XYZ INTERNATIONAL MARKETING PVT LTD

EMPLOYEES GRATUITY SCHEME MEASUREMENT REPORT

Disclosure as per IAS 19 - Defined Benefit Plans

FOR THE PERIOD ENDING 31/DEC/16

SRINIVASAN NAGASUBRAMANIAN B.Sc., A.F.I.I., F.I.A.I., Dip. Manag.

Mem.No: 00144(1985)

March 6, 2017

श्रीनिवासन नाग सुब्रमनियन Srinivasan Naga Subramanian हन्स्टीय्यूट ऑफ एक्युअरीज ऑफ इंडिया के केला Fellow of the Institute of Actuaries of India

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1INDEX

NO	DETAILS	PAGE	NO
2.	PREAMBLE		3
3.	EXECUTIVE SUMMARY		4
4.	SOURCES OF INFORMATION		5
5.	FULL PLAN INFORMATION		6
6.	SIGNIFICANT EVENTS DURING THE PERIOD		7
7.	ACTUARIAL CERTIFICATION		8
8.	TABLE I COST TO BE TAKEN TO P&L		9
9.	TABLE II REMEASUREMENTS RECOGNIZED IN OCI		10
10.	TABLE III NET LIABILITY TAKEN TO B/S		11
11.	TABLE IV CHANGES IN ASSETS & LIAB		12
12.	TABLE V EXPECTED CASHFLOW FOR NEXT YEAR		13
13.	TABLE VI CHANGES IN OCI		14
14.	TABLE VII RECONSILATION OF B/S LIABILITY		15
15.	TABLE VIII NET PERIODIC COST FOR NEXT YEAR		16
16.	TABLE IX SENSITIVITY ANALYSIS		17
17.	APPENDIX A EMPLOYEE PROFILE		18
18.	APPENDIX B KEY ASSUMPTIONS		19
19.	APPENDIX C ASSETS DISTRIBUTION		20
20.	APPENDIX D DEMOGRAPHIC ASSUMPTIONS		21
21.	APPENDIX E METHODOLOGY		23
22.	APPENDIX F COMMENTARY		24
23	APPENDIX C CLOSSARY		2.7

2. PREAMBLE

XYZ INTERNATIONAL MARKETING PVT LTD

(hereinafter called the "Company") has requested us to report on the financial position of employees Projected Benefits Plan relating to Gratuity Scheme (Called "the Plan") Liabilities and ascertain the accounting expenses of it in accordance with IAS 19 for the fiscal year 31-Dec-2016 / period ending on

in view the provisions of keeping

- a) The Rules of the Scheme, salient features of which are given later
- b) Relevant Guidance Notes issued by the Institute of Actuaries of India which are currently in vogue
- c) The Ministry of Corporate Affairs notification dated 16 Feb 15 on Indian Accounting Standard (IAS 19) issued in consultation with National Advisory Committee on Accounting Standards.
- 1.1 A net worth based road map for the phased implementation of IAS 19 has been announced by the Ministry of Corporate Affairs (MCA). For companies with net worth exceedingRs 500 Cr, adoption of IAS 19 is mandatory from 01-04-2016.
- 1.2 The results set out in this Report are based on our understanding of IAS 19 and its application to the Plan. They have been evaluated for the specific requirements of IAS 19 and should not be put to any other use or purpose. In particular this Report does not constitute a formal funding valuation of actuarial liabilities of the of the Scheme and does not present any recommendation of contributions or funding levels.
- 1.3 This Report is delivered solely for the Company's own use and for the definite and specific purposes indicated above. Except where we expressly agree in black and white, it should not be divulged or delivered to any third party, other than as indicated below. In the absence of such consent and an express assumption of responsibility, no responsibility whatsoever is accepted by me for any consequences arising from any third party relying on this Report or any of his advice relating to its contents. The Company may give a copy of this Report available to its Auditors, in connection with the audit of is financial statements but I make no representation as to the suitability of this Report for any purpose other than that for which it was originally provided and accept no responsibility or liability to the company's Auditors in this regard. The Company should draw the provisions of this paragraph to attention of its auditors when passing the report to them.

3.EXECUTIVE SUMMARY

THE TABLE BELOW SHOWS A SUMMARY OF THE KEY RESULTS FOR THE PERIOD ENDING	
DECEMBER 31, 2016	
DEFINED BENEFITS COST: P&L CHARGE FOR PERIOD ENDING	31-Dec-2016
1.CURRENT SERVICE COST	2,517,394
2.NET PERIODIC BENEFIT COST RECOGNISED IN P & L	2,791,638
3.REMEASUREMENTS RECOGNISED IN OTHE COMPREHENSIVE INCOME	(2,355,914)
31-Dec-2015	31-Dec-2016
4.PRESENT VALUE OF DEFINED BENEFITS OBLIGATIONS(DBO)	
3,570,880	4,006,604
5.FAIR VALUE OF THE PLAN ASSETS (FVA)	
0	0
6.NET ASSETS/LIABILITIES RECOGNISED IN BALANCE SHEET	
(3,570,880)	(4,006,604)

Current Service Cost represents the cost associated with the current fiscal year benefit accruals. Total Employer expense is the expense under IAS 19 inclusive of Current Service Cost and net interest.

