STOCK OPTION VALUATION REPORT

OF

CITY UNION BANK LIMITED

Done by

M.ALAGAR

Registered Valuer

IBBI Registration No. IBBI/RV/03/2018/10227 No.21-B, 1st Floor, ARK Colony, Eldams Road, Alwarpet, Chennai 600018 M: 9003199947



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τ. TERMS OF REFERENCE

- a) "City Union Bank Limited (hereinafter referred as "the Bank" or "the Client") has implemented an Employee Stock Option Scheme called 'CUB ESOS 2008' and vide Nomination and Remuneration Committee has granted 46,09,500 stock options to its eligible employees on December 15, 2018 during the year 2018-19, which would entitle the option holders to acquire equity shares under the ESOS scheme as per the terms and conditions laid down thereunder.
- b) For the purpose of disclosure of diluted earnings and disclosure of difference in employee compensation cost using "Intrinsic Value" method and "The Fair Value" method in the Company's Directors Report for the year ending March 31, 2019 as per SEBI (Share Based Employee Benefits) Regulations, 2014, the Bank has appointed me vide engagement letter dated May 30, 2019 for valuation of stock options issued during the year 2018-19.

II. **INFORMATION RELIED UPON BY US**

- a) We have prepared our Valuation Report on the basis of the following information:
 - i. A detailed note on the options scheme "CUB ESOS 2008" provided to us by the Bank
 - ii. Historical financials provided to us by the bank.
 - iii. Bank Website.
 - iv. Stock Price (on the NSE) performance over the last 1 year one day preceding the date of grand.
 - v. Yield on the Government of India (GOI) notes.
 - vi. Option adjustment report issued Karvy Investor Services Limited dated November 01, 2018 for adjusting price and additional entitlement of shares pursuant to bonus issue.
 - vii. Details of stock options outstanding provided by the Bank.
 - viii. Copy of Nomination and Remuneration Committee resolution dated December 15, 2018 issuing stock options to the employees.
 - ix. Discussions with and explanations given by the management / senior executives of City Union Bank on various issues



III. METHODS OF VALUATION

There are two principal methods for valuing options:

- a) Black-Scholes Model
- b) Binomial Model

Each of the above two methods has its suitability, depending upon the facts of the case and the objectives of the valuation. However, for the purpose of ready reference, these methods are explained below in brief.

a) Black-Scholes Model

The Black-Scholes model is a single formula with six fixed input factors that computes an estimate of an option's fair value. The factors are, Exercise Price of the option, Market Price of the underlying share on the date of issue, Expected Term of the option, Expected Volatility of the price of the underlying share for the expected term of the option, Expected dividends on the underlying share for the expected term of the option and Risk-free interest rate for the expected term of the option

It assumes that option exercises occur at the end of an option's contractual term, and that expected volatility, expected dividends, and risk-free interest rates are constant over the option's term.

Binomial Model b)

The Binomial Model incorporates multiple and variable assumptions of expected volatility and dividends over the option's contractual term, and estimates of expected option exercise patterns during the option's contractual term, including the effect of blackout periods.

The design of the binomial model requires more inputs and judgments to be made by management, but may more fully reflect the substantive characteristics of a particular employee share option or similar instrument.

The binomial model also requires extensive calculations, which require very complex computer-based models.

The Binomial model is both time-consuming and costly. Many public companies find it difficult to perform binomial calculations without external assistance and many do not have the required data, at least initially, needed for inputs into a binomial model. Hence many companies choose the Black-Scholes model as it easy to use and less time consuming. Owing to its inherent benefits we have used the Black-Scholes model to value the options of City Union Bank.



METHOD ADOPTED FOR VALUATION OF STOCK OPTIONS IV.

I have adopted Black-Scholes Model to arrive fair value of stock options granted during the year 2018-19 using the following formula and based on following assumptions;

Formula:

 $C = \eta(SN(\eta d1)e^{-qt} - Ke^{-rt}N(\eta d2)$

Where,

C = theoretical value of an option

S = price of the underlying

K = exercise price

t = time to expiration in years

 σ = annual volatility in percent

r = risk free interest rate

q = continuous dividend yield

e = base of the natural logarithm

In = natural logarithm

N(x) = cumulative normal distribution function

N'(x) = normal density function

η = positive one for call options and negative one for put options

$$d1 = \frac{\ln(S/K) + ((r-q) + 1/2 \sigma^2)t}{\sigma\sqrt{t}}$$
$$d2 = d1 - \sigma\sqrt{t}$$

