptions used in the actuarial valuation are as per Pakistan Society of Actuaries Guidance Note 3. The company retains the ultimate responsibility for applicability of assumptions used in the report as mandated by IAS 19. In our opinion, the actuarial assumptions in this report are unbiased and mutually compatible.

I. Demographic Assumptions

- Mortality:

Mortality rates are based on State Life Corporation (SLIC) 2001 – 2005 ultimate mortality rates with 1 year setback as per recommendation of Pakistan Society of Actuaries ("PSOA").

Mortality rates are given in Appendix II.

- Withdrawal:

Age based withdrawal rates are used and are given in Appendix II. Withdrawals are assumed to occur at the middle of each year.

II. Financial Assumptions

Discount Rate

The duration of the liabilities is 11 Years. Based on the weighted average duration of this plan and guidance from Pakistan Society of Actuaries ("PSOA"), the discount rate used for the calculations is 14.0% per annum.

Discount rate is determined by reference to market yields (at the balance sheet date) on government bonds, since the long term private sector bond market is not deep enough in Pakistan. The term of the assumed yield of the government bonds is consistent with the estimated term of the post-employment benefit obligations. This is in compliance with Pakistan Society of Actuaries Guidance Note 4 and the subsequent Note on Discount Rate Assumptions issued by the Pakistan Society of Actuaries.

Trading Corporation of Pakistan (Private) Limited Employees' Leave Encashment Scheme Section 3: Assumptions

Rate of Increase in Eligible Salary

Rate of increase in eligible salary reflects the regular/special increments and any promotional increase. It has been assumed that the Eligible Salary will increase at a rate of 14.00% in next one year and 14.00% per annum in future.

It may be stated that the assumption regarding the discount rate and the inflation rate are intimately connected. During periods of inflation, both tend to rise in conformity with each other. From an actuarial costing point of view, it is the difference between these two rates (i.e. discount rate and inflation rate) that matters, and not their individual values in isolation. Thus, a difference of Nil between the discount rate (i.e. 14.0%) and the rate of increase in Eligible Salary (i.e. 14.00%) has been considered appropriate. This Nil difference is within the locally and internationally recognised norms. This difference has been incorporated based on the company's historic salary increases and guidelines from the Pakistan Society of Actuaries Guidance Note 3.

3.3. Change in Assumptions

The discount rate used in the last actuarial valuation as on 30.06.2023 was 15.75%. However, in the current investment environment, where there is a downward trend in the interest rate structure, the discount rate has been decreased to 14.0%, in line with the specifications of the IAS-19.

Correspondingly, due to decrease in inflationary expectations, the rate of increase in eligible salary has been decreased to 14.00% from 15.75%.

3.4. Sensitivity of Assumptions

Sensitivity analysis was carried out on significant actuarial assumptions, such as discount rate and salary increase rate. Impact of changing these assumptions are given in section 5 of the report.

Trading Corporation of Pakistan (Private) Limited Employees' Leave Encashment Scheme Section 4: IAS 19 Disclosures

Section 4: IAS 19 Disclosures

4.1. Accounting Entries for FY 2024

A	Statement of Financial Position	Amount in Jun 30, 2024
· 1	Present value of defined benefit obligation	153,271,620
2	plus payables	<u> </u>
3	Balance sheet liability/(asset)	153,271,620
В	Changes in Present Value of Defined Benefit Obligations	Jun 30, 2024
1	Present value of defined benefit obligation	132,621,801
2	Current service cost	76,069,601
3	Past service cost (credit)	· .
4	Interest cost on defined benefit obligation	14,859,042
5	Benefits due but not paid (payables)	-
6	Benefits paid \ Adjustments	(76,557,359)
7	Gains and losses arising on plan settlements	
	Remeasurements:	
8	Actuarial (gains)/losses from changes in demographic assumptions	-
9	Actuarial (gains)/losses from changes in financial assumptions	-
10	Experience adjustments	6,278,535
	Present value of defined benefit obligation	153,271,620
С	Expenses to be Charged to P&L	Jun 30, 2024
1	Current service cost	76,069,601
2	Past service cost (credit)	-
3	Gains and losses arising on PVDBO	6,278,535
4	Interest cost on defined benefit obligation	14,859,042
5	Expense chargeable to P&L	97,207,178



Trading Corporation of Pakistan (Private) Limited Employees' Leave Encashment Scheme Section 4: IAS 19 Disclosures