2.2 Table 1 - Net Periodic Cost	
Expense for the period ending	31-Dec-2016
2.3 Table 2 - Re-measurements	
recognised in OCI for the period ending	31-Dec-2016
2.4 Table 3 - The Net Asset/	
(Liability)	
Recognized in the Balance Sheet as at	31-Dec-2016
2.5 Table 4 - The Reconciliation of PV of Obligation	
& FV of Plan Assets - Period Ending	31-Dec-2016
2.6 Table 5 - Expected Cash Flow	31-Dec-2016
2.6 Table 6 - Changes In Other Comprehensive Income	31-Dec-2016
2.7 Table 7-Reconcilation of Net Balance Sheet	31-Dec-2016
2.7 Table 8-Expense for next YR	
Over the period ending on	31-Dec-2017
2.8 Table 9-Sensitivity Analysis	
Over the period ending on	31-Dec-2016

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4 Sources of Information

- 4.1 In preparing this Report I have used and relied on the financial data as well as membership information supplied to me on the valuation date by the Company
- 4.2 In preparing this Report I have relied on the completeness and accuracy of the Data and Information supplied to me and corroborated orally and in writing by or on behalf of the Company and its advisers. I validation have not completed any detailed checks on provided. information I have, carried out broad however, statistical checks for consistency
- 4.3 In particular I would like to mention that the details of Information on provisions, amendments, Contributions and Benefits Payments, membership data and movements thereon from start of the period of investigations to the end of the period have been taken as provided by the company
- 4.4 The discount rate as on the valuation date is based on the market yields of Government bonds, of a term that matches the term of the liability and applicable to the period over which the obligation is to be settled
- 4.5 The fair value of the Assets on the valuation date has been taken to be as provided by the Company for self-invested funds and as provided by the insurers for managed funds.
- 4.6 A summary of the employee profile is given in **Appendix A**

5.FULL PLAN INFORMATION:

This valuation reflects the provisions of the plan as at valuation date. Following is a summary of the major plan provisions used to determine the plan's financial position; It should not be used to determine individual plan benefits.

VALUATION DATE	31-DEC-2016
SPONSORING EMPLOYER	XYZ INTERNATIONAL
	MARKETING PVT LTD
TYPE OF PLAN	DEFINED BENEFITS
COVERING	GRATUITY
ELIGIBILITY	ALL REGULAR EMPLOYEES
VESTING CRITERIA	
ON RETIREMENT	5 YEARS OF SERVICE
On LEAVING SERVICE	EQUAL TO OR MORE THAN 5 YEARS OF SERVICE
ON DEATH	VESTING CONDITION NOT APPLICABLE
EMPLOYER CONTRIBUTION	100%
EMPLOYEE CONTRIBUTIONS	NIL
APPLICABLE SALARY	LAST DRAWN BASIC + D.A (EXCLUDING ALL OTHER ALLOWANCES AND PERQUISITES))
NORMAL RETIREMENT AGE	58
BENEFIT BASIS	ACCRUED BENEFITS
BENEFIT PAYMENT TYPES	LUMP SUM PAYMENT
NORMAL RETIREMENT BENEFIT	15/26xSalaryxPQS
EARLY RETIREMENT BENEFIT	SAME AS ABOVE
DEATH BENEFIT	SAME AS ABOVE
	PQS IS COMPLETED YEARS OF SERVICE ROUNDED TO
Note	NEAREST INTEGER, SUBJECT TO A MINIMUM OF 5 YEARS
	OF QUALIFYING SERVICE
MAXIMUM LIMIT ON BENEFITS	Rs. 1,000,000
SPECIAL CONDITIONS	Salary paid in a month is treated as for 26 days as per Supreme Cour judgment

6.SIGNIFICANT EVENTS DURING THE YEAR

	Epon 21 Drode To 21 /Drod	
VALUATION PERIOD	FROM 31-DEC-15 TO 31/DEC/1	
Name of Event	STATUS	
PLAN PROVISIONS	THERE IS NO PLAN INTRODUCTION OR CHANGES IN PROVISIONS DURING THIS PERIOD	
BUSINESS COMBINATION	THERE IS NO BUSINESS COMBINATION DURING THIS PERIOD	
DIVESTURE	THERE IS NO DIVESTURE DURING THE PERIOD	
ACQUISITIONS	THERE IS NO ACQUISITION DURING THE PERIOD	
TRANSFER	THERE IS NO TRANSFER DURING THE PERIOD	
CURTAILMENT	THERE IS NO PLAN CURTAILMENT DURING THE PERIOD	
PLAN SETTLEMENT	THERE IS NO PLAN SETTLEMENT DURING THE PERIOD	
PLAN COMBINATION	THERE IS NO PLAN COMBINATION DURING THE PERIOD	
PLAN DIVISION	THERE IS NO PLAN DIVISION DURING THE PERIOD	
SPECIAL TERMINATION	THERE IS NO SPECIAL TERMINATION DURING THE PERIOD	
LIABILITY FUNDING	UNFUNDED GRATUITY PLAN	
FUNDING METHODOLOGY	NOT APPLICABLE	
BENEFITS PAYMENTS	Pay As You Go method used for gratuity settlement	
SALARIES	THERE IS SIGNIFICANT INCREASE IN AVERAGE SALARY DURING THE PERIOD	
PERCENTAGE INCREASE/DECREASE IN SALARIES	THE AVERAGE SALARY INCREASED BY-15.45% DURING THE PERIOD	
EMPLOYEE COUNT	THERE IS DECREASE IN EMPLOYEE COUNT DURING THE PERIOD	
PERCENTAGE IN EMPLOYEE COUNT	THE EMPLOYEE COUNT DECREASED BY - 38.24% - DURING THE PERIO	
EVENTS POST VALUATION DATE	WE HAVE NOT BEEN NOTIFIED BY THE COMPANY NOR ARE WE AWARE OF ANY EVENTS SUBSEQUENT TO THE VALUATION DATE WHICH IN OUR OPINION WOULD HAVE MATERIAL IMPACT ON THE RESULTS OF THE VALUATION.	

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7.CERTIFICATION

- 7.1 The assumptions and methodology used in compiling this Report are consistent with our understanding of IAS 19. Our calculations follow the company's accounting policy of immediate recognition of gains and losses in the Other Comprehensive Income via retained earnings not in Profit or Loss Account
- 7.2 The actuarial assumptions adopted for the valuation have been discussed and agreed with the Company. Based on the information provided to us we believe that the actuarial assumptions are reasonable for the purposes

described in the report.