Assumptions & Values

- i. Risk Free Rate Yield on the appropriate period Government Securities has been considered as the risk-free rate as on date of grant.
- ii. Expected Volatility Standard Deviation of the stock returns of City union Bank over the trailing one year period from the date of grant of options has been considered.
- iii. Expected Dividend Based on the last annual dividend payout by the Bank



V. **VALUATION OF OPTIONS**

a. During the financial year 2018-19, the Bank has granted stock options to its employees under ESOS 2008 as detained below;

| Particulars | ESOS 2008 |
|------------------------------------------------|-------------------|
| Date of Grant | December 15, 2018 |
| No. of Options Granted | 46,09,500 |
| Vesting Period | 5 Years |
| Exercise Price | Rs.179.00 |
| Market Price at the time of grant | Rs.179.00 |
| Expected Life | 5 Years |
| Risk Free Rate* | 7.35% |
| Expected Dividend (annualized) | 0.17% |
| Annualized Standard Deviation (Stock Variance) | 5% |

^{*}Source: www.marketwatch.com

b. We hereby certify that fair value of options granted during the financial year 2018-19 are as follows;

| Particulars | ESOS 2008 |
|----------------------------|---------------------|
| Fair value of option | Rs.53.56 per option |
| *Intrinsic Value of option | Rs.0.00 per option |

^{*}Difference between market price and grant price at the time of grant.

VI. **NOTICE**

- a. This Report is furnished solely for purpose of disclosure of diluted earnings and disclosure of difference in employee compensation cost using "Intrinsic Value" method and "The Fair Value" method in the Company's Directors Report for the year ending March 31, 2019 as per SEBI (Share Based Employee Benefits) Regulations, 2014.
- b. The Bank shall not use this report for any other purpose other than stated above.



- c. The report is to be read in totality, and not in parts, in conjunction with the relevant documents referred to herein.
- d. My work does not constitute an audit or certification of the subject Bank's financial. Accordingly, I am unable to and do not express any opinion on the accuracy of information referred to in this report. I assume no responsibility for any errors in the information submitted by the management and their impact on the present exercise.
- e. This valuation report is issued on the understanding that the Bank has drawn my attention to all the relevant matters, of which it was aware, concerning the Bank's financial projection and business which may have an impact on my Report.

Thanking you,

Yours faithfully

M. Alagar

Registered Valuer

M. No. IBBI/RV/03/2018/10227

Date: June 04, 2019

Place: Chennai

M. ALAGAR B.Com., FCS., LLB

Company Secretary, Registered Valuer & Insolvency Professional

M.ALAGAR & ASSOCIATES

Practising Company Secretaries

ANNEXURE I

City Union Bank Limited Stock Options - Computation of employees compensation cost for FY 2018-19

