

Request for Proposal (RFP)
For
Selection of vendor for Implementation of Indian
Accounting standards (Ind-AS)



UCO BANK
Head Office-2
Department of Information Technology
7th Floor, 3 & 4 DD Block, Sector -1
Salt Lake, Kolkata-700 064

RFP REF NO: DIT/BPR & BTD/OA/3816/2018-19 Date: 31/12/2018

The information provided by the bidders in response to this RFP Document will become the property of the Bank and will not be returned. The Bank reserves the right to amend, rescind or reissue this RFP Document and all amendments will be advised to the bidders and such amendments will be binding on them. The Bank also reserves its right to accept or reject any or all the responses to this RFP Document without assigning any reason whatsoever.

This document is prepared by UCO Bank for Selection of vendor for Implementation of Indian Accounting standards (Ind-AS)". It should not be reused or copied or used either partially or fully in any form.

Disclaimer

While the document has been prepared in good faith, no representation or warranty, express or implied, is or will be made, and no responsibility or liability will be accepted by UCO Bank or any of its employees, in relation to the accuracy or completeness of this document and any liability thereof expressly disclaimed. The RFP is not an offer by UCO Bank, but an invitation for bidder's responses. No contractual obligation on behalf of UCO Bank, whatsoever, shall arise from the offer process unless and until a formal contract is signed and executed by duly authorized officials of UCO Bank and the Bidder.



CONTENTS

SI.NO.	TABLE OF CONTENTS	PAGE NO.
1	INTRODUCTION & OBJECTIVES	6
2	ABBREVIATION	7
3	CONTROL SHEET TABLE	9
4	PART-1: GENERAL TERMS & CONDITIONS	10
5	SUBMISSION OF OFFER- THREE BID SYSTEM	11
6	COST OF TENDER DOCUMENTS	15
7	EARNEST MONEY DEPOSIT	15
8	REJECTION OF THE BID	17
9	PRE BID MEETING	18
10	MODIFICATION & WITHDRAWAL OF BIDS	18
11	INTRODUCTION & DISCLAIMER	18
12	INFORMATION PROVIDED	18
13	FOR RESPONDENT ONLY	18
14	CONFIDENTIALITY	19
15	DISCLAIMER	19
16	COST BORNE BY RESPONDENTS	19
17	NO LEGAL RELATIONSHIP	19
18	ERRORS & OMISSIONS	19
19	ACCEPTANCE OF TERMS	20
20	RFP RESPONSE	20
21	RFP RESPONSE VALIDITY PERIOD	20
22	NOTIFICATION	20
23	LANGUAGE OF BIDS	20
24	NORMALISATION OF BIDS	20
25	CANCELLATION OF TENDER PROCESS	21
26	AUTHORISED SIGNATORY	21
27	DELIVERY, INSTALLATION & COMMISSIONING	22
28	PART-II ELIGIBILITY CRITERIA	22
29	PART-III EVALUATION CRITERIA	24
30	EVALUATION METHODOLOGY	25
31	TECHNICAL EVALUATION PROCESS	25
32	COMMERCIAL EVALUATION PROCESS	25
33	PART-IV SCOPE OF WORK	26
34	SOLUTION SPECIFICATIONS / FUNCTIONAL REQUIREMENT	27
35	FACILITY MANAGEMENT SERVICES	53
36	CONTRACT PERIOD	54

37	PERFORMANCE BANK GUARANTEE	55
38	PAYMENT TERMS	55
39	PAYING AUTHORITY	56
40	WARRANTY	56
41	PENALTY	56
42	PENALTIES & SERVICE LEVEL AGREEMENT	57
43	OEM AUTHORIZATION	58
44	ADHERENCE OF CYBER SECURITY POLICY	58
45	PATENT RIGHTS	59
46	PRICE	60
47	LIQUIDATED DAMAGE	61
48	INSURANCE	61
49	FORCE MAJEURE	61
50	OTHER TERMS AND CONDITIONS OF THE RFP	62
51	COMPLETENESS OF THE PROJECT	64
52	INDEPENDENT SERVICE PROVIDER	64
53	INDEMNITY	65
54	PUBLICITY	67
55	COMPLIANCE TO LABOUR ACT	67
56	PRIVACY & SECURITY SAFEGUARDS	67
57	TECHNOLOGICAL ADVANCEMENTS	67
58	GUARANTEES	68
59	DISPUTE RESOLUTION MECHANISM	68
60	EXIT OPTION AND CONTRACT RE-NEGOTIATION	69
32	CORRUPT AND FRAUDULENT PRACTICES	70
33	TERMINATION	70
34	EFFECT OF TERMINATION	71
35	COMPLIANCE	72
36	APPLICABLE LAW & JURISDICTION OF COURT	72
37	ADOPTION OF INTEGRITY PACT	72
38	NON DISCLOSURE	73
39	ISSUE OF CORRIGENDUM	74
40	ANNEXURE-I	75
41	ANNEXURE-II	77
42	ANNEXURE-III	78
43	ANNEXURE-IV	81
44	ANNEXURE-V	83
45	ANNEXURE-VI	84
46	ANNEXURE-VII	86
47	ANNEXURE-VIII	90

48	ANNEXURE-IX	91
49	ANNEXURE-X	92
50	ANNEXURE-XI	93
51	ANNEXURE-XII	122
52	ANNEXURE-XIII	125
53	ANNEXURE-XIV	126
54	ANNEXURE-XV	128
55	ANNEXURE-XVI	129
56	ANNEXURE-XVII	130
57	ANNEXURE-XVIII	133
58	ANNEXURE-XIX	134
59	ANNEXURE-XX	135
60	ANNEXURE-XXI	136
61	ANNEXURE-XXII	142



INTRODUCTION & OBJECTIVES

UCO BANK, a body Corporate, established under The Banking Companies (Acquisition and Transfer of Undertakings) Act 1970, having its Head Office at 10, B.T.M. Sarani, Kolkata- 700001, India, hereinafter called "The Bank", is one of the leading public sector Banks in India having 3000+ Domestic branches, two overseas branches and 2500+ ATMs spread all over the country. All the branches of the Bank are CBS enabled through Finacle as a Core Banking Solution.

Bank is planning to comply with the Indian Accounting Standards (Ind-AS) for financial statements for accounting. The objective of implementing Ind-AS is to comply with reporting requirements (for placing all the requirements including technological changes), migration of Bank, its subsidiary, JV and Associate to Ind-AS as per Standards notified by MCA / ICAI and RBI / SEBI / and any other statutory regulatory body as and when issued.



Abbreviations

The long form of some abbreviations commonly used in the document is given below

Abbreviations	Description
ARE	Accounting Rule Engine
ARO	Asset Retirement obligation
CCF	Credit Conversion Factor
CVA	Credit Value Adjustment
DPD	Days Past Due
DSB	Department of Supervision by Banks
DVA	Debit Value Adjustment
EAD	Exposure at Default
ECL	Expected Credit Loss
ECR	Error Correction Model
EDW	Enterprise Data Warehouse
EIR	Effective Interest Rate
EMI	Equated Monthly Instalments
ETL	Extract, Transform and Load
FIFO	First in First Out
FIRB	Foundation Internal Rating Based Approach
FVOCI	Fair Value through Other Comprehensive Income
FVTPL	Fair value through Profit and Loss account
GDP	Gross Domestic Product
GL	General Ledger
ICAI	Institute of Chartered Accountant of India
IFRS	International Financial Reporting Standard
Ind AS	Indian Accounting Standard
IRB	Internal Rating Based
IRR	Internal Rate of Return
IRS	Interest Rate Sensitivity
LAS	Lending Automation System
LGD	Loss Given Default
LOB	Line Of Business
LTV	Loan to Value
MCA	Ministry of Corporate Affairs
MDM	Mobile Device Management
MOC	Memorandum of Change
MTM	Mark to Market
NPA	Non-Performing Asset

NSIC	National Small Industries Corporation
OSD	Original Software Developer
OSMOS	Offsite Monitoring and Surveillance
PD	Probability of Default
PIT	Point in Time
POCI	Purchased or Originated Credit Impaired Financial Assets
RWA	Risk Weighted Assets
SBU	Strategic Business Unit
SEBI	Securities and Exchange Board of India
SICR	Significant Increase in Credit Risk
SMA	Special Mention Accounts
SPPI	Solely for the purpose of Principal and Interest
TTC	Through the Cycle
UAT	Users Acceptance Test
UGD	Usage Given Default
VAPT	Vulnerability Assessment and Penetration Test
VAR	Vector Auto Regression