		Amount in
D	Changes in Net Liability	Jun 30, 2024
1	Balance Sheet Liability/(Asset)	 132,621,801
2	Expense chargeable to P&L	97,207,178
3	Benefits paid	 (76,557,359)
4	Benefits payable transferred to short term liability	•
5	Balance Sheet Liability/(Asset)	153,271,620
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E	Significant Actuarial Assumptions	Jun 30, 2024
	Discount rate used for Interest Cost in P&L Charge	15.75%
1	Discount rate used for year end obligation	14.00%
2	Salary increase used for year end obligation	
3	Salary Increase FY2024	N/A
4	Salary Increase FY2025	14.00%
5	Salary Increase FY2026	14.00%
6	Salary Increase FY2027	14.00%
7	Salary Increase FY2028	14.00%
8	Salary Increase FY2029	14.00%
9	Salary Increase FY2030 onward	14.00%
10 11	Next salary is increased at	01-Jan-25
.,	NEXT SHALLY IS INDICEDED W.	SLIC 2001-2005 Setback 1
12	Mortality Rates	Year
4-	NEW Local Bases	Age-Based
13	Withdrawal Rates	(per appendix)
· 14	Retirement Assumption	Age 60

Trading Corporation of Pakistan (Private) Limited Employees' Leave Encashment Scheme Section 5: Additional IAS 19 Disclosures

Section 5: Additional IAS 19 Disclosures

5.1. Additional Disclosure Items

		Amount in
Α	Year End Sensitivity Analysis on Defined Benefit Obligation	Jun 30, 2024
1	Discount Rate + 100 bps	138,127,551
2	Discount Rate - 100 bps	170,845,191
3	Salary Increase + 100 bps	170,567,374
4	Salary Increase -100 bps	138,103,909
5	The average duration of the defined benefit obligation is	11 Years

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NAUMAN A. CHEEMA M.Sc., FSA, FPSA

Appendix I: Scheme Rules

Summary of Benefits Payable <u>Under</u> <u>Trading Corporation of Pakistan (Private) Limited</u> <u>Employees' Leave Encashment Scheme</u>

Employees of Trading Corporation of Pakistan (Pvt) Limited are entitled to 48 Earned Leaves per annum during their continuous service.

Encashment During Service:

Employees can encash the accumulated leaves once in every calendar year as per following schedule:

Employee Type	Maximum Encashment	Minimum number of leaves to be at credit
Officer	90 days	60 days
Staff	90 days	60 days

Encashment on Retirement and Death:

On retirement or in case of death during service employees can encash up to maximum of 360 days leave balance.

TCP Officers are also entitled to opt for LPR (Leave Preceding Retirement), up to maximum of 365 days, in lieu of leave encashment at retirement subject to management's approval.

The leave encashment at retirement and in case of death is based on last drawn Gross Salary.

We have used the following basis to determine the leave encashment liabilities:

Average Number of Leaves Accumulated per annum by Employee	s 10 days
Average Number of Leaves Utilised per annum by Employees	38 days
Average Number of Beaves States	

Trading Corporation of Pakistan (Private) Limited Employees' Leave Encashment Scheme Appendix I: Scheme Rules

Risk Associated with the Scheme

• Final Salary Risk (linked to inflation risk) – the risk that the final salary at the time of cessation of service is greater than what we assumed. Since the benefit is calculated on the final salary (which will closely reflect inflation and other macroeconomic factors), the benefit amount increases as salary increases.

Demographic Risks

- o Mortality Risk The risk that the actual mortality experience is different than the assumed mortality. This effect is more pronounced in schemes where the age and service distribution is on the higher side.
- Withdrawal Risk The risk of actual withdrawals experience is different from assumed withdrawal probability. The significance of the withdrawal risk varies with the age, service and the entitled benefits of the beneficiary.

Trading Corporation of Pakistan (Private) Limited Employees Leave Encashment Scheme Appendix II: Demographic Assumptions

Appendix II: Demographic Assumptions

The following demographic assumptions have been used in the actuarial valuation.

	Age	Death Rate	Withdrawal Rate
	18	0.00084	0.28900
	19	0.00090	0.27200
	20	0.00094	0.25000
	21	0.00096	0.23800
	22	0.00097	0.22500
	23	0.00099	0.21300
	24	0.00101	0.20000
	25	0.00103	0.18800
	26	0.00106	0.17500
	27	0.00108	0.16300
	28	0.00112	0.15000
•	29	0.00115	0.13800
	30	0.00119	0.12500
	31	0.00124	0.11300
	32	0.00129	0.10000
	33	0.00135	0.08800
	34	0.00141	0.07500
	35	0.00149	0.06300
-	36	0.00158	0.05000
	37	0.00168	0.05000
	38	0.00179	0.03800
	39 .	0.00192	0.03800
	40	0.00208	0.02500
	41	0.00225	0.02500
	42	0.00225	0.01300
		0.00243	0.00600
	43 44	0.00207	0.00600
		0.00223	0.00600
	45	0.00322	0.00600
	46	0.00333	0.00600
	47		0.00600
	48	0.00436	0.00600
	49	0.00484	0.00300
	50.	0.00538	0.00300
	51	0.00599	
	52	0.00667	0.00300
	53	0.00742	0.00300
	54	0.00824	0.00300
	55	0.00915	0.00200
	56	0.01013	0.00200
	57	0.01120	0.00200
	58	0.01234	0.00200
	59	0.01354	0.00200
	60	0.00000	0.00000