- 7.3 The results are particularly sensitive to some assumptions, such as the discount rate, level of salary inflation, level of assumed price inflation and mortality. A decrease in the discount rate assumed or an increase in salary inflation will lead to an increase in reported cost
- 7.4 The key assumptions used in the valuations are set out in **Appendix B.** The approach used for setting the assumptions is similar to prior year
- 7.5 The report was prepared in accordance with generally accepted actuarial principles and procedures.
- 7.6 The distribution of assets categories is set out in Appendix C.
- 7.7 The methodology used in the calculations are set out in **Appendix D.**
- 7.8 The Items pertaining to Revised Schedule III of Companies Act 2013 is in Table 3 bottom
- 7.9 Based on membership data and plan information provided to me as on the valuation date I have made full actuarial valuation as at the end of the date.
- 7.10 The full results of my calculations are set out in Tables 1 to 9.
- 7.11 I would be pleased to discuss this Report with you Yours faithfully,

श्रीनिवासन नाग सुब्रमनियन rinivasan Naga Subramanian न्टीव्यट ऑफ एक्युअरीज ऑफ इंडिया के केलो ellow of the Institute Actuaries of India

SrinivasanNagasubramanian,

Fellow of the Institute of Actuaries of India.

Mem No: 00144 (1985).

March 6, 2017

AMOUNT TO BE RECOGNISED IN PROFIT & LOSS ACCOUNT **NET PERIODIC BENEFIT COST RECOGNISED**

TABLE 1
XYZ INTERNATIONAL
MARKETING PVT LTD

EMPLOYEES GRATUITY SCHEME

Actuarial Measurements as per IAS 19

Disclosure of employer expense for the period ending

31-Dec-2016

Local currency -

Rupees

Expense Recognised In Income Statement

The following table summarises the components of net benefit expenses recognised in the P&L Account

Α_	Components of Employer expense		
	Service Cost	31-Dec-2015	31-Dec-2016
1	Current service Cost	2,596,320	2,517,394
2	Past service cost - Plan Amendment	0	0
3	Curtailement Cost/(Credit)	0	0
4	Settlement Cost/(Credit)	0	0
5	Total Service Cost	2,596,320	2,517,394
	Net Interest Cost		
6	Interest Expense on DBO	51,096	274,244
7	Interest (Income on Plan Asset)	0	0
8	Interest (income)on reimbursement rights	0	0
9	Interest expense on effect of (asset ceiling)	0	0
10	Total Net Interest	51,096	274,244
11	Immediate Recognition of (Gain)/Losses- Other Long Term Benefits	0	0
12	Cost of Termination Benefits	0	0
13	Administrative Expenses and Taxes	0	0
14	Defined Benefits cost included in P&L	2,647,416	2,791,638
	Discount rate as per market yields on Government bon	ids as at valuation date	
	6,57%		

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TABLE 2 **XYZ INTERNATIONAL MARKETING PVT LTD**

EMPLOYEES GRATUITY SCHEME

Actuarial Measurements as per IAS 19

Net Asset/(Liability) Recognised in Balance Sheet on-

31-Dec-2016

Local currency -

Rupees

The following Table gives the Funded Status and the amount recognised in the Balance Sheet for the Plan

Α	Net Asset/(Liability) Recognised in Balance Sheet -	31-Dec-2015	31-Dec-2016
	Actuarial (Gain) / Losses due to Demographic Assumption changes in DBO	0	15,173
2	Actuarial (Gain) / Losses due to Financial Assumption changes in DBO	793,445	314,782
3	Actuarial (Gain)/ Losses due to Experience on DBO	-507,879	-2,685,869
1	Return on Plan Assets (Greater) / Less than Disount rate	0	0
5	Return on reimbursement rights (excluding interest income)	0	0
6	Changes in asset ceiling /onerous liability (excluding interest Income)	0	0
,	Total actuarial (gain)/loss included in OCI	285,566	-2,355,914
3	Total cost recognised in P&L and OCI (Defined Benefit Cost)		
)	Cost Recognised in P&L	2,647,416	2,791,638
10	Remeasurement Effect Recognised in OCI	285,566	-2,355,914
1	Total Defined Benefit Cost	2,932,982	435,724
	Discount rate		·
	6.57%		

NET AMOUNTS TO BE RECOGNISED IN THE BALANCE SHEET **DEVELOPMENT OF NET BALANCE SHEET POSITION**

	TABLE 3		
	XYZ INTERNATIONA	AL .	
	MARKETING PVT LT	ľD	
	EMBLOWERS OF ATHERY SOF	нем не	
	EMPLOYEES GRATUITY SCH	<u>IEME</u>	
	Actuarial Measurements as per L	AS 19	
	Net Asset/(Liability) Recognised in Balance Sheet on-		31-Dec-201
	Local currency -	R	lupees
Α	Net Asset/(Liability) Recognised in Balance Sheet -	31-Dec-2015	31-Dec-2016
A	Net Asset/(Liability) Recognised in Balance Sheet – Present value of Benefit Obligation	31-Dec-2015 3,570,880	31-Dec-2016 4,006,604
1			
I 2	Present value of Benefit Obligation	3,570,880	4,006,604
1 2 3	Present value of Benefit Obligation Fair Value of Plan Assets	3,570,880 0	4,006,604
1 2 3	Present value of Benefit Obligation Fair Value of Plan Assets Funded status [Surplus/(Deficit)]	3,570,880 0 -3,570,880	4,006,604 0 -4,006,604
1 2 3 4	Present value of Benefit Obligation Fair Value of Plan Assets Funded status [Surplus/(Deficit)] Unrecognised Past Service Costs	3,570,880 0 -3,570,880	4,006,604 0 -4,006,604
1 2 3 4	Present value of Benefit Obligation Fair Value of Plan Assets Funded status [Surplus/(Deficit)] Unrecognised Past Service Costs Net Assets/(Liability)	3,570,880 0 -3,570,880 0	4,006,604 0 -4,006,604
	Present value of Benefit Obligation Fair Value of Plan Assets Funded status [Surplus/(Deficit)] Unrecognised Past Service Costs Net Assets/(Liability) Recognised in balance sheet	3,570,880 0 -3,570,880 0 -3,570,880	4,006,604 0 -4,006,604
1 2 3 4	Present value of Benefit Obligation Fair Value of Plan Assets Funded status [Surplus/(Deficit)] Unrecognised Past Service Costs Net Assets/(Liability) Recognised in balance sheet REVISED SCHEDULE III COMPANIES ACT 2013 CURRNT LIABILITY NON-CURRENT LIABILITY	3,570,880 0 -3,570,880 0 -3,570,880 11,971 3,558,909	4,006,604 0 -4,006,604 0
1 2 3 4	Present value of Benefit Obligation Fair Value of Plan Assets Funded status [Surplus/(Deficit)] Unrecognised Past Service Costs Net Assets/(Liability) Recognised in balance sheet REVISED SCHEDULE III COMPANIES ACT 2013 CURRNT LIABILITY NON-CURRENT LIABILITY Assumption on December:	3,570,880 0 -3,570,880 0 -3,570,880 11,971 3,558,909 31, 2016	4,006,604 0 -4,006,604 0 -4,006,604
1 2 3 4	Present value of Benefit Obligation Fair Value of Plan Assets Funded status [Surplus/(Deficit)] Unrecognised Past Service Costs Net Assets/(Liability) Recognised in balance sheet REVISED SCHEDULE III COMPANIES ACT 2013 CURRNT LIABILITY NON-CURRENT LIABILITY	3,570,880 0 -3,570,880 0 -3,570,880 11,971 3,558,909 31, 2016	4,006,604 0 -4,006,604 0 -4,006,604
1 2 3 4	Present value of Benefit Obligation Fair Value of Plan Assets Funded status [Surplus/(Deficit)] Unrecognised Past Service Costs Net Assets/(Liability) Recognised in balance sheet REVISED SCHEDULE III COMPANIES ACT 2013 CURRNT LIABILITY NON-CURRENT LIABILITY Assumption on December:	3,570,880 0 -3,570,880 0 -3,570,880 11,971 3,558,909 31, 2016	4,006,604 0 -4,006,604 0 -4,006,604