CONTROL SHEET TABLE

Tender Reference	DIT/BPR & BTD/OA/3816/2018-19 Date: 31/12/2018
Cost of Tender Documents	Rs. 30,000 (Rupees Thirty Thousand Only)
Date of issue of RFP	31/12/2018
Earnest Money Deposit (EMD)	Rs. 20,00,000 /- (BG)(Rupees Twenty Lakhs Only)
Date of Commencement of Sale of Tender Document	31/12/2018
Pre Bid queries to be received only online at-hodit.calcutta@ucobank.co.in	On or before 07/01/2019 up to 04:00 PM
Pre bid Meeting and Venue	10/01/2019 at 11.30 AM at below mentioned address: UCO BANK, Head Office-2 Department of Information Technology, 5 th Floor, "Conference Room",3 & 4 DD Block, Sector -1, Salt Lake, Kolkata-700 064
Last Date and Time for receipts of tender bids	24/01/2019 at 03.00 PM
Opening of Technical Bids	24/01/2019 at 03.30 PM
Opening of Commercial Bid	Will be informed subsequently to eligible & technically qualified bidders.
Address of Communication	UCO BANK, Head Office-2 Department of Information Technology 7 th Floor,3 & 4 DD Block, Sector -1, Salt Lake, Kolkata-700 064
Email address	hodit.calcutta@ucobank.co.in
Contact Telephone/Fax Numbers	Tel : 033-44559775/9770
Contact Person	Mr Ravi Shankar Pathak Chief Manager (IT)
Bids to be submitted	Tender box placed at: UCO BANK, Head Office-2 Department of Information Technology 5 th Floor,3 & 4 DD Block, Sector -1, Salt Lake, Kolkata-700 064

Note: Bids will be opened in presence of the bidders' representatives (maximum two representatives per bidder) who choose to attend. In case the specified date of submission & opening of Bids is declared a holiday in West Bengal under the NI act, the bids will be received till the specified time on next working day and will be opened at 3:30 p.m.

1.1 UCO Bank invites sealed tenders comprising of eligibility, Technical bid and Commercial bid from experienced prospective bidders having proven capabilities of providing solution for Implementation of Indian Accounting standards (Ind-AS). The prospective bidders are required to adhere to the terms of this RFP document and any deviations to the same shall not to be acceptable to UCO Bank.

The bidder (also called the vendor or bidder through this document) appointed under the RFP document shall own the single point responsibility for fulfilling all obligations and providing all deliverables and services required for successful implementation of the project. Unless agreed to specifically by the Bank in writing for any changes in the document issued, the bidder responses should comply with the scope of work.

Unless expressly overridden by the specific agreement to be entered into between the Bank and the bidder, the RFP document shall be the governing document for arrangement between the Bank and the prospective bidder in terms of this RFP documents.

The RFP document may be downloaded from our website www.ucobank.com . The bidders downloading the document from Bank's website www.ucobank.com must pay the cost of the document (through demand draft), in a separate cover and properly super scribed, at the time of submission of the bids.

Any bid received after last date and time of the receipt of bids prescribed as mentioned above, will not be accepted by the Bank.

Bidders are requested to participate in the tender process according to the time schedule mentioned above.

The eligibility bid will be opened first and only those bidders, deemed eligible as per the eligibility criteria mentioned in this RFP, will be shortlisted for technical evaluation; the qualified bidders will be notified separately. Commercial Bid of only those short-listed-bidders, who have qualified in Technical evaluation, will be opened by the Bank, the date of which will be notified separately.

The Bids should be addressed to:

Deputy General Manager (DIT, BPR & BTD)
UCO Bank, Head Office-2
Department of Information Technology,
5th Floor, 3 & 4 DD Block, Sector -1,
Salt Lake, Kolkata - 700 064

UCO Bank is not responsible for non-receipt of response to RFP within the specified date and time due to any reason including postal holidays or delays. In case the specified date of submission & opening of Bids is declared holiday in West Bengal under NI Act, the bids will be received till the specified time on next working day and Technical Bid will be opened at same time on that day.

Bids once submitted will be treated as final and no further correspondence will be entertained on this. No bid will be modified after the target date & time for submission of bids. No bidder shall be allowed to withdraw the bid.

1.2 SUBMISSION OF OFFER- THREE BID SYSTEM

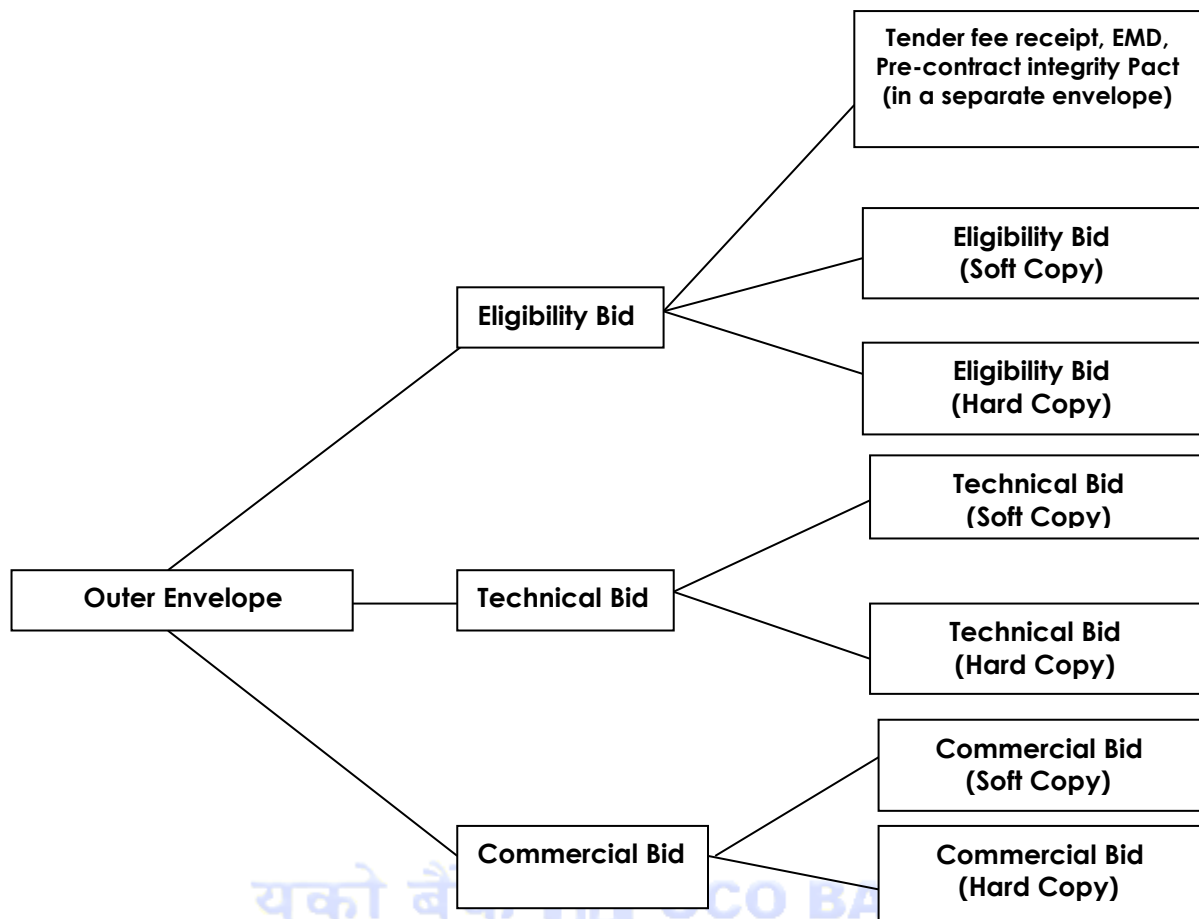
Separate Eligibility, Technical and Commercial Bids along with soft copies duly sealed and super-scribed as - procurement of solution for Implementation of Indian Accounting standards (Ind-AS) (Eligibility Bid), --procurement of solution for Implementation of Indian Accounting standards (Ind-AS) (Technical Bid) and -- procurement of solution for Implementation of Indian Accounting standards (Ind-AS) (Commercial Bid) respectively should be put in a single sealed outer cover duly sealed and super-scribed as- "procurement of solution for Implementation of Indian Accounting standards (Ind-AS)" as per the below mentioned diagram and as per bid details given in the RFP.

The bids (along with soft copy) shall be dropped/submitted at UCO Bank's address given in Bid Control Sheet Table, on or before the date specified therein.

All envelopes must be super-scribed with the following information:

- Name of the Bidder
- Bid Reference No.
- Type of Bid (Eligibility or Technical or Commercial)

The Eligibility and Technical Bid should be complete in all respects and contain all information asked for, in the exact format of eligibility and technical specifications given in the RFP, except prices. The Eligibility and Technical Bids must not contain any price information otherwise BANK, at its sole discretion, may not evaluate the same. Any decision of UCO BANK in this regard shall be final, conclusive and binding upon the bidders. The Technical bid should have documentary proof in support of Eligibility Criteria and all the Annexures as per RFP document.



The Commercial Offer (Hard Copy) should contain all relevant price information.

All pages and documents in individual bids should be numbered as page no.- (Current Page No.) of page no- (Total Page No.) and should contain tender reference no. and Bank's Name.