| Computation of | | profits of th | e Company | / - ESOS 200 | 8 - FY 18-19 | | |
|---------------------------------------|-----------------------|---------------|--------------|--------------|---------------------|-----------|-----------------------------------------|
| Date of grant | 06.12.08 | 25.05.10 | 05.10.10 | 29.07.13 | 24.01.15 | 21.09.15 | 15.12.18 |
| No of options granted in force as on | | | | | | | |
| 01.04.2018 | 0 | 9979 | 131522 | 1256172 | 6044644 | 1296241 | C |
| Add: Options granted during the | | | | | | | |
| year due to corporate action | 0 | 0 | 6141 | 115473 | 558431 | 119702 | 4609500 |
| | | | | | | | |
| Less: Options Lapsed during the year | 0 | 9979 | 11934 | 30223 | 213683 | 14190 | C |
| | 010101037,10110101010 | | | | The second second | | |
| Options granted (net of employee | | | | | | 7 20 20 | |
| separation) as on 31.03.2019 (A) | 0 | 0 | 125729 | 1341422 | 6389392 | 1401753 | 5E+06 |
| Less: Options exercised during the | 1 | | | | | | 100000000000000000000000000000000000000 |
| year | 0 | 0 | 125729 | 927570 | 1898154 | 284888 | (|
| Options Outstanding as on | latin singer | With 17112 | | | Mighton | A SECTION | 100 |
| 31.03.2019 | 0 | 0 | 0 | 413852 | 4491238 | 1116865 | 5E+06 |
| Vesting Period | | 5 | Years - 15% | , 15%, 15%, | , 25% and 30 |)% | |
| Market Price at the time of grant (B) | 13.00 | 32.00 | 47.00 | 46.95 | 93.2 | 88.05 | 179.00 |
| Exercise Price (C) | 13.00 | 32.00 | 47.00 | 46.95 | 93.2 | 88.05 | |
| Intrinsic Value (B-C=D) | | 32.00 | | 46.95 | 95.2 | 0 0 | 179.00 |
| intrinsic value (b-C=D) | 0 | U | 0 | U | U | 0 | (|
| Fair value of stock options (as per | | | | | | | |
| Black-Scholes - Model (E) | 10.71 | 6.95 | 12.15 | 9.88 | 29.99 | 22.83 | 53.56 |
| | Compensa | | | | | | 12 MU 50 |
| | | | | | | | |
| Amortised ECC for FY 18-19, over | | | | | | | |
| relevant vesting period | 0 | 0 | 0 | 0 | 0 | 0 | (|
| Less: Credit provided for lapsed | | | | | | | |
| options | 0 | 0 | 0 | 0 | 0 | 0 | (|
| Net impact on profits, for FY 18-19 | 0 | 0 | 0 | 0 | 0 | 0 | (|
| Total impact on profits, for FY 18-19 | | | | 0 | | | |
| | ee Compen | sation Cost | using Fair \ | | tion | | |
| | | | | | | | |
| Amortised ECC for FY 18-19, over | | | | | 5748536 | | |
| relevant vesting period | 0 | 0 | 0 | 0 | 0 | 8000505 | (|
| Less: Credit provided for lapsed | | | | | | | |
| options | 0 | 69354 | 144998 | 298603 | 4485847 | 145781 | (|
| Net Impact to the profits for FY 18- | | | | | 5299951 | | |
| 19 | 0 | -69354 | -144998 | -298603 | 3 | 7854724 | (|
| Total impost an an fit for FV 60.40 | | | | C02442C4 | | | |
| Total impact on profits, for FY 18-19 | CONTRACTOR OF | | | 60341281 | | | |

^{*4609500} was granted by NRC vide resolution dated December 15, 2018 to the eligible employees

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ANNEXURE II

City Union Bank Limited Stock Options - Computation of Weighted Average Information FY 2018-19

| Date of Grant | 06.12.08 | 25.05.10 | 05.10.10 | 20.07.12 | 24 04 45 | 24 00 45 | 45.40.40 |
|-----------------------------------------------|-----------|---------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------|
| Total number of options | 06.12.08 | 25.05.10 | 05.10.10 | 29.07.13 | 24.01.15 | 21.09.15 | 15.12.18 |
| granted (Including | | | | | | | |
| additional grant upon | | | | | | | |
| rights issue & bonus | | | | | | | |
| issue) | 22781250 | 370071 | 3168056 | 4678936 | 10945549 | 1755378 | 4609500 |
| Less: Options lapsed | ZZ/GZZGG | 370071 | 3100030 | 4070330 | 10545545 | 1755576 | 4003300 |
| (Cumulative for all years) | 1930342 | 87771 | 911007 | 1027608 | 1418428 | 66615 | C |
| Less: Options exercised | | 01172 | 311007 | 102,000 | 2 120 120 | 00015 | |
| (Cumulative for all years) | 20850908 | 282300 | 2257049 | 3237476 | 5035883 | 571898 | C |
| Total Options | | | THE STREET | | | | |
| outstanding as on | | | | | Att Contract | PIE ROLL | |
| 31.03.2019 | 0 | 0 | 0 | 413852 | 4491238 | 1116865 | 4609500 |
| Cumulative Options | | | | 123032 | 7102230 | 1110003 | 4003300 |
| outstanding | | | | 1063145 | 55 | | |
| Market Price as on date | 13.00 | 32.00 | 47.00 | 46.95 | 93.2 | 88.05 | 179.00 |
| prior to the date of grant | | | | , , , , , | " | 33.03 | 1,5,66 |
| Weighted Avg Market | | | | The same of the sa | | | |
| Price | | | | 128.06 | | | |
| Exercise price as on date | | | | | | | |
| of grant | 13.00 | 32.00 | 47.00 | 46.95 | 93.20 | 88.05 | 179.00 |
| 5 - 6 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | 20.00 | 32.00 | 17.00 | 40.55 | 41858338 | 98339963.2 | 82510050 |
| Weighted Exercise Price | 0 | 0 | 0 | 19430351 | 2 | 5 | 02310030 |
| Cumulative Weighted | | | | | | | |
| Exercise Price | | | | 13614541 | .96 | | |
| Weighted Avg Exercise | | 3517 TAKE | | | Save and the | | |
| Price | | | | 128.06 | | | |
| *Risk free interest rate | | | | | | | |
| (%) | 4.51 | 7.20 | 7.20 | 7.44 | 7.8 | 7.7 | 7.35 |
| Weighted Avg Risk Free | | | THE WE AV | | | | |
| Interest Rate | | Carles Land | | 7.58 | | | |
| **Expected stock | | | | | 4 | | |
| volatility, based on | | | | | | | |
| historical deviation (%) | 0.035 | 0.0195 | 0.040 | 0.0035 | 0.0438 | 0.0036 | 0.0022 |
| Weighted Avg Stock | Storm Age | | | | | | |
| Volatility | | | | 0.0200 | | | |
| Fair Value as on date of | | | | | | | |
| grant (in Rs) | 10.71 | 6.95 | 12.15 | 9.88 | 29.99 | 22.83 | 53.56 |
| | | | | | 13469222 | 25498027.9 | 24688482 |
| Wieghts | 0 | 0 | 0 | 4088857.8 | 8 | 5 | C |
| Cumulative Weights | 411163933 | | | | | | |
| | | | | | | | |
| Weighted Avg Fair Value | | STUDY AND THE | | 38.67 | | | |