CHANGES IN PRESENT VALUE OF DEFINED BENEFIT OBLIGATION AND RECONCILIATION THEREOF

	IAS 19		
	TABLE 4		
XYZ INTERNATIONAL			
	MARKETING PVT LTD		
	EMPLOYEES GRATUITY SCHEME		
	Actuarial Measurements as per IAS 19		
Α	Change in Obligation over the period ending on		31-Dec-2016
	Local currency - Rupees	31-Dec-2015	31-Dec-2016
1	Present Value of Defined Benefits	637,898	3,570,880
	Obligation At Beginning(Opening)		
2	Current Service Cost	2,596,320	2,517,394
3	Interest Cost	51,096	274,244
4	Plan Amendments	0	0
5	Prior Service Costs	0	0
6	Curtailments	0	0
7	Settlements	0	0
8	Actuarial (Gains)/Loss	285,566	-2,355,914
9	Benefits Paid	0	-0
10	Acquisitions/Divestures	0	0
11	Present Value Of Defined Benefits	3,570,880	4,006,604
	Obligation At the end (Closing)	_	
	-		
В	RECONCILIATION OF OPENING & CLOSING VALUES OF PLAN ASSETS		
1	Fair Value of Plan Assets	0	0
	at the beginning(Opening)		
2	Expected Return on Assets	0	0
3	Employer Contribution	0	0
4	Plan Participants Contributions	0	0
6	Settlements By Fund Manager	0	0
7	Benefits Payouts	0	-0
8	Actuarial gain/(Loss)	0	0
9	Fair Value of assets at the End	0	0
10	Actual Return on Plan Assets	0	0

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EXPECTED CASHFLOWS FOR NEXT YEAR TABLE 5 **XYZ INTERNATIONAL MARKETING PVT LTD EMPLOYEES GRATUITY SCHEME Actuarial Measurements as per IAS 19** 31-Dec-2016 Local currency -Rupees The following Table gives the Funded Status and the amount recognised in the Balance Sheet for the Plan **INFORMATION REQUIRED UNDER FAS-132** 31-Dec-2015 31-Dec-2016 4,006,604 **Projected Benefit Obligation** 3,570,880 1 1,986,809 2 **Accumulated Benefits Obligation** FIVE YEAR PAYOUTS 3 2017 4 8,711 2018 5 7,849 2019 7,105 2020 6,453 2021 5,876 NEXT 5 YEAR PAYOUTS(6-10YRS) 29,723 CONTRIBUTIONS TO BE MADE IN THE NEXT PERIOD (Para 147(b) 3,833,173

CUMULATIVE ACTUARIAL GAIN/LOSS RECOGNISED IN THE O.C.I ACCOUNT

EMPLOYEES GRATUITY SO tarial Measurements as per IAS 19 ulative Gains Recognised in OCI Account the period ending on Local currency - Rupees	TD	
EMPLOYEES GRATUITY SO narial Measurements as per IAS 19 ulative Gains Recognised in OCI Account the period ending on		
narial Measurements as per IAS 19 ulative Gains Recognised in OCI Account the period ending on	CHEME	
narial Measurements as per IAS 19 ulative Gains Recognised in OCI Account the period ending on	CHEME	
ulative Gains Recognised in OCI Account the period ending on		
ulative Gains Recognised in OCI Account the period ending on		
the period ending on		
Local currency - Rupees		31-Dec-1
ınts Recognized in Other Comprehensive Income	31-Dec-15	31-Dec-16
ints Recognized in Guici Comprenensive income	01-000 10	01-Dec-10
ng Unrecognized Losses / (Gains)	0	285,566
rial Loss / (Gain) On DBO	285,566	-2,355,914
rial Loss /(Gain) On Assets	0	0
ervice Cost (Credit)	0	0
ization Of Prior Service Cost	0	0
ization Actuarial Loss /(Gain)	0	0
Recognised In Other Comprehensive Income	285,566	-2,070,348
ii r s t	unts Recognized in Other Comprehensive Income ing Unrecognized Losses / (Gains) rial Loss / (Gain) On DBO rial Loss / (Gain) On Assets Service Cost (Credit) tization Of Prior Service Cost tization Actuarial Loss / (Gain) Recognised In Other Comprehensive Income	ing Unrecognized Losses / (Gains) rial Loss / (Gain) On DBO rial Loss / (Gain) On Assets O Service Cost (Credit) tization Of Prior Service Cost 0 tization Actuarial Loss / (Gain)