- 1.2.1 Technical Bid should be duly sealed and super scribed as "Technical Bid for procurement of solution for Implementation of Indian Accounting standards (Ind-AS)".
- 1.2.2 Bid should comply with the Scope of Work as specified hereinafter.
- 1.2.3 The Technical bid should be complete in all respects and contain all information asked for, except prices. The documentary proof in support of all Eligibility Criteria should be submitted along with technical Bid.
- 1.2.4 The Technical bid should have compliance chart as per Annexure- XII including documentary proof in support of Eligibility Criteria and Annexure I, II, IV, V, VIII, IX, X, XI, XII, XIII, XIV, XV, XVI, XVII, XVIII, XIX, XX, XXI and **Masked price** of Annexure – XVII. The selected bidder has to submit Annexure III and VII.

- 1.2.5 One Separate envelope containing Tender Fee, EMD and Pre-Contract Integrity Pact should invariably be placed in Eligibility Bid envelope.
- 1.2.6 Bidders to submit a masked commercial Bid i.e. by hiding price commercial bid as per Annexure - XVII with technical bid envelope to be submitted.
- 1.2.7 Commercial bid duly sealed and super scribed as "Commercial Bid for procurement of solution for Implementation of Indian Accounting standards (IND-AS)".
- 1.2.8 The Commercial bid should have compliance chart as per Annexure- XVII.
- 1.2.9 Incomplete bids or bids not conforming to the terms and conditions are liable for rejection by the Bank.
- 1.2.10 At any time, prior to deadline for submission of RFP, UCO Bank may modify any of the terms & conditions and technical specifications at its sole discretion and the same will be available on Bank's website and the amendments shall be binding on the bidder. In case of any amendment, UCO Bank may extend the deadline for submission of response to this RFP in order to provide a reasonable time to the prospective bidders.
- 1.2.11 UCO Bank reserves the right to seek clarification or call for supporting documents from any of the bidders, for which the concerned bidder need to submit the documentary evidence(s) as required by UCO Bank.
- 1.2.12 Any Technical Bid, submitted with incorrect information will be liable for rejection. Further, if any bidder is found to have submitted incorrect information at any time, bidder may be debarred from participation in the future tendering processes of Bank.
- 1.2.13 The Bank does not bind itself to accept the lowest or any Bid and reserves the right to reject any or all Bids at any point of time prior to the issuance of purchase order without assigning any reasons whatsoever.
- 1.2.14 The Bank reserves the right to resort to re-tendering without providing any reason whatsoever. The Bank shall not incur any liability on account of such rejection.
- 1.2.15 The Bank reserves the right to modify any terms, conditions or specifications for submission of bids and to obtain revised Bids from the bidders due to

such changes, if any at any time prior to completion of evaluation of technical bids from the participating bidders.

- 1.2.16 Canvassing of any kind or Bid submitted with false information will be a disqualification.
- 1.2.17 The bidder is required to guarantee that exchange rate fluctuations, changes in import duty and other taxes will not affect the Rupee value of the commercial bid over the price validity period.
- 1.2.18 The selected bidder shall keep the price valid for five year from the date of Agreement.
- 1.2.19 Prices quoted by the Bidder shall be in Indian Rupees, firm and not subject to any price escalation, if the order is placed within the price validity period.
- 1.2.20 Further, subsequent to the orders being placed, the Bidder shall pass on to the Bank all fiscal benefits arising out of reductions in Government levies /taxes.
- 1.2.21 The Bank shall be under no obligation to accept the technical solution offered or the lowest or any other offer received in response to this RFP document.
- 1.2.22 The Bank reserves the right to reject any or all offers based on its own evaluation of the offers received, or on the basis of stability, capabilities, track records, reputation among users and other similar features of a bidder. When the Bank makes any such rejection, the Bank will not be bound to give any reason and/or justification in this regard to the bidder. The Bank further reserves the right to cancel the entire RFP process without assigning any reasons whatsoever at any stage of the RFP process.
- 1.2.23 The Bank reserves the right to modify any terms, conditions and specifications of this request for submission of offer and to obtain revised bids from the bidders with regard to such changes. The Bank reserves the right to accept or reject any bid.
- 1.2.24 Printed literature (for specific product and version numbers) describing configuration and functionality should be provided to the Bank for the products proposed to be supplied for the project. It should be noted that



the product proposed will have to be supplied with all the software updates/fixes, if any, and associated documents. The version of software delivered should be the latest one available. The bidder shall not quote for the products, whose End of sale/ End of Support/End of License has been declared by the OEM.

1.2.25 Bids once submitted shall not be returned to the Bidder in future.

1.2.26 Bidder must have back to back support relation with the OEM's whose products are offered by the bidder to the Bank, in case the bidder is not an Original Equipment Manufacturer(OEM). A commitment letter from the OEM at least for a period of 5 years has to be submitted along with the Technical bid.

1.2.27 The technical bid shall be submitted in conformity with the Scope of Work.

1.2.28 The selected bidder must adhere to the terms of this RFP document.

1.3 COST OF TENDER DOCUMENTS

The bidders should pay the Cost of tender document fee of Rs.30, 000/- (Rupees Thirty Thousand Only). The Cost of tender documents shall be paid by Demand Draft / Banker's Cheque / Pay Order drawn in favour of 'UCO Bank' payable at Kolkata. The Cost of tender document is non-refundable. The bidder downloading the tender document from Bank's website www.ucobank.com must pay the cost of the tender document, in a separate cover, at the time of submission of the bids. This non-refundable tender fee of can also be submitted through the electronic mode to the below mention account. Proof of successful deposit of tender fee has to be submitted along with tender document. The details of the account are as under:-

- **Account Number-18700210000755**
- **Account Name- M/s H O DIT**
- **Branch- DD Block, Salt Lake Branch**
- **IFSC- UCBA0001870**
- **MICR-700028138**

1.4 EARNEST MONEY DEPOSIT

The Bidder must submit Earnest Money Deposit (EMD) along with the Technical Bid in the form of Bank Guarantee having validity period for 180 days from the date of opening of Technical Bid in the format given in Annexure VI. The EMD

amount is Rs 20, 00,000/- (Rupees Twenty Lacs Only) issued by any scheduled commercial bank operating in India.

Non-submission of EMD will lead to outright rejection of the bid of the bidder. The EMD of unsuccessful bidders will be returned to them on completion of the tender process. The EMD of successful bidder will be returned on submission of Performance Bank Guarantee as specified hereunder.

EMD should be submitted strictly in the form of BG only in a separate sealed envelope along with Cost of Tender Document wherever applicable. In case, it is not found in a separate envelope, Bank may reject the bid and Bank will not have any liability to return the EMD.

The Earnest Money Deposit will not bear any interest and this amount shall be forfeited in the event of any evasion, avoidance, refusal or delay on the part of bidder to sign and execute the Purchase Order / Service Level Agreements or any other documents, as may be required by the Bank if the bid is accepted. Any decision of the Bank shall be final, conclusive and binding on the bidder

The EMD will not bear any interest and EMD made by the bidder will be forfeited if:



- 1.4.1 The bidder withdraws its bid during the period of bid validity(180 days from the date of opening of bid).
- 1.4.2 If the bidder makes any statement or encloses any form which turns out to be false, fake, incorrect and /or misleading at any time prior to signing of contract and /or conceals or suppresses material information; and/or .
- 1.4.3 The selected bidder withdraws his tender before furnishing an unconditional and irrevocable Performance Bank Guarantee.
- 1.4.4 The bidder violates any of the provisions of the terms and conditions of this tender specification.
- 1.4.5 In case the successful bidder fails in the following:
 - To sign the contract in the form and manner to the satisfaction of UCO BANK.
 - To furnish Performance Bank Guarantee in the form and manner to the satisfaction of UCO BANK either at the time of or before the execution of Service Level Agreement (SLA)

Note:

As per recommendations of GOI, Bank has decided to waive off EMD and tender cost for NSIC registered MSME entrepreneurs.

1. Exemption from submission of EMD and tender cost shall be given to bidders who are Micro, Small & Medium Enterprises (MSME) and are registered with National Small Scale Industrial Corporation (NSIC) under its "single Point Registration Scheme". The bidder has to submit necessary document issued by NSIC to avail the exemption. To qualify for EMD exemption, firms should necessary enclose a valid copy of registration certificate issued by NSIC which are valid on last date of submission of the tender documents. MSME firms who are in the process of obtaining NSIC registration will not be considered for EMD and tender cost exemption.

Bids received without EMD and tender cost from bidders not having valid NSIC registered documents for exemption will not be considered.

Performance Bank Guarantee (PBG) has to be submitted under any circumstance.

1.5 REJECTION OF THE BID

The Bid is liable to be rejected if:

- 1.5.1 The document doesn't bear signature of authorized person on each page signed and duly stamped.
- 1.5.2 It is received through Fax/E-mail.
- 1.5.3 It is received after expiry of the due date and time stipulated for Bid submission.
- 1.5.4 Incomplete Bids, including non-submission or non-furnishing of requisite documents including Integrity Pact / Conditional Bids/ incorrect information in bid / Bids not conforming to the terms and conditions stipulated in this Request for proposal (RFP) are liable for rejection by the Bank.
- 1.5.5 Bidder should comply with all the points mentioned in the Scope of work in part-IV. Non-compliance of any point will lead to rejection of the bid.
- 1.5.6 Any form of canvassing/lobbying/influence/query regarding short listing, status etc. will be a disqualification.

