EMPLOYEE BENEFIT VALUATIONS OF COMPANIES OUTSIDE INDIA CARRIED OUT BY INDIAN ACTUARIES

CHALLENGES, CONSIDERATIONS AND EXPERIENCES

Presenter
Hemanshu Jain, FIAI
Consulting Actuary, Mercer

AGENDA

1. Decision to take up the assignment

- * Source of assignment
- * Information available
- * Background checks

2. Understanding benefits to be valued

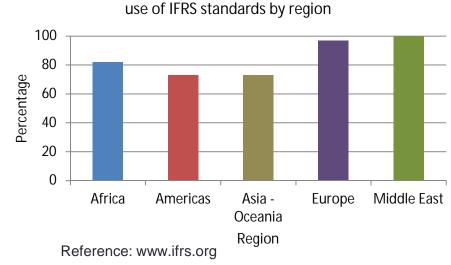
- * Need of valuation
- * Common type of plan
- * Variation in benefits
- * Nature of termination benefits

3. Preparation of results

- * Data collection
- * Assumption selection
- * Other considerations

WHY VALUATIONS OF COMPANIES OUTSIDE INDIA FAVORABLE FACTORS

- A. Globalization
- B. Widespread adoption of IFRS accounting standard
- C. Ever increasing pressure on public & private sector arrangements:
 - As population across geographies age
 - Low growth\low interest economic environment Profiled jurisdictions that require
 - Multiple favorable pension reforms
- D. Similar benefits in many locations
- E. Limited practitioners at many locations



1. Decision to take up Assignment

DECISIONS TO TAKE UP ASSIGNMENT SOURCE OF ASSIGNMENT

India MNC foreign subsidiary or JV – for India books Foreign MNC subsidiary or JV – for local books

Merger &
Acquisition (M&A) –
due diligence

Whether assignment is from our existing client or new client?

Challenges include:

- Understanding overall benefits e.g. all type of regulatory benefits and practices by local company.
- Availability of necessary plan documents to understand benefits.
- Limited communication channel\window with the local entity.

DECISIONS TO TAKE UP ASSIGNMENT INFORMATION AVAILABLE

- A. Restrictions of advice by regulation, local actuarial society?
- B. Purpose of valuation Accounting\Funding\Other?
- C. Accounting Standard for reporting?
- D. Is there any language barrier?
- E. Are the benefits actuarially valued by someone else? Will reports of prior actuarial valuation available for this assignment?
- F. Does the company has an internal well laid out rules\terms for there employee benefits?
- G. Timelines sufficient for proper assessment?

DECISIONS TO TAKE UP ASSIGNMENT BACKGROUND CHECKS

- One may want to do a background check on:
 - Company business activities, serious litigations
 - Country sanctions, data security laws, outsourcing laws
 - Local laws for remittance and taxes competitive disadvantage
- Do not want to associate name with entities involved in dubious activities, countries with sanctions etc.
- Why this assignment is discussed with Indian Actuary?

2. Understanding benefits to be valued

UNDERSTANDING BENEFITS TO BE VALUED COMMON TYPE OF PLANS

Severance Pay

- Usually payable on exit of employee on conditions other than retirement, death and disability.
- Commonly employer pays in form of lumpsum to extinguish liability
- Indemnities only in case of in-voluntary terminations, redundancy exercises may not be require Accounting valuation for long term benefit obligations

Retirement Indemnity

- Sometimes refer to DC type retirement savings plan.
- Plans may offer same benefit as in case other forms of exit like termination.
- May be less material with countries of young population & high attrition.

UNDERSTANDING BENEFITS TO BE VALUED COMMON TYPE OF PLANS

Leaves

- Whether leaves are encashable (service\exit) or can only be availed as holiday
- How long accrued leaves can be carried forward from current year?
- Flexible benefits offered to employees in lieu of accumulated leaves

Pension & PRM

- DB or DC arrangement
- Cost sharing arrangement b\w employer\employee

Long service award

- Non-Monetary benefits like Appreciation, Plaque, Seniority etc.
- Associated education assistance program

UNDERSTANDING BENEFITS TO BE VALUED NEED OF AN ACTUARIAL VALUATION

- Sometimes benefit payable may have:
 - Very low probability of occurrence
 - Low cost for employer
- E.g. company practices to give cash award to employees with 25 years of service on retirement. Company operates in an high salary & high attrition environment.
- Although paying benefit is a practice of company and is long term in nature but its obligation may not be material in company financials.
- Materiality discussion should happen with company, auditors to help them decide.