TABLE 7
XYZ INTERNATIONAL
MARKETING PVT LTD
EMPLOYEES GRATUITY SCHEME
Actuarial Measurements as per IAS 19
Reconciliation Of Net Balance Sheet Liability
For the period ending on 31-Dec-16
Local currency - Rupees

	For the Period ending	31-Dec-15	31-Dec-16
1	Net Balance sheet Asset/(Liability) Recognised at begginning	-637,898	-3,570,880
2	Amount Recognised In Accumulated Other Comprehensive Income/Loss at the begginning of the period	0	285,566
3	(Accrued)/ Prepaid benefit cost(Before adjustment) at begginning the of period	-637,898	-3,285,314
4	Net Periodic Benefit (Cost)/Income for the period	-2,647,416	-2,791,638
5	Employer Contribution	0	0
6	Currency Impact	0	0
7	(Accrued)/ Prepaid benefit cost(Before Adj) at end of period	-3,285,314	-6,076,952
8	Amount Recognised In Accumulated Other Comprehensive Income/Loss at the end of the period	285,566	-2,070,348
9	Direct Benefit by Employer	0	0
10	Acquisition / Divestures/ Termination benefit	0	0
11	Net Balance Sheet Asset/LiabRecognised at the end of the period	-3,570,880	-4,006,604

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AMOUNT TO BE RECOGNISED IN PROFIT & LOSS ACCOUNT **NET PERIODIC BENEFIT COST FOR NEXT YEAR**

TABLE 8			
XYZ INTERNATIONAL			
MARKETING PVT LTD			
EMPLOYEES GRATUITY SCHEME			
Actuarial Measurements as per IAS 19			
Disclosure of employer expense for the period ending 31-Dec-17			
Local currency -	Rupees		
Expense Recognised In Income Statement			

The following table summarises the components of net benefit expenses recognised in the Profit & Loss Account for next year.

	Components of Employer expense	31-Dec-17
	Current service Cost	3,760,203
	Interest cost	263,234
	Expected return On assets	0
	Amortization Of Prior Service Costs	0
	Losses / (Gains) On Curtailments &Settlement	
	Net Actuarial Loss/(Gain)	0
	Amortization of Actuarial Loss/(Gain)	0
8	Total Emp. ExpRecognised in the Statement of P & L	4,023,437
	Assumption on December 31, 2016	
	Discount rate as per market yields on high quality corporate bonds as at the 12/11/14	
	6.57%	

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SENSITIVITY ANALYSIS

TABLE 9	
XYZ INTERNATIONAL	
MARKETING PVT LTD	
EMPLOYEES GRATUITY SCHEME	
STRESS TESTING	
Actuarial measurements for IAS19 purposes	· · · · · · · · · · · · · · · · · · ·
Reconciliation of Net Asset/(Liability) Recognised in Balance Sheet	
For the period ending on 31-De	ec-16
Rupees	

SENSITIVITY OF DBO, SERVICE COST & PROFIT/LOSS ACCOUNT

Α	A Net Asset/(Liability) Recognised in Balance Sheet -		
		% increase in DBO	LIABILITY
1	DISCOUNT RATE +100 basis points	-7.18%	3,718,807
2	DISCOUNT RATE -100 basis points	7.92%	4,323,905
3	SALARY GROWTH +100 basis points	5.90%	4,243,032
4	SALARY GROWTH -100 basis points	-5.70%	3,778,227
5	ATTRITION RATE +100 basis points	-4.33%	3,833,052
6	ATTRITION RATE-100 basis points	4.47%	4,185,761
7	MORTALITY RATE 10% UP	-0.03%	4,005,389

While one of the parameters mentioned above is changed by 100 basis points,

While there is no change in the method used for sensitivity analysis from previous period,

the change in assumptions now considered are with reference to the current assumptions

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other parameters are kept unchanged for evaluating the DBO

SUMMARY OF EMPLOYEE PROFILE

A.1 Active Members:

TABLE A				
	XYZ INTERNATI MARKETING PV			
	MARKETING FY	I LID		
	EMPLOYEES GRATUIT	TY SCHEME		
	ACTIVE MEMB	ERS		
_	AS AT	31-Dec-15	31-Dec-16	
Α	A5 A1	31-560-13	31-Dec-10	
1	Number of Employees	306	189	
2	Total Monthly salaries	8,884,868	6,335,629	
3	Average Monthly Salaries	29,036	33,522	
4	Average past service	0.64	1.20	
5	Discontinuance Gratuity	4,698,526	5,774,866	
6	Term of Liability	4.42	4.45	
7	Average Age	33.04	33.08	

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<u>APPENDIX B</u> <u>KEY ASSUMPTONS</u>

One of the principal assumptions is the discount rate, which should be based upon the market yields available on Government bonds at the accounting date with a term that matches that of the liabilities.

The financial and demographic assumptions employed for the calculations as at the end of previous period and current period are as follows

at the end of previous period and earliest period are as follows		ı	
Assumption		31-Dec-15	31-Dec-16
Discount rate		7.68%	6.57%
Expected return on assets		0.00%	0.00%
Salary Escalation		12.00%	12.00%
		.	•
Attrition Rate		20.10%	20.00%
	n Assured	l Lives Mortalit	y(2006-08)
	(Ultimat	te)	

a sample pick from this table as below

Age	Mortality	
20	0.000848	
30	0.001056	
35	0.001282	

Disability:

Provided under demographic assumptions

Notes

- 1.All the assumptions have been set following discussions with the company in this regard
- 2.We understand that the assumption of future salary increases (which has been set in consultation with the company), take account of inflation, seniority, promotion and other relevant factors, such as supply and demand in the employment market

Contd...