1.6 PRE-BID MEETING

For the purpose of clarifications of doubts of the bidders on issues related to the RFP, Bank intends to hold a pre bid meeting on the date & time as indicated in the RFP (Control Table). The queries for the Pre-bid meeting should be reached by email on or before the date mentioned above on e-mail: hodit.calcutta@ucobank.co.in. It may be noted that no query from any bidder shall be entertained or received after the above mentioned date. Queries raised by the prospective bidder and the Bank's response will be hosted at Bank's web site. No individual correspondence will be accepted in this regard. Only authorized representatives of bidder will be allowed to attend the Pre-bid meeting. Any deficiencies should also be raised in the pre-bid queries.

1.7 MODIFICATION AND WITHDRAWAL OF BIDS

No bid can be modified by the bidder subsequent to the closing date and time for submission of bids. In the event of withdrawal of the bid by successful bidders, the EMD will be forfeited by the Bank.

1.8 INTRODUCTION AND DISCLAIMER

This Request for Proposal document ("RFP") has been prepared solely to enable UCO Bank ("Bank") in defining the requirements for procurement of solution for Implementation of Indian Accounting standards (Ind-AS). The RFP document is not a recommendation, bid or invitation to enter into a contract, agreement or other arrangement in respect of the services.

1.9 INFORMATION PROVIDED

The RFP document contains statements derived from information that is believed to be reliable at the date obtained but does not purport to provide all of the information that may be necessary or desirable to enable an intending contracting party to determine whether or not to enter into a contract or arrangement with Bank in relation to the provision of services. Neither Bank nor any of its employees, agents, contractors, or advisers gives any representation or warranty, express or implied as to the accuracy or completeness of any information or statement given or made in this RFP document.

1.10 FOR RESPONDENT ONLY

The RFP document is intended solely for the information to the party to whom it is issued ("the Recipient" or "the Respondent") and no other person or organization.

1.11 CONFIDENTIALITY

The RFP document is confidential and is not to be reproduced, transmitted or made available by the Recipient to any other party. The RFP document is provided to the Recipient on the basis of the undertaking of confidentiality given by the Recipient to Bank. Bank may update or revise the RFP document or any part of it. The Recipient acknowledges that any such revised or amended document is received subject to the same terms and conditions as this original and subject to the same confidentiality undertaking.

The Recipient will not disclose or discuss the contents of the RFP document with any officer, employee, consultant, director, agent or other person associated or affiliated in any way with Bank or any of its customers, suppliers or agents without the prior written consent on Bank.

1.12 DISCLAIMER

Subject to any law to the contrary, and to the maximum extent permitted by law, Bank and its officers, employees, contractors, agents, and advisers disclaim all liability from any loss or damage (whether foreseeable or not) suffered by any person acting on or refraining from acting because of any information, including forecasts, statements, estimates, or projections contained in this RFP document or conduct ancillary to it whether or not the loss or damage arises in connection with any negligence, omission, default, lack of care or misrepresentation on the part of Bank or any of its officers, employees, contractors, agents, or advisers.

1.13 COSTS BORNE BY RESPONDENTS

All costs and expenses incurred by Recipients / Respondents in any way associated with the development, preparation, and submission of responses, including but not limited to attendance at meetings, discussions, demonstrations, etc. and providing any additional information required by Bank, will be borne entirely and exclusively by the Recipient / Respondent.

1.14 NO LEGAL RELATIONSHIP

No binding legal relationship will exist between any of the Recipients / Respondents and Bank until execution of a contractual agreement.

1.15 ERRORS AND OMISSIONS

Each Recipient should notify Bank of any error, omission, or discrepancy found in this RFP document.

1.16 ACCEPTANCE OF TERMS

A Recipient will, by responding to Bank RFP, be deemed to have accepted the terms as stated in the RFP.

1.17 RFP RESPONSE

If the response to this RFP does not include the information required or is incomplete or submission is through Fax mode or through e-mail, the response to the RFP is liable to be rejected.

All submissions will become the property of Bank. Recipients shall be deemed to license, and grant all rights to, Bank to reproduce the whole or any portion of their submission for the purpose of evaluation, to disclose the contents of the submission to other Recipients who have registered a submission and to disclose and/or use the contents of the submission as the basis for any resulting RFP process, notwithstanding any copyright or other intellectual property right that may subsist in the submission or Banking documents.

1.18 RFP RESPONSE VALIDITY PERIOD

Bids shall remain valid for 180 (One Hundred eighty) days from the last date of bid submission prescribed by Bank. Bank holds the rights to reject a bid valid for a period shorter than 180 days as non-responsive, without any correspondence. In exceptional circumstances, Bank may solicit the Bidder's consent to an extension of the validity period.

1.19 NOTIFICATION

Bank will notify the Respondents in writing as soon as possible about the outcome of RFP evaluation process, including whether the Respondents' RFP response has been accepted or rejected. Bank is not obliged to provide any reasons for any such acceptance or rejection.

1.20 LANGUAGE OF BIDS

The bid, correspondence and supporting documents should be submitted in English.

1.21 NORMALIZATION OF BIDS

The Bank may go through a process of technical evaluation and normalization of the bids to the extent possible and feasible to ensure that shortlisted bidders are more or less on the same technical ground. After the normalization

process, if Bank feels that any of the bids needs to be normalized and that such normalization has a bearing on the price bids; the Bank may at its discretion ask all the technically shortlisted bidders to re-submit the technical and commercial bids once again for scrutiny. The resubmission can be requested by the Bank in the following two manners:

- Incremental bid submission in part of the requested clarification by the Bank
- Revised submissions of the entire bid in the whole.

The Bank can repeat this normalization process at every stage of bid submission till Bank is satisfied. The shortlisted bidders agree that, they have no reservation or objection to the normalization process and all the technically shortlisted bidders will, by responding to this RFP, agree to participate in the normalization process and extend their co-operation to the Bank during this process. The shortlisted bidders, by submitting the response to this RFP, agree to the process and conditions of the normalization process.

1.22 CANCELLATION OF TENDER PROCESS

UCO Bank reserves the right to accept or reject in part or full any or all offers without assigning any reason thereof. Any decision of UCO Bank in this regard shall be final, conclusive and binding upon the bidders. The Bank reserves the right to accept or reject any Bid in part or in full, and to cancel the Bidding process and reject all Bids at any time during the tender process or prior to contract award, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for Bank's action. During the evaluation process at any stage if it is found that the bidder does not meet the eligibility criteria or has submitted false /incorrect information the bid will be rejected summarily by The Bank.

1.23 AUTHORIZED SIGNATORY

The selected bidder shall indicate the authorized signatories who can discuss, sign negotiate, correspond and any other required formalities with the bank, with regard to the obligations. The selected bidder shall submit, a certified copy of the resolution of their Board, authenticated by Company Secretary, authorizing an official or officials of the company to discuss, sign with the Bank, raise invoice and accept payments and also to correspond. **The bidder shall furnish proof of signature identification for above purposes as required by the Bank.**

1.24 Delivery, Installation and Commissioning

The Bidder shall be responsible for delivery of the Indian Accounting standards (Ind-AS) solution (including all the components) ordered at the mentioned locations should be made operational within **6 Months from the receipt of the Purchase Order**. If the bidder fails to deliver and/or install the Indian Accounting standards (Ind-AS) solution ordered within the stipulated time schedule or by the date extended by Bank, it will be a breach of contract. In the event of Bank agreeing to extend the date of delivery at the request of bidder, it is a condition precedent that the validity of Bank guarantee shall be extended by further period as required by Bank before the expiry of the original bank guarantee. Appropriate insurance shall be provided by the bidder to cover the equipment for the transit period and till acceptance of Indian Accounting standards (Ind-AS) solution by the Bank.

PART –II

2.1 ELIGIBILITY CRITERIA

Only those Bidders who fulfil the following criteria are eligible to respond to the RFP. Offers received from the bidders who do not fulfil all or any of the following eligibility criteria are liable to be rejected.

Sl. No.	Criteria	(Proof of Documents required/must be submitted)
1	Bidder should be a company registered under Companies Act 1956 and Companies Act 2013 since the last three years as on RFP submission date.	Certificate of incorporation & Commencement of Business (whichever applicable) should be submitted.
2	The bidder submitting the offer should have minimum average turnover of Rupees 100 Crores for the last three financial years i.e. 2015-16, 2016-17 & 2017-18. This must be the individual company turnover and not of any group of companies.	Copy of audited balance sheet of the financial year 2015-16, 2016-17 & 2017-18.
3	Bidder should have positive operating Profit in each of the last three financial years, (2015-16, 2016-17, and 2017-18).	Copy of audited balance sheet of the financial year 2015-16, 2016-17 & 2017-18.