May be Yes

No May be

Value of benefit

Decision matrix to decide valuation of a benefit.

UNDERSTANDING BENEFITS TO BE VALUED NATURE OF TERMINATION BENEFIT

- Regulations of many countries offer different kind of benefits on exit of an employee from company.
- Benefits could vary on an employee reason for termination from company:
 - Voluntary Resignation
 - Involuntary Resignation
- Many regulations cover these benefits with different names:
 - Severance pay
 - Termination indemnity
 - Redundancy package

UNDERSTANDING BENEFITS TO BE VALUED NATURE OF TERMINATION BENEFIT

- E.g. an employer shall pay severance allowance where an employee has completed 6 months of service and where following conditions apply:
 - ✓ on employee contract termination by company
 - ✓ on employee contract termination due to employer insolvency
 - ✓ on employer inability to pay wages
 - ✓ if employee dies or met physical incapacity in service
- Benefits payable for reasons other than termination on employer discretion (e.g. retirement, death, disability and resignation) will need to be recorded in long term obligation.

UNDERSTANDING BENEFITS TO BE VALUED VARIATION IN BENEFITS

- Variation in benefit on employee nature of exit from company:
 - Thai companies offer generous benefits on employee retirement compared to resignation. Employees are also offered long service award in form of GOLD!
- Flexible benefits:
 - Israel law require companies to offer both DB & DC benefits. Employees who opts for DC benefit see accumulation of DB benefit at lower rate.
- Variation in salary definition for benefit amount:
 - US tax laws mandate employers to limit maximum wages to be considered for pension benefits for schemes eligible for tax-rebates. Companies can offer separate schemes allowing unlimited wages (for executives).
 - Similarly there are cap(s) on maximum benefit payable to an employees.
- Any non-discriminatory regulations needs to be considered in valuation.

3. Preparation of Results

PREPARATION OF RESULTS DATA COLLECTION PROCESS

- Actuary could face challenges in collecting correct information for valuation.
 - Indirect communication
 - Language
 - Understanding gap on benefit practice
- Pitfalls
 - Salary CTC\Gross vs. Salary for benefit
 - Scheme Membership date vs hire date
 - Participating members deferred, retirees etc.
 - Treatment of Partial payments*
 - Denomination Currency

 South Korea severance payment laws allow an individual withdraw accrued benefit partially in service.

PREPARATION OF RESULTS DATA COLLECTION PROCESS

- Quality of data
 - Is the purpose of valuation beyond financial reporting
 - Benefit statements to members
 - Member details to regulator
- Strategy
 - Engage client in active discussions.
 - Discuss & disclose any assumptions made on data.
 - Validate individual benefit payments made in fiscal year against your calculation.

Match up benefit payments with plan rules

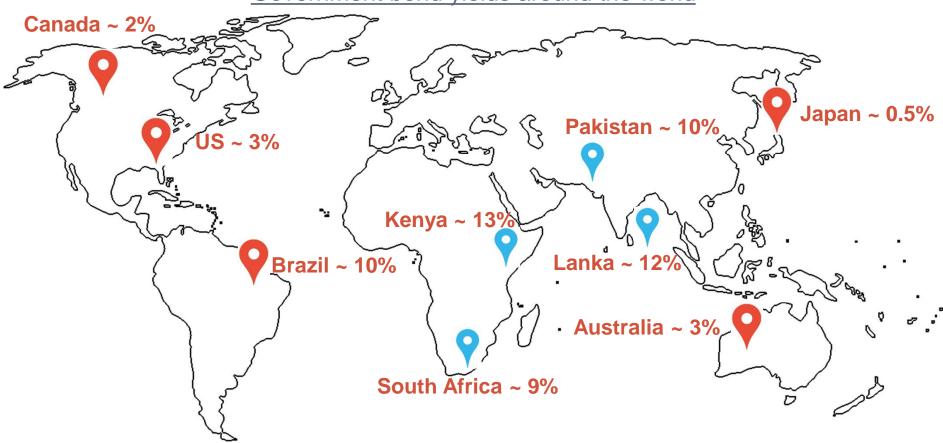


Match up plan rules with benefit payments

 Columbia pension plan reporting requires submission of details of members to pension regulator