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MAJOR CATEGORIES OF PLAN ASSET AS A PERCENTAGE OF THE FAIR VALUE

	AS A PERCENTAGE OF THE FAIR VALUE		
	APPENDIX C		
	XYZ INTERNATIONAL		
	MARKETING PVT LTD		
	EMPLOYEES GRATUITY SCHEME		
	ASSETS DISTRIBUTION		
_	40 · m	015 :-	
Α	AS AT	31-Dec-15	31-Dec-16
	PERCENTAGES		
1	Govt Securities(Central&State)	0.00%	0.00%
2	Highquality Corporate Bonds	0.00%	0.00%
3	Equity shares of Listed Cos	0.00%	0.00%
4	Property	0.00%	0.00%
5	Special deposits	0.00%	0.00%
6	Others(PSU)	0.00%	0.00%
7	Assets Under Insurance Schemes	0.00%	0.00%
			0
8	Total	-	

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ACTUARIAL ASSUMPTIONS:

I have used actuarial assumptions selected by the Company. Any Changes in actuarial assumptions, methods or plan provisions since the prior valuations are described in this report. The assumptions used in compiling this report are consistent with the requirements of IAS 19. The company was advised on assumptions as per the requirements under IAS 19.

DEMOGRAPHIC ASSUMPTIONS:

THE FOLLOWING DEMOGRAPHIC ASSUMPTIONS WERE USED IN VALUING THE LIABILITIES AND BENEFITS UNDER THE PLAN.

INDIAN ASSURED LIVES MORTALITY

MORTALITY: (2006-08)

ULTIMATE

DISABILITY: 5% OF MORTALITY RATE RATES

WITHDRAWAL: 20.00%

RETIREMENT AGE: 58

TABLE OF SAMPLE RATES

Mortali	Mortality		Dis	ability
Male	Female	Age	Male	Female
0.0848%	0.0848%	20	0.0042%	0.0042%
0.0984%	0.0984%	25	0.0049%	0.0049%
0.1056%	0.1056%	30	0.0053%	0.0053%
0.1282%	0.1282%	35	0.0064%	0.0064%
0.1803%	0.1803%	40	0.0090%	0.0090%
0.2874%	0.2874%	45	0.0144%	0.0144%
0.4946%	0.4946%	50	0.0247%	0.0247%
0.7888%	0.7888%	55	0.0394%	0.0394%
1.1534%	1.1534%	60	0.0577%	0.0577%

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SAMPLE RATES CONTD...

Me	ortality		Disabili	ty
Male	Female	Age	Male	Female
1.7009%	1.7009%	65	0.0850%	0.0850%
2.5855%	2.5855%	70	0.1293%	0.1293%
3.9637%	3.9637%	75	0.1982%	0.1982%
6.0558%	6.0558%	80	0.3028%	0.3028%
9.1982%	9.1982%	85	0.4599%	0.4599%
13.8895%	13.8895%	90	0.6945%	0.6945%
20.8585%	20.8585%	95	1.0429%	1.0429%
31.1628%	31.1628%	100	1.5581%	1.5581%
		Age		
	lrawal		Retireme	
20%	20%	20	0%	0%
20%	20%	25	0%	0%
20%	20%	30	0%	0%
20%	20%	35	0%	0%
20%	20%	40	0%	0%
20%	20%	45	0%	0%
20%	20%	50	0%	0%
20%	20%	55	0%	0%
0%	0%	60	100%	100%
0%	0%	65	100%	100%
0%	0%	70	100%	100%
0%	0%	75	100%	100%
0%	0%	80	100%	100%
0%	0%	85	100%	100%
0%	0%	90	100%	100%
0%	0%	95	100%	100%
0%	0%	100	100%	100%

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APPENDIX F: THE METHODOLOGY

D.1 Defined Benefits Schemes:

These are schemes under which benefits are related to the remuneration at or near retirement, and /or years of service. The extent of an employer's obligation under such schemes is usually uncertain and requires estimation. In estimating the obligation, assumptions are made regarding future conditions and events, which are largely outside the employer's control.

D.2 Allocation Problems:

The retirement benefits under defined benefit schemes are earned over a long period and various factors frequently enter into the computation of these benefits. As a result, allocation problems arise in determining how the cost of retirement benefits should be recognized in the financial statements of the employer. The cost of retirement benefits to an employer relates to service put in by employees who are entitled to receive such benefits. Consequently the cost of retirement benefits needs to be accounted for in the period during which these services are rendered. Expensing the Defined Benefit retirement benefit costs at the time of employees exit does not appropriately achieve the objective of allocating these costs uniformly over the working lifetime of the employees.

D.3 Actuarial Value of Accrued Obligation:

This is done having regard to the following:

1) The Accrued Service as on the date of valuation 2) Salaries projected to the date of separation, based on appropriate assumptions as to the average rate of future annual salary increases. 3) The probabilities of death or resignation before retirement. 4) The likely future return on investments of funds.

D.4 Projected Unit Credit Method (Summary of Actuarial Cost Method)

We have used the Projected Unit Credit (PUC) actuarial method to assess the Scheme's liabilities, as required by IAS 19,including those related to death-in-service and incapacity benefits. Under the PUC method a "projected accrued benefit" is calculated at the beginning of the year and again at the end of the year for each benefit that will accrue for all active members of the Plan. The "projected accrued benefit" is based on the Scheme's accrual formula and upon service as of the beginning or end of the year, but using a member's final compensation, projected to the age at which the employee is assumed to leave active service. The Scheme Liability is the actuarial present value of the "projected accrued benefits" as of the beginning of the year for active members.

D.5 The measurement:

The liability is determined actuarially, by calculating the expected future cash outflows in respect of each individual employee by the application of a multiple decrement table which takes in to account the exits by way of normal age-retirement, earlier death while in service and other premature withdrawals. Then the present value of these expected payments is arrived at, using an appropriate rate of discount and added up.

D.6Recognition of Actuarial Gains and Losses.

Remeasurementsarising from defined benefit plans comprise actuarial gains and losses on benefits obligations, the return on plan assets in excess of what has been estimated and the effect of asset ceiling, if any, in case of over funded plans, The company recognizes these items of measurements immediately in other comprehensive income and all the other expenses related to defined plans in employee benefit expenses in profit and loss account.

<u>COMMENTARY</u>

Description of Plan Characteristics and Associated Risks:

The Gratuity scheme is a final salary defined benefit plan, that provides for a lump some payment at the time of seperation based on scheme rules. The benefits are calculated on the basis of last drawn salary and the period of service at the time of seperation and paid as lumpsum.