4	Bidder should have positive net worth for last three financial years (2015-16, 2016-17 & 2017-18).	Copy of audited balance sheet of the financial year 2015-16, 2016-17 & 2017-18.
5	The bidder/OEM should have implemented/under implementation of the proposed solution at least in any one Scheduled Commercial Banks/NBFCs in India/Overseas during last three years.	The bidder has to submit Purchase Order along with letter from client for satisfactory performance of solution and supporting documents for the same
6	The Bidder should be OEM or Original Solution Developer (OSD) or their authorized partners / Service Provider (SP) / System Integrator (SI) of OEM/OSD in India with an authority to do customization/up-gradation during the period of contract with the Bank	An authorization letter from OEM to this effect should be furnished as per Annexure-X. This letter should specify that in case authorized representative is not able to perform obligations as per contract during contract period, the Original Equipment Manufacturer would provide the same.
7	Bidder should not have been black-listed by any bank / institution in India. An undertaking to this effect must be submitted in their letter head.	Self-declaration to this effect on Company letter head should be submitted.

Note: - In this tender process, either authorized representative / distributor in India on behalf of Principal OEM (Original Equipment Manufacturer) or Principal OEM itself can bid but both cannot bid simultaneously. In such case OEM bid will only be accepted. If an agent / distributor submits bid on behalf of the Principal OEM, the same agent / distributor shall not submit a bid on behalf of another Principal OEM in the same tender for the same item or product

Bidder must comply with all above-mentioned criteria. Non-compliance of any of the criteria will entail rejection of the offer summarily. Photocopies of relevant documents / certificates should be submitted as proof in support of the claims made. UCO BANK reserves the right to verify /evaluate the claims made by the bidder independently. Any decision of UCO BANK in this regard shall be final, conclusive and binding upon the bidder.

PART –III

3.1 EVALUATION CRITERIA

There would be a three (3) stage evaluation process.

The Stages are:

- I) Eligibility Criteria Evaluation
- II) Technical Evaluation
- III) Commercial Evaluation

The Eligibility would be evaluated first for the participating bidders. The bidder, who would qualify all Eligibility Criteria as mentioned in clause 2.1, will be shortlisted for the Technical bid evaluation. A detailed technical evaluation would be undertaken for eligible bidders and only the technically qualified bidders would be shortlisted for commercial opening. **The bidder with the lowest commercial quote will be declared as L1.**

The offers/bids containing erasures or alterations will not be considered. There should be no hand-written material, corrections or alterations in the offer/bid. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. Filling up of the information using terms such as "OK", "accepted", "noted", "as given in brochure/manual" is not acceptable. Bank may treat offers/bids not adhering to these guidelines as unacceptable. The bid form and the documents attached to it shall not be detached or removed one from the other and no alteration(s) or mutilation(s) (other than filling in all the blank spaces) shall be made in any of the bid documents attached thereto. Any alterations or changes to the entries in the attached documents shall be made by a separate covering letter, in the absence of which it shall be rejected forthwith. Any decision in this regard by UCO Bank shall be final, conclusive and binding on the Bidder.

Bank will not entertain any enquiries from the Bidders post tender opening on the status of the bid, nor allow any price reductions during the course of technical or commercial evaluation, till the selected Bidder is notified. No Bidder shall contact UCO Bank on any matter relating to its offer/bid; from the time of offer opening to the time the contract is awarded. Any effort by a Bidder to influence Bank in its decision on offer/bid evaluation, comparison or contract award decisions may result in the rejection of the Bidder's offer/bid forthwith. Any decision of Bank in this regard shall be final, conclusive and binding on the Bidder.

3.1.1 EVALUATION METHODOLOGY

The objective of evolving this evaluation methodology is to facilitate the selection of the most cost-effective solution (Total Cost of Ownership) for the contract period that appropriately meets the requirements of the Bank identified in this RFP.

3.1.2 TECHNICAL EVALUATION PROCESS

In Technical evaluation process, the technical bid of only eligible bidders as per Eligibility Criteria in Part II, Clause 2.1 would be evaluated. The Technical evaluation will be done on a basis of comply chart provide by bidder as per Scope of work in Part IV and Technical and Functional requirements. The Bidder should comply all points in scope of work in Part IV and all points in Annexure – XI & XII. **Bidder has to give presentation as advised by the Bank as a part of technical evaluation process.** Bidders will be rejected from the bid process on non-compliance of any point either in scope of work or points in Annexure – XI & XII under Bank's discretionary power. After technical evaluation commercial bids of only technically qualify bidders will be opened. Masked Bill of material must be attached in Technical offer and should not contain any price information.

3.1.3 COMMERCIAL EVALUATION PROCESS

The Commercial Bids of only technically qualified bidders will be opened and evaluated by the Bank and the evaluation will take into account the following factors:

- a. The Bill of Material must be attached in Technical Proposal as well as Commercial Bid. The format will be identical for both Technical Proposal and Commercial Proposal, except that the Technical Proposal should not contain any price information (with Prices masked). Technical Proposal without masked Bill of Materials will be liable for rejection. Any deviations from the Bill of material/ non-submission of prices as per the format shall make the bid liable for rejection.
- b. The L1 Bidder will be selected on the basis of the amount quoted for proposed solution quoted by them as per Annexure-XVII.
- c. The optimized TCO (Total Cost of Ownership) identified in the commercial bid would be the basis of the entire outflow of the Bank for undertaking the scope of work. Any further hardware, software, licenses required to meet the performance criteria of the Bank as stated in the RFP, during the tenure of the project, would be at the cost of the Bidder.

- d. The bidder will be solely responsible for complying with any applicable Export / Import Regulations. The Bank will no way be responsible for any deemed Export benefit that may be available to the bidder.
- e. In case there is a variation between numbers and words; the value mentioned in words would be considered.
- f. In the event the vendor has not quoted or mentioned the component or services required, for evaluation purposes the highest value of the submitted bids for that component or service would be used to calculate the TCO. For the purposes of payment and finalization of the contract, the value of the lowest bid would be used.

PART -IV

4. SCOPE OF THE WORK

The objective of this RFP is to implement the solution in the Bank to comply with reporting requirements (for placing all the requirements including technological changes), migration of Bank, its subsidiary, JV and Associate to Ind-AS as per Standards notified by MCA / ICAI and RBI / SEBI / and any other statutory guidelines as and when issued.



Following is the broad scope for Procurement, Development, Implementation, Maintenance & Support for Software on IFRS converged Indian Accounting Standards (Ind AS) but not limited to :-

4a) Ind AS implementation on Business including profit planning and budgeting, taxation, capital planning, impairment of assets, credit decision making and capital adequacy, De-conjunction of assets / liabilities, accounting areas such as financial instruments, revenue recognition, property, plant and equipment, leases, employee benefits, deferred taxes, consolidation, provisions etc. besides various reports and disclosures.

4b) Bidder to do comparison study of differences between the current accounting framework and Ind AS. Likely impact analysis on all key indicators in all financial statements and disclosure requirements thereof due to change in the accounting standards to be done.

4c) The transition to Ind AS entails overhaul of implemented Business model, accounting and Risk management framework and practices in vogue to comply with Ind AS reporting and disclosure standards, and therefore the bidder shall be

required to provide comparative financial statistics and interpretation/analysis thereof for latest and previous periods by factoring for such changes.

4d) the bidder should devise setup for development, UAT, production and DR environment. The bidder should also support in conducting UAT, certification, registration, VAPT, audit and all other processes for release of the developed application to production.

4e) In case the Bidder decides to tie up with more than one OEM, Bidder or the System Integrator would be responsible for ensuring due co-ordination between different OEMs and the Bank so as to ensure that all the requirements of the Bank with respect to IND AS are met. Bidder is expected to sort out differences/ reconciliation issues if any arising between different systems to ensure that the calculations and reporting is done accurately and on time.

4f) Bidder / System Integrator is also expected to co-ordinate the process of customizing / enhancing the existing Accounting system/ development of new module, if any to comply with Ind AS reporting and disclosure standards, during contract period, without any extra cost to the Bank.

4g) System should have the capability of reverse integration with the current system as well as future version of current system.

4h) The Bidder shall be responsible for Supply, Installation, Configuration, Integration, operationalization and Maintenance of solution for Implementation of Indian Accounting standards (Ind-AS) (complete solution including Hardware & Software) in the Bank including both domestic & overseas operations.

4i) System generated MIS/Report>Returns should be generated as per the format advised by the Bank from time to time.

4j) Bidder has to provide training to Bank's user and provide related documents/manual for smooth operation.

4.1 Solution Specifications / Functional Requirement

Particulars	IT Enhancements	Requirement for Successful Implementation of IND-AS
Tagging	Tagging of individual financial asset into AC, FVOCI & FVTPL along with existing categorization such as government securities,	Valuation and amortisation of financial assets as per the classification.
		Classification and Measurement of Financial Liabilities as per Ind AS.
		Reclassification of financial assets and de-recognition of financial liabilities.