PREPARATION OF RESULTS DISCOUNT RATE SELECTION

Government bond yields around the world







PREPARATION OF RESULTS DISCOUNT RATE SELECTION

- IFRS recommend discount rate selection on high quality Corporate bonds denominated in local currency.
- Not many countries have active & deep Corporate bond market
 - Rely on Government bond yields
- Some countries even do not have active Government bond market
- Discount rate selection may be derived from:
 - Yields of latest issue of Government bonds.
 - Yields predicted in World Bank\IMF reports for country
 - Inflation (risk free rate) plus risk premium

PREPARATION OF RESULTS MORTALITY\ MORBIDITY RATE SELECTION

- Selection of Mortality \ Morbidity rates should be in line with local country regulatory &\or professional practice.
- Many developing\under developed nations do not have sufficient studies on non-annuitant, annuitant mortality and morbidity rates.
- Challenges could be appropriate selection for:
 - Improvement in future mortality.
 - Cohort effect
 - Non-Annuitant mortality vs. overall population statistics
- Assumes more significance in cases like long term annuity payments, low attrition rate environment.

PREPARATION OF RESULTS MORTALITY\ MORBIDITY RATE SELECTION

- Research on appropriate table selection becomes important.
 - Reference from local or other Actuarial society
 http://mort.soa.org/
 - Reference from local country listed companies published accounts on employee benefits
 - Guidance and recommendation from local Actuarial society.
 - Use of appropriate, prudent, justifiable adjustments to tables from other related countries.

PREPARATION OF RESULTS REASONABILITY OF ASSUMPTIONS

- Many accounting standards require Actuary to comment on reasonability of assumptions.
- Actuary should be comfortable with assumptions selected by company and should evaluate them on:
 - Inflation\interest rates
 - Local market trends
- Useful source of information:
 - World Bank reports
 - IMF reports
 - Local Government reports

PREPARATION OF RESULTS ACCOUNTING METHOD

- Most accounting standards permit use of Project Unit Credit method for valuation.
- Some standards require additional information;
 - USGAAP require reporting of Accumulated benefit obligation.
- Treatment of benefit cap, future inflationary increases in benefit may have guiding principles from local Accounting standard or Actuarial body.
- Important to keep consistency if the assignment require reporting under International standard.

PREPARATION OF RESULTS OTHER CONSIDERATIONS

- Asset ceiling
 - Concept of asset ceiling more prominent in geographies with mandated asset backed liabilities.
 - Regulated may limited access of surplus or mandate minimum contributions towards schemes.
- Reimbursement rights
 - Insured Benefits by employer may lead to reimbursement rights
- Reporting to
 - Regulator certifying scheme financial health
 - Members, auditors statement quality data
 - Buyer\Seller

PREPARATION OF RESULTS OTHER CONSIDERATIONS

- Benefits of beneficiaries in scheme Spouse, Children, dependents.
 - Difficult to collect data and make assumptions
 - May unearth significant portion of liability for employer
- Good practice to disclose
 - Detailed description of benefit understanding
 - Approach used in discount rate selection
 - Caveats on scheme membership data used
- Pricing the project
 - Research required for information
 - Risks associated with project professional, reputational
 - Level of interaction involved with stakeholders

SUMMARY

- Valuation of employee benefits of other geographies is a promising opportunity to explore.
- Actuary should consider to fully understand the Accounting, Regulatory, Local practice requirements in this work.
- Active communication with client, auditors would be important to understand benefits\practices, discuss significance of benefits, assumptions etc.
- Additional checks on employee data, reasonability of assumptions and method used for valuation will be required by the Actuary.
- Practicing Actuaries should look to add detailed commentary on understanding, observations and caveats in reports.

Thank You!