The design entiles the following risks that affect the liabilities and cash flows,

- 1. Interest rate risk: the defined benefit obligation calculated uses a discount rate based on government bonds. If bond yields fall, the defined benefit obligation will tend to increase.
- 2. Salary inflation risk: higher than expected increases in salary will increase the defined benefit obligation.
- 3. Demographic risks: this is the risk of volatility of results due to unexpected nature of decrements that include mortality, attrition, disability and retirement. The effects of these decrement on the DBO depends upon the combination salary increase, discount rate, and vesting criteria and therefore not very straight forward. It is important not to overstate widthdrawal rates, because the cost of retirement benefit of a short carrier employee will be less compared to long service employee.

Description of funding arrangements and policies

While the payment of gratuity is statutory and provided by the Gratuity Act, there are no statutory minimum funding requirement for gratuity plans in India. However the companies can setup a separate irrevocable trust and start funding for the gratuity liability and avail of tax exemption under the income tax act by this security of gratuity benefits to the employees is ensure.

To prepare this report, actuarial assumptions as agreed by the Company, are used to select a single scenario from the range of possibilities. The results of that single scenario are included in this report. However, the future is uncertain and the plan's actual experience will differ from those assumptions; these differences may be significant or material. In addition, different assumptions or scenarios may also be within the reasonable range and results based on those assumptions would be different. Actuarial assumptions may also be changed from one valuation to the next because of mandated requirements, plan experience, changes in expectations about the future and other factors.

The effects of Morbidity and Withdrawals(Attrition) have been factored by constructing multiple decrement table on assumption of Mortality Table

Basis of Valuation:

All costs, liabilities and other factors under the plan were determined in accordance with generally accepted actuarial principles and procedures.

Valuation Formula:

Consider an employee at 31 Mar 16 to be aged x Years

with Past Service upto 31 Mar 16 - PSERV(x:31/03/16) with Salary at 31 Mar 16 - SAL(x:31/03/16)

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Accordingly Gratuity payable to this employee would be computed as

GRAT(x) = GFxSAL(x:31/03/16)xPSERV(x:31/03/16), where "GF" is a gratuity factor based on scale of benefits.

Accordingly if he leaves 't' years from now, then Gratuity arising out of his service up to now would be increased due to salary escalation during these 't'years. Accordingly gratuity payable would be

 $GRAT(x+t) = GF xSAL(x:31/03/16) x(1+j)^{t}xPSERV(x:31/03/16)$

when j is the rate of increase of salary per year

This gratuity will be payable if he dies in service in year t.

ProbabaleGratuity on death = GRAT(x+t) x Probability of dying during age x+t

Present value of gratuity payable on death during age x+t will be arrived by discounting at rate i for t years.

Accordingly

VGRAT(x+t) = GRAT(x+t) x probability of dying duringage $x+t/(1+i)^t$

= GRAT(x+t) x death factor at age $x+t/(1+i)^t$

where i is the discounting rate,

Where Death

factor = Number people dying during age x+t to X+t+1/ number at age X+t.

Gratuity payable on withdrawal and retirement is similarly worked out.

Accordingly present value of Gratuity payable at age x if one separates during age x+t is

 $VGRAT(x+t) = GRAT(x+t) \times \{Death Factor + withdrawal Factor + Retirement Factor \}/(1+i)^t$

Aggregate of VGRAT(x+t) for ages from x till Retirement Age is therefore, present value of Gratuity payable to that individual - this is expressed as V(x).

Aggregate of V(x) for all individual constitutes the Gratuity liability of the Company.

Accounting Principles:

The benefit expense for the year is made up of:

- the cost of the additional benefits that members accrue during the year based on projected salaries at retirement or earlier termination (current service cost);
- plus interest on the defined benefit obligation (interest cost);
- less the expected return on the assets held by the plan (expected return on plan assets);
- plus or minus the amount required to recognise actuarial losses or gains in accordance with the Company's accounting policy.

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The amount recognized as a net gratuity/pension liability / (asset) in the company balance sheet is:

- the deficit (surplus) in the plan at the balance sheet date
- The amount falling due in the next one year

Current & Non - Current Liabilities.

Regarding funded post-employment benefit obligations, amount due for payment to the fund created for this purpose within twelve months is treated as "current" liability. Regarding the unfunded postemployment benefit obligations, a company will have settlement obligation at the Balance Sheet date or within twelve months for employees such as those who have already resigned or are expected to resign (which is factored for actuarial valuation) or are due for retirement within the next twelve months from the Balance Sheet date. Thus, the amount of obligation attributable to these employees is a current Liability

The liability for an underfunded plan has been classified as a current liability, a non-current liability, or a combination of both.

The current portion (determined on a plan-by-plan basis) is the amount by which the actuarial present value of benefits included in the benefit obligation payable in the next 12 month, or operating cycle if longer, exceeds the fair value of plan assets. The assets for an overfunded plan shall be classified as a non-current asset in a classified statement of financial position.

Decrement adjusted future service:

The Actual future service depends upon the average age of the employees and retirement age. If the average age is 30 and retirement age is 58 then the future service will be 28 yrs. However the expected future service of a given group of employees will be lesser because of attrition, as people leave the company every year. The effective future service will substantially come down because of attrition and effect of mortality. For example if attrition rate is 10% per annum the effective future service will be less than 10. The decrement adjusted future service is the effective future service being the effect of attrition, mortality, retirement age, and average age.

Determination of discount rate:

In India due page no 3

The discount rate is based on decrement adjusted future service. Decrement adjusted future service is equal to term used in the bond rate table, for determining the discount rate.

The Thomson Reuters sample benchmark rates for Indian gilts at 1215 IST (0645 GMT) Thursday follow:

Tenor	Price	Yield
	Range	Range
1 Y	100.40/44	7.078/7.037
5 Y	102.30/32	7.524/7.519
10 Y	100.87/89	7.460/7.458
12 Y	103.38/49	7.827/7.813
15 Y	110.30/70	7.987/7.943
24 Y	103.18/38	7.999/7.981
30 Y	102.35/45	7.921/7.912

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Discontinuance Gratuity:

Discontinuance Gratuity refers to the payment of Gratuity Liability on the valuation Date in case the company discontinues its commercial operations. It is the sum total of gratuity payable to each and every employee including those with less than 5 years service.