^{*5} years G. Sec rate at time of every grant of stock options

^{**}Expected stock volatility, based one year share price movement preceding every grant



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ANNEXURE TO DIRECTOR'S REPORT

The Shareholders of the City Union Bank Ltd. ("the Bank") had approved the Employees Stock Options Scheme at the Extraordinary General Meeting held on April 26, 2008. As per the Scheme, a total of 5,00,00,000 stock options were available for grant to the eligible employees of the Bank, through Primary Source.

The vested options are exercisable over a period of 5 years from the respective dates of vesting. Further, Nomination and Remuneration Committee of the Bank vide its resolution dated 15 December 2018, considered and approved fresh grant of Employee stock options under CUB ESOS Scheme 2008 - Series VII, to the eligible employees of the Bank as detailed hereunder.

| Particulars | ESOS 2008 | | | | | | | |
|----------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------|-----------------|----------------|--|
| | Series I | Series II | Series III | Series IV | Series V | Series VI | Series VII | |
| Total number of options granted (Including additional grant upon rights & bonus issue) | 2,27,81,250 | 3,70,071 | 31,68,056 | 46,78,936 | 1,09,45,549 | 17,55,378 | 46,09,500 | |
| Pricing Formula | Rs. 13.00 | Rs. 32.00 | Rs. 47.00 | Rs. 46.95 | Rs. 93.20 | Rs. 88.05 | Rs.179.00 | |
| Revised price due to rights & bonus issue | Rs.10.55 | Rs.26.91 | Rs.34.38 | Rs.38.80 | Rs.7,7.03 | Rs.72.77 | 21127 | |
| No of options outstanding as on 01.04.2018 | 0 | 9,979 | 1,31,522 | 12,56,172 | 60,44,644 | 12,96,241 | 0 | |
| No of additional options granted pursuant to Bonus Issue during the year | 0 | 0 | 6,141 | 1,15,473 | 5,58,431 | 1,19,702 | 0 | |
| No. of fresh options granted during the year | 0 | 0 | 0 | 0 | 0 | 0 | 46,09,500 | |
| No of options lapsed during the year | 0 | 9,979 | 11,934 | 30,223 | 2,13,683 | 14,190 | 0 | |
| No of options exercised during the year | 0 | 0 | 1,25,729 | 9,27,570 | 18,98,154 | 2,84,888 | 0 | |
| No of shares arising as a result of exercise of option during the year | 0 | 0 | 1,25,729 | 9,27,570 | 18,98,154 | 2,84,888 | 0 | |
| Variation in terms of Options | Not Applicable | | | | | | | |
| Vesting Period | 1 st year | 1 st year - 15%, 2 nd year - 15%, 3 rd year - 15%, 4 th year - 25% and 5 th year - 30%. | | | | | | |
| Money realized by exercise of Options during the year | 0 | 0 | 104,99,24 8 | 390,98,33 7 | 18,61,83,92 3 | 1,33,49,8 58 | 0 | |
| Loan repaid by the Trust during the year from the exercise price received | | | N | lot applicable | e | ALA | GAA HBBII # | |