	<p>debenture, mutual funds etc.</p>	<p>Classification of investments in the categories as defined in Ind AS. System should enable classifications of financial assets into three categories i.e. Amortized cost, Fair Value through Other Comprehensive Income (FVOCI) and Fair value through Profit and Loss account (FVTPL).</p> <p>Mandatory fields should be added to Security master for such classification, so that securities can be tagged appropriately at the time of purchase.</p> <p>At any point of time system should be able to generate the security position report as per new classification.</p> <p>System should have all possible conclusions for Business Model embedded in system. Also there should be SPPI feature as Pass/ Fail shall be embedded in system for each security. Logic shall be built in system for classification based on the results of business model and SPPI test for each security/ instrument</p> <p>System should have the flexibility to manually select the SPPI and Business model.</p> <p>New Chart of Accounts shall be mapped in system which will be as per the requirements of Ind AS</p> <p>There should be adequate safeguards in the system to notify about restrictions on sale/transfer of securities held under amortised cost category</p> <p>Treasury module in the solution to be developed in a manner, which segregates the investment on the parameters of market (primary / secondary).</p>
<p>Computation</p>	<p>System to compute the amortized cost as per the effective interest rate method based on inputs of premium/discount, transaction costs and expected maturity date.</p>	<p>Provision to capture the actual purchase price of the securities.</p> <p>Solution to map chart of accounts of Interest Accrued with securities where the classification is amortised cost.</p> <p>Solution should have flexibility to add financial asset wise upfront fees received / charges paid for calculation of EIR individually / collectively after considering the premium / discount / income /expenses etc. There should be a scope for defining the significant / insignificant income / charges associate with financial assets. A report of such amortized / un amortized income / charges should also be generated.</p> <p>System should facilitate automatic fair value calculation of securities.</p> <p>Solution should enable calculation of fair value using level 1 input, level 2 input and level 3 input and generate report showing the fair value of the financial assets. Solution should have flexibility to add such information at inception level or thereafter.</p>

	<p>System should calculate the New Price to compute the amortized cost of the securities which will be reported in the balance sheet. Amortized cost will be product of "New Price" and quantity of the security. Quantity of security should be computed using "Closing Face value" of the security as per FIFO method. "New Price" will be calculated using:</p> <ol style="list-style-type: none"> 1.Yield 2.Current Date 3.Settlement Date 4.Settlement Price per unit 5.Face value per security 6.Interest Rate 7.Redemption Value 8.Interest frequency 9.Maturity value 10.Last interest received date 11.Interest Basis (Day count convention) 12.Accrued Interest
	<p>Solution should able to generate the portfolio transfer / sale / purchase/redemption report for the behavioural study from the inception / first time adoption.</p>
Compute Values WAM/FIFO Basis.	<p>System should have tagging of "buy"/ "sell/redemption" transactions of a particular security</p>
	<p>System should calculate the Purchase price of security.</p>
	<p>System should run a schedule to calculate cumulative face value of the security taking into consideration all the transactions prior to reporting date.</p>
	<p>All "sell" transactions will be reduced from Face value using First in first out method (FIFO) Accordingly, Closing Face value of security to be computed.</p>
Compute MTM gain/loss for FVTPL and FVOCI instruments and account for it in P/L & OCI respectively.	<p>Calculating the MTM gain or loss on the securities. Provision to capture MTM portfolio wise (as classified under IND AS) and calculate the resulting unrealised gain / losses.</p>
	<p>Solution should compute MTM gain or loss individually as well as collectively for financial assets. Trial balance should reflect separate head for MTM gain or loss as per Ind AS requirement.</p>
Compute gain/loss for instruments that are traded but not settled till reporting date(for settlement date accounting only)	<p>Solution should capture data on real time basis or on daily basis from the above mentioned applications / systems and also able to generate the financial asset position report as and when required as per the Ind AS requirements.</p>
Amount of Gains/losses accumulated in OCI to be reclassified to P & L on Sale of FVOCI debt securities.	<p>Cumulative difference between "amortized cost" and "Purchase Cost" is the unamortized Discount, to be debited to relevant GL</p>
	<p>Solution should generate statement showing comparative reclassification of the financial assets as well as impact summary.</p>
Valuation based on DCF/ FIMMDA/other valuations techniques as used.	
Compute CVA/DVA on derivative instruments.	<p>Solution should recognize derivatives at fair value initially and subsequently as per Ind AS 109.</p>

		<p>Solution should generate report on derivative accounting as per Ind AS. System should account for deal wise Positive and Negative MTM separately in Derivative Financial Asset and Derivative Financial Liability respectively.</p> <p>System should provide MTM sensitivity analysis to comply with disclosure requirements of Ind AS 107</p> <p>Solution should generate report of accounting entries for hedge accounting.</p> <p>Solution should account for MTM on IRS designated as hedging and record positive / negative MTM separately deal wise and separate GL required for recording positive and negative MTM on each derivative product.</p> <p>Solution should generate detailed report individually as well as collectively for CVA/ DVA calculation wherever applicable</p> <p>Solution should compute CVA / DVA based on positive MTM and negative MTM respectively and separate GL required for adjustment related to CVA and DVA.</p>
Capture	Mark to Market values to be computed for reciprocal deposits as they are in nature of Cross currency swaps.	
	Premium / Discounts paid at inception or payable at maturity for AC and FVOCI tagged instruments.	In case of investment in debt securities classified at FVOCI and amortised cost, transaction cost incurred at the time of investment on such securities needs to be amortised over the life as per EIR. System should facilitate linking of such charges to each investment to which it pertains.
		Solution should capture deal wise discount / premium on the securities acquired and accordingly such discount / premium should be amortised over the life of the security in accordance with Effective interest rate.
		Solution should capture the data of financial assets having redemption premium and the same should be accrued as per EIR or flexible enough to accept the manual feeding of such information financial asset wise.
		System should capture following information for the calculation of premium/ discount amortization at EIR over the life of instrument : 1.Settlement date 2.Maturity Date 3.Redemption Date 4.Face Value 5.Face Value per unit 6.Actual Interest rate 7.Redemption Value per unit 8.Interest frequency 9.Settlement price 10.Call date 11.Put Date 12.Last interest received date 13.Interest Basis (Day count convention) 14.Accrued Interest
Reporting	Fair value for all instruments including derivatives and all other Financial Instruments as per IND-AS requirements.	

ECL Computation	Solution should be capable to compute ECL on investments.	
	Solution should be able to generate financial asset wise cash flow (cash flow from the date of inception / date of purchase till the date of redemption/sale on basis of actual repayment as well as on the basis of repayment schedule).	
	Solution should be able to capture the master data of all the financial assets so as to facilitate inception level classification as per Ind AS. Master data so captured can be suitably tagged to classify the financial asset as per Ind AS requirement.	
	Solution should generate report showing financial asset wise Call option, Put option, conversion option etc. solution should have flexibility to add such information at inception level	
	Solution should generate the report showing assumptions undertaken for Ind AS accounting.	
	The in-built cash flow engine should also be capable of taking care of market value of banking book assets and liabilities.	
	There should be provision within the solution's data model to source and store fair values at account level for investment / treasury book and use it for reporting if required	
Collateral Details for fund based	1) Collateral coverage value against each customer advance needs to be generated in the IT system for calculation of Loss given Default numbers for provisioning under ECL model.	The system should be capable of computing LGD using market based LGD, implied LGD and work-out method as per the nature, applicability and data availability of credit risk exposures. Further, the system should be able to drill down the LGD estimation into industry wise, vertical wise, product wise, workout method wise, year wise/quarter wise/Other frequencies/, collateral-wise and offer additional drilldown options and reports.
Probability of Default Details for fund and non-fund based facility	To compute PD, LGD & CCF parameter in case it is not available from other system.	
	To convert TTC PD to PIT PD and vice versa	
	To compute Life time PD numbers based on 1 year, 2 year ...PD numbers	
	Support transparent, rule driven mechanism to identify significant increase in credit risk (SICR, significant deterioration assessment).	
	The solution should be able to engage in modelling the term structures of the PD, LGD and EAD (wherever applicable). This includes the ability to engage in multi-year (e.g. 1-year, 3- years, 5-years, etc.) default (PD), loss (LGD) and exposure (EAD) estimates to fulfil the 12-month and lifetime ECL measurement requirements.	
	The solution should allow users to build, validate and deploy PD models based on linear regression, logistic regression and decision tree based methodologies	
	The solution should allow users to use statistical methodologies to estimate PD in case of low default portfolios like large corporate.	
	The solution should provide the ability to estimates Probability of Default (PD) / long run PDs using internal rating grades and default history across all exposure types as well as Internal loss history, External rating based, Statistical based approaches as per Basel III / RBI Guidelines for IRB approaches (e.g. - as per all RBI / Basel III Guidelines).	
	The solution should be capable of computing Through-the-cycle PD and Point-in-time PD. The system should be capable to convert a PIT PD to TTC PD and vice versa. Solution should be capable of customization of determination of PD bases on different rating grades, Product or any other criteria defined by user.	