GLOSSARY

<u>Actuarial Accrued Liability</u>. The portion of the present value of prospective benefits allocated to service before the valuation date in accordance with the actuarial cost method.

<u>Actuarial Cost Method</u>. Sometimes called "funding method," a particular technique used by actuaries for establishing the amount and incidence of the annual actuarial cost of pension plan benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily, the annual contribution to the plan comprises the normal cost and an amount for amortisation of the unfunded actuarial accrued liability.

<u>Actuarial Gain or Loss</u>. The actuarial loss is the excess of the plan's unfunded actuarial accrued liability on the valuation date over the unfunded actuarial accrued liability that would have resulted had all of the actuarial assumptions been realised. If the actuarial loss is less than zero, it is called an actuarial gain. From one plan year to next, if the experience of the plan differs from that anticipated using the actuarial assumptions, an actuarial gain or loss occurs. For example, an actuarial gain would occur if the plan assets earned 12% for the year while the assumed rate of return used in the valuation was 8%. Other causes of actuarial gains or losses would include changes in actuarial assumptions and / or demographic changes in the population profile.

Actuarial gains & losses can be represented by the changes in the present value of the defined benefit obligation resulting from:

- a) Experience adjustments (the effects of differences between the previous actuarial assumptions and what has actually occurred); and
- b) The effects of changes in actuarial assumptions.

<u>Actuarial Present Value</u>. The current worth (on the valuation date) of an amount or series of amounts payable or receivable in the future. The actuarial present value is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

<u>Adjustment for limit on net asset</u>. A reduction of the net asset that may be necessary in situations where the company is unable to recover a surplus of the plan either through reduced contributions in the future or through refunds from the plan.

Balance Sheet Asset/(Liability) The sponsor's balance sheet asset/(liability) entry, the

Net recognized amount, is the sum of the cumulative excess of contributions to the plan over net Annual Expense and other plan-related charges to income due either to business combination or accelerated recognition. The difference between this account and the Funded Status is the un-recognized net loss/(gain) unvested prior service costs [and net transition obligation.]

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<u>Current Service Cost.</u>(component of expense). The actuarial present value of benefits attributed by the gratuity/pension benefit formula to services rendered by employees during that period based on assumptions as to future compensation levels. The interest rate used in determining the present value is the discount rate.

<u>Curtailment</u>. An event that significantly reduces the expected years of future service of present employees or eliminates for a significant number of employees the accrual of defined benefits for some or all of their future services.

Deficit or surplus. The excess of the present value of the obligation over plan assets.

<u>Discount Rate.</u> Also referred to as the "settlement rate," the discount rate represents the employer's estimate (as of the valuation date) of the interest rate at which pension benefits could be effectively settled. Assumed discount rates are used in the measurement of the present value of the obligation.

<u>Expected Return on Assets</u>. The expected return on plan assets over the accounting period, based on an assumed rate of return

<u>Expected Long-Term Rate of Return on Plan Assets.</u> An assumption as to the rate of return on plan assets reflecting the average rate of earnings expected on the funds invested or to be invested to provide for the benefits included in the projected benefit obligation. This assumption is used to determine the expected return on assets for purposes of IAS 19 pension expense.

Expense recognized in balance sheet. The amount recognised in an employer's financial statements as the cost of a pension plan for a period, pursuant to **IAS 19**. Components of expense are current service cost, interest cost, expected return on plan assets, amortisation of unrecognised past service cost, amortisation of the unrecognised transition amount, amortisation of gains and losses, along with settlement and curtailment charges (if any).

<u>Fair value of plan assets</u>. The assets out of which the obligations have to be settled, measured at their market value.

Funded Status. This is the excess/(shortfall) of the fair value of plan assets over the Plan Liability.

<u>Interest Cost</u>(component of net periodic Gratuity/Pension cost). The increase in the present value of obligation due to passage of time or The increase in the Plan liability over the accounting period due to interest (the time value of money)

<u>Net Periodic Benefit Cost</u>. This is the profit and loss charge for the accounting period, *under* IAS 19 ASC 715-30 and comprises the sum of the service and net interest costs, plus amortized actuarial gain /Loss.

Amount recorded in Other Comprehensive Income:

The total amount of remeasurement items and impact of liabilities assumed or settled, if any which is recorded in Other Comprehensive Income (OCI) during the period outside of the profit &Loss.

<u>Past Service Cost</u>. Plan amendments often include provisions that grant increased benefits based on services rendered in prior periods. These provisions give rise to past service costs.

<u>Plan Liability</u>. This quantity is the discounted present value of all benefits attributed by the plan's benefit formula to service rendered prior to the measurement date. It is measured using an assumption as to future pay levels.

<u>Present Value.</u> Sometimes called "actuarial present value," the current worth (on the valuation date) of an amount or series of amounts payable or receivable in the future. The present value is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

<u>Present value of the Obligation</u>. The actuarial present value as of a date of all benefits attributed by the pension benefit formula to employee service rendered before that date. The Present value of obligation is defined in AS 15 and is measured based on the discount rate and other assumptions used for accounting disclosure purposes. The present value of the obligation is measured using assumptions as to future compensation levels and increases in maximum benefit limitations (if applicable). The interest rate used in determining the present value is the discount rate.

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<u>Service Cost.</u> This is the discounted present value of benefits attributed by the plan's benefit formula to services rendered by employees during the accounting period. It is measured using an assumption as to future pay levels.

<u>Settlement</u>. A transaction that is irrevocable relieves the employer (or the plan) of primary responsibility for a pension benefit obligation and eliminates significant risks related to the obligation and the assets used to effect the settlement. The purchase of non-participating annuities or the payment of significant lump-sum payments to plan participants might constitute a settlement.

<u>Termination Benefits</u>. Benefits provided to employees in connection with their termination of employment at a specific time or under certain prescribed circumstances

<u>Unrecognized Net Gain or Loss</u>. The cumulative net gain or loss that has not been recognised as a part of net periodic pension cost.

<u>Unrecognised Past Service Cost.</u> That portion of past service cost that has not yet been recognised as part of expense is unrecognised past service cost.

ENDS.