| Total Number of Options outstanding at the end of the year 31.03.2019 | 0 | 0 | 0 | 4,13,852 | 44,91,238 | 11,16,865 | 46,09,500 | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|------|----------|----------------|-----------|-----------|--|--|
| Employee wise details of Options granted | | | | | | | | | |
| i) Senior Management Personnel | | | | NiL | | | | | |
| ii) Any other employee who received a grant in any one year of the options amounting to 5% or more of the options granted during the year | | NIL | | | | | | | |
| iii) Identified employees who were granted options during any one year equal to or exceeding 1% of the issued capital (excluding outstanding warrants and conversions) of the Bank at the time of grant | | | | NIL | | | | | |
| Allotment of shares made during the Financial Year under | | | | | | | | | |
| Employee wise details of the shares allotted to | | | | | | | | | |
| i) Senior Managerial Personnel | | | | | | | | | |
| Shri. R Venkatasubramanian | 18:1 | 3 | #4 | - | 16,500 | X=: | w | | |
| Shri. K P Sridhar | _ | | 560 | Ξ. | 9,075 | :## | S21 | | |
| Shri. V Ramesh | | <i>#</i> | | | 1,650 | 1,650 | ·+: | | |
| Shri. K Maharajan | (a) | 1941 | in . | <u> </u> | . . | 1,815 | | | |
| Shri. K Jayaraman | | . w); | | ÷ | 7,425 | 921 | 141 | | |
| Shri. V Gopalakrishnan | • | - | - | | 1,560 | | : •• (| | |
| Shri. G Sankaran | 54 22 | *: | 4 | 12 | 5,775 | | Ъ. | | |
| Shri. R K | | * | - | | Del | 1,815 | (#) | | |
| Lakshminarayanan | | | | | - | _,525 | | | |
| Shri. J Sridharan | ær | | * | # | 1,650 | 3,630 | 720 | | |
| Shri. V Ganesan | * | ¥ | - | #: | 6,930 | 5,556 | | | |
| Shri. S Ramesh | *** | | = | | 13,310 | | | | |
| Shri. R Subramanian | - | * | * | - | 13,310 | 1,815 | | | |
| | | | | - | | 1,013 | | | |

| ii) Any other employee who received a grant in | |
|---------------------------------------------------|-------|
| any one year of the | |
| | NIII. |
| options amounting to | NIL |
| 5% or more of the | |
| options granted during | |
| the year | |
| iii) Identified employees | |
| who were granted | |
| options during any one | |
| year equal to or | |
| exceeding 1% of the | NIL |
| issued capital (excluding | INIL |
| outstanding warrants | |
| and conversions) of the | |
| Bank | |
| at the time of grant | |

Employee compensation cost calculated as per the intrinsic value method for the financial year 2018- 19 is NIL. If the Employee compensation cost was calculated as per fair value method as prescribed under SEBI (Share Based Employee Benefits) Regulations, 2014, the total cost to be recognized in the financial statement for the Financial Year 2018-19 would be Rs. 6,03,41,281/-. Consequently, net profit would have been reduced by Rs. 6,03,41,281/-and EPS would have been reduced by Re. 0.082 per share.

Weighted Average Details

| Weighted Avg Market Price (In Rs.) | 128.06 |
|---------------------------------------------|--------|
| Weighted Avg Exercise Price (In Rs.) | 128.06 |
| Weighted Avg Risk Free Interest Rate (%) | 7.58 |
| Weighted Avg Stock Volatility | 0.022 |
| Weighted Avg Fair Value of Options (In Rs.) | 38.67 |

The Company has adopted Black-Scholes model to arrive value of options granted under ESOS 2008 based on the following assumptions.

- 1. Risk Free Rate Yield on the appropriate period Government Securities has been considered as the risk-free rate.
- 2. Expected Volatility Standard Deviation of the stock returns of City Union Bank over the trailing one year period prior to the date of grant of options has been considered.
- 3. Expected Dividend Based on the last dividend pay-out by the Bank.