Staging of Advances	1) Appropriate logic needs to be built in the IT system so that staging of advances customer wise is done under IND AS Financials. Days past due (DPD) is used for staging of advances.	Solution should provide pre-defined (out of box) rules for IND AS 109 Stage 1, Stage 2 & Stage 3. The rules listed below for stage determination should be supported out of the box: Rating Based LTV Based Days Past Due Based New Account Origination Based Industry Based Country Based Approach Based Credit Status Based (defaulted/impaired)
	2) For corporate customers Stage 1 will comprise of 0-59 days past due, Stage 2 will comprise of 60-89 days past due & Stage 3 will comprise of 90 days & above.	Solution to segregate retail and corporate asset class as per RBI definition taking into aggregate fund based and non-fund based exposure for domestic and overseas exposures and further segregate retail and corporate advances into Stage I, stage II and stage III advances as per guidelines or as per user defined.
	3) For retail customers Stage 1 comprise of 0-29 days, Stage 2 will comprise of 30-89 days past due & stage 3 will comprise of 90 days & above.	To classify an account in stage I to other stages as per regulatory guidelines i.e. standard restructure assets.
Solution should allow formation of cohorts for collective assessment based on instrument dimensions / characteristics chosen by the bank.		
Solution should be able to define bank specific staging rules with complex nested rules and exception rules, for stages 1,2, and 3 at legal entity / LOB/ subsidiary & group levels.		
Solution should allow for modification of stage determination rules by authorized users along with approval functionality (maker-checker).		
Solution should incorporate input data field changes (if any) corresponding to bank specific criteria for stage determination with reference to different portfolios / subsidiary or local regulation related requirements.		
Solution should allow different staging rules for different legal entity, regions to meet both local & group reporting / disclosure requirements.		
Ability to flag exposures in the system where the stage assignment has not been executed due to missing input data & flexibility to apply default values for missing input data as well as for final stage determination.		
Solution should provide staging movement summary/stage transition reports from one period to next.		
The solution should have the ability to define different business rules regarding the designation of a financial asset as being Stage 1, 2 or 3, including definitions of default. The designation of business rules should be flexible, able to define specific rules at the account / transaction level, as well as on an aggregated level, and incorporate any internal accounting standards. This includes the ability to apply different rules within the same portfolio, segment, product, account, etc. The business Rules engine should be Graphical User Interface (GUI) based and configurable by Business User.		
The system should allow the user to define the expected values for each term and define whether the term is an input, intermediate or output variable.		
System should allow user to create one or multiple rule sets. Each rule set would be a combination of rules (Eg: if DPD >60 days then Stage 2, Rating below BB- then Stage 2) executed in a preference order		

User should be able to drag drop and change the order in which the rules are executed within a rule set.	
The solution should have the ability to assess the reasonableness of applying the 30/90 days rebuttable presumption. For example, the solution should have the ability to perform certain analysis to determine the viability of rebutting the presumption.	
The solution should have the ability to define different cut-off thresholds in which to determine a significant increase in credit risk.	
4) Restructured advances as per RBI circular has to be tagged as stage 3.	Solution should be able to capture the data from system
Credit Rating for advances (Fund and Non-Fund)	The solution should be able to integrate with any existing development / future development environment, the credit risk models currently employed by the Bank, including internally developed models and or external vendor developed models. This includes Internal Ratings Based ("IRB") models, internal scorecards / rating models, application and behavioural models.
Loan Tenure (Fund and Non Fund)	Solution should be able to capture the data with respect to remaining loan tenure
Drawn/ Undrawn Amounts of Advances (Fund and Non-Fund)	Facilitate to arrive at account level undrawn balances for fund and non-fund based facilities and respective ECL
Fair Value on Advances categorized at amortized cost	As per IND AS 107 Disclosures on Financial Instruments, Fair value of financial instruments categorized at Amortized Cost is to be given as Disclosure. Solution should be capable for calculation for fair value of advances categorised at Amortised Cost.
Subsidy Reserve Fund	Solution should be capable to provide break up of Subsidy Reserve Fund Scheme wise & customer wise so that the amount of subsidy can be adjusted for the purpose of computation of ECL provision through system.
ECGC/CGTSI Customer Wise Details	Solution should be capable to provide break up of account wise ECGC/CGTSI claims received so that the amount of ECGC/CGTSI claims received can be adjusted for the purpose of computation of ECL provision through system.
Measurement of Borrowings	Borrowings are to be measured at amortized cost using Effective Interest Rate method. So, the Loan/Bond issue expenses should be tagged with respective bond in the accounting package so that interest accrual is done based on EIR rate and not the coupon Rate.
	System should be updated to have classification of borrowing as per Ind AS 109.
	For investment accounting Interest to be accounted under the Ind AS books as per the "Yield / EIR" calculated instead of the interest rate of the bond.
	System should compute amortised cost of the borrowing as per Effective Interest Rate (EIR) method after taking into account transaction cost and other charges incurred on day 1.
	Solution should be able to link charges at the time of borrowings to each borrowing and recognise the same as per EIR instead of upfront charging to P & L.
ECL Tool	The solutions should cater to the requirement of manual input of recovery, expected or contractual cash flows or apply loss rates to a set of cash flows as required.

Calculation of provisioning as per "Expected Credit Loss" (ECL) Model for recognition of impairment on financial assets.

Solution should provide the flexibility to define or customize bank specific calculation methodologies for the computation of ECL.

Ability to add / edit the ECL computation rules through front end screen by business users with authorization functionality.

Flexibility of dynamic updates on the ECL computation & reporting process. (E.g. reusing the business rule for different jurisdiction ECL computation, assigning the existing methodology for new products from the bank etc.).

To interact with different systems to get the following data required for ECL computation

- a) Extract the rating data from System
- b) Rating wise Probability of Default
- c) Facility wise Loss given Default
- d) Facility wise CCF
- e) Rating wise tenure specific cumulative probability of default
- f) Account wise standard restructuring data
- g) Account wise SMA data
- h) Account wise technical write off

To construct/generate account level residual cash flows based on actual repayments in loan accounts and arrive at IND AS balances (future remaining cash flows discounted at EIR) to be used for ECL computation.

To be able to build future cash flows based on repayment, tenure, interest rate, interest/instalment repayment frequency, original loan amount in cases where the same is not made available directly from any system.

To compute PD, LGD and CCF parameter in case it is not available from other system.

To convert TTC PD to PIT PD and vice versa.

To compute interest in NPA accounts and should be able to create account level GL entry.

To accept MOC data and reconcile the ECL computation accordingly.

To compute Life time PD numbers based on 1 year, 2 year ...PD numbers

Support transparent, rule driven mechanism to identify significant increase in credit risk (SICR, significant deterioration assessment).

Systemic generation of IRR (Internal Rate of Return) based on projected cash flow of loan accounts.

Solution should incorporate input data field changes (if any) corresponding to bank specific criteria for stage determination with reference to different portfolios / subsidiary or local regulation related requirements.

The solution should have the ability to define different cut-off thresholds in which to determine a significant increase in credit risk.

The system by default should compute 12 Month and Lifetime ECL for all accounts. The system should allow dynamic stage allocation and ECL computation without resubmitting of inputs to ECL engine.

To compute credit risk RWA as per RBI Basel guidelines.
Solution should have below capabilities:
a) Lineage - Calculation & data (input, processing, result)
b) Audit trail functionality
c) Online reference information for computation logic used for respective ECL computation steps (read only)

Should provide the ability to execute the all statistical models in single environment. This includes models for IIND AS 109, Basel etc.

System should provide the ability to update model parameters, models or inputs required based on change in banks policy decision or whenever required.

Solution should able to incorporate PIT related models / methodology based on bank specific logics & user defined mapping tables.

Ability to do model monitoring, manage model repository & support the model life cycle management (e.g. model owners, changes made, approvers, creation date / expiry date etc.).

Solution should support exception handling mechanism with reference to missing data, business logics & generate the reports as a part of ECL computation.

The solution should have the capacity to capture the different ECL models being developed, tested and deployed, specifically to store the model codes, assumptions and business rules employed, thereby providing an inventory of all models in use for IND AS109 including the ability to illustrate or define the relationship / dependency of the different models. The models along with conditionality should be configurable in the application.

The solution should be able to accommodate the development process, including capability to define the modelling steps, execute the modelling steps and test conduct goodness-of-fit testing.

The solution should be able to engage in modelling the term structures of the PD, LGD and EAD (wherever applicable). This includes the ability to engage in multi-year (e.g. 1-year, 3- years, 5-years, etc.) default (PD), loss (LGD) and exposure (EAD) estimates to fulfil the 12-month and lifetime ECL measurement requirements.

Systems development environment should simulate different assumptions and business rules. The simulation environment should work at a model group, portfolio, product, segment and account levels.

The solution should allow combination of models, scenarios, cash flows, portfolio, mitigates in a modular fashion as such calculation can be done by combing models of current period with portfolio of previous period. This would be required to do attribution analysis for ECL changes.

The model implementation codes should be generated by system based on choices made by user.

The solution should contain a defined model to support the development of ECL / FIRB /IRB models. Additionally, the solution should be flexible in allowing changes to any pre-defined data model, or allow the definition of a new data model. The solution should be capable of automatically adjusting pre-existing models to the new data model.

The system should be able to store all the data for at least seven years extendable up to 20 Years.

The solution should allow users to build, validate and deploy PD models based on linear regression, logistic regression and decision tree based methodologies

The solution should allow users to use statistical methodologies to estimate PD in case of low default portfolios like large corporate.

The solution should provide the ability to estimate Probability of Default (PD) / long run PDs using internal rating grades and default history across all exposure types as well as Internal loss history, External rating based, Statistical based approaches as per Basel III / RBI Guidelines for IRB approaches (e.g. - as per all RBI / Basel III Guidelines).

The solution should be capable of computing Through-the-cycle PD and Point-in-time PD. The system should be capable to convert a PIT PD to TTC PD and vice versa.

The system should be capable of computing LGD using market based LGD, implied LGD and work-out method as per the nature, applicability and data availability of credit risk exposures. Further, the system should be able to drill down the LGD estimation into industry wise, vertical wise, product wise, workout method wise, year wise/quarter wise/Other frequencies/, collateral-wise and offer additional drilldown options and reports.

The solution should support both the Foundation as well as Advanced approaches for collection of LGD data components and estimation of facility wise Loss Given Default (LGD) – both economic LGD and accounting LGD- across all exposure types (On and Off Balance sheet exposures), both for defaulted/ restructured accounts.

System should allow to choose a discount rate for discounting of recovery cash-flows and recovery costs.

The solution should allow users to build LGD prediction models using suitable statistical models.

The solution should distinguish between senior and subordinated facilities allocating required LGD to unsecured portion of the facility as per IRB guidelines.

The solution should provide for effective LGD where the Bank is having other financial/AIRB collaterals and pool of collaterals.

The system should be able to compute Downturn default weighted LGD as per RBI/ Basel guidelines.

For estimation of EAD & CCF, system should enable undrawn analysis, UGD (Usage Given Default) analysis.

The solution should allow users to build, validate and deploy CCF prediction models based on linear regression, logistic regression and clustering.

The system should have capabilities to capture outstanding and limit information for all revolving and off- balance sheet exposures.

The system should have capabilities to compute realized CCF (Credit Conversion Factor) for defaulted exposures.

The solution should allow for forecasting balance amount using cash flow projection (interest and capital) for EMI, non EMI, Amortizing and regular type of loan products.

The system should support various methodologies for imputing missing values in data.

The system should support sampling techniques like simple, stratified, random etc.

Facilitate to create and maintain retail pools (PD, LGD and CCF) as per the definitions of pools.

The system should enable development of credit scorecards and credit rating models using Linear Regression, Logistic Regression and Clustering.

The system should provide GUI (Graphical User Interface) to provide the standard scorecard development steps like data cleansing, single factor analysis, multifactor analysis, log-odds scaling and final scorecard generation.

The system should be able to read in any macro-economic data (historical and forecasted). This could include but should not be limited to: GDP, Unemployment Rates, Inflation, Crude price and should be able to build forecasting/forward looking models for all the risk parameters.

System should be able to design model correlating the historical macroeconomic factor and banks various parameters. This could include but not limited NPA, Fresh generation of NPA, Gross advance, fresh sanction of advances etc.

Based on correlation study between the historical macro-economic factor and banks internal factor, System should be capable of generating multiplying factor for application in ECL

System should be able to register multiple sets of scenarios and have user interface to manage/register/de-register a scenario set.

The model execution should allow forecasting of future balances based on contractual cash flows. The system should be able to read input data for amortizing/irregular cash flows where required.

System should be able to read all collateral data and allocate collateral against exposures in the most effective/optimized manner.

System should be able to use homogeneous discrete time and non-homogeneous continuous time processes for the generation of rating transition matrices to model the credit risk term structures (e.g. multi-year default rates).

System should be able to use survival analysis to estimate multi-year default and / or loss experience by means of measuring the occurrence and timing of default events. For example through proportional hazards regression, competing risks models and discrete-time methods.

Calculation of ECL on the basis of various loss models.

System should have ability to execute various Vector Auto Regression ("VAR") type models in order to generate forward looking scenarios. Specifically Error Correction Model ("ECM")

System should be able to deploy models based on simplified approaches for trade receivables and contract assets (within the scope of IFRS 15), and lease receivables (within the scope of IFRS 117).

System should have ability to perform segmentation analysis to provide both quantitative and qualitative justifications for the segmentation strategy employed. The approaches available for utilization should allow for multi-level segmentation to ensure sufficient granularity.

The system should provide for collateral pricing and optimal utilization across horizon as part of ECL computation. The system should be able to use all collaterals for IND AS 109 and not restricted to only financial collaterals.

System should be allowed for users to define logic for ECL computation through a graphical user interface. User should be able to save/modify/delete and store multiple versions of the defined logics.

System should allow for model execution code to be built as initialization block (to be executed once) and main block which should be executed for each scenario/simulation.

User should be able to explore the portfolio data with drill down capability. The system should be sized to hold the entire portfolio data in memory to be able to enable quick drill down and exploration.

The system should be able to dynamically generate a code for deployment and execution of any of the ECL computation.

User should be able to select portfolio, scenario and models in any combination and run the same once portfolio, scenarios and models are defined in the system.

System should allow running of previous month/quarter/years portfolio and should enable generation of attribution analysis from the same i.e. ability to drill down on the cause for change of ECL number.

System should be able to attribute changes in ECL due to changes in model, Scenarios, new loans originated, prepayment or credit migration over the period.

ECL Execution logs should be available on the user interface to enable debugging of any of the previously executed ECL runs.

System should allow users to build custom logics, if required for any pre or post processing required on the ECL data or outputs. This could include aggregation logics/counterparty level logics or account level adjustments.

The system should provide governance for ECL activities to be carried out by various teams to make the process repeatable, transparent and auditable. The system should provide workflow for orchestration of activities and override of results.

The solution should be able to condition forward ECL measures at both the parameter level (e.g. PD, LGD and EAD) as well as condition at the estimated ECL level.

The ability to generate multiple economic scenarios to be used to condition the forward ECL measurement (e.g. to condition the 1-year, 3-years, 5-years ECL estimates). This includes incorporating any internal economic scenarios generated via Stress Testing, capital planning and business planning.

The solution should be able to simulate the impact on ECL arising from different assumptions and economic scenarios. This includes the ability to forecast the ECL measures over "foreseeable horizon". This can vary from a few years to 10 years depending on the expected life of the financial asset. Additionally the simulation should include the ability to "test" new business rules (e.g. segmentation, modelling assumptions, stage allocation rules, etc.) for the purpose of an impact assessment.

Simulation should include sensitivity type analysis and scenario type analysis to simulate the impact on ECL levels. The solution should be able to accommodate multiple scenarios (including sensitivity assumptions).

The solution should include the ability to apply ad-hoc adjustments to measured ECL values (at both the ECL parameter level and the estimated loss amount level). The adjustments include management and / or regulator overlays, and prescribed or specific adjustments to the PD, LGD and EAD parameters. Where adjustments have been made to estimated values, the solution should be able to track and keep in record, the specific adjustments made and the impact on final estimated ECL values.

The ECL engine should support Distributed in-memory processing for large volume of data.

The ECL engine should support use of commodity hardware for large volume of data.

The ECL engine should support big data platform for processing of large volume of data.

Facilitate to arrive at account level undrawn balances for fund and non-fund based facilities and respective ECL.

Calculate income in respect of NPAs by netting existing ECL and arrive at ECL thereof.

EIR Measurement	Advances are to be measured at amortized cost using Effective interest rate method (EIR). Customer wise Effective interest rate needs to be built in the accounting package so that the interest accrual is done based on EIR rate and not on coupon rate. Processing fees income taken from each customer has to be tagged with each customer in the system. It may happen that processing fees taken from a customer includes fee for multiple product such as term loan, cash credit, Letter of credit, Bank Guarantee etc., so in those cases bank needs to bifurcate the fees between multiple products so that processing fees for term loan can be used in the calculation of EIR for each term loan. Illustration for EIR computation has been attached for reference.
------------------------	--

Processing fees or any other loan origination fees collected and incremental cost incurred at the time of loan booking should be parked in "Unamortized fees" sub GL.

Other charges like documentation charges, Inspection fees, etc. which are collected upfront at the time of origination of loan need to be captured separately in a separate GL. Upfront Fees related to loan accounts needs to be tagged to respective loan account.

Bifurcation/mapping of all charges/Fees (Such as but not limited to Processing Fee, Mortgage Fee, Doc charges, etc.) received from borrowers into One-time charges & recurring charges.

Processing fees reversed subsequently due to waiver or concessions given should also be factored in account wise.

Solution should have the functionality to generate cash flows (Cash flow engine) based on the repayment schedule or inputs fed in the system / available in different source systems.

The Cash Flow Engine shall be able to create expected and contractual Cash Flow from data characteristics of financial instruments according to different types of contracts

The solution should provide the capability to alter cash flows through parameters (e.g. pre-payment) that can be set as part of configurations. Audit trail to be maintained of these configurations and changes.

The solution should support creation of future cash flow according to original debt repayment schedules and scenarios as required. E.g. According to different/revised reprising schedules such as step up, step down or a combination of reprising schedule. The cash flows shall be created based on inputs of the instruments. It may be possible that there may be different scenarios for single instrument.

All such scenarios should be developed by the system

The solution should support calculation of the future cash flow in the event of changes in estimate. This includes but is not limited to: Prepayments, Debt Restructuring, Interest Rates, Disbursement / Progressive Disbursements etc.

The system must be able to calculate expected life for individual account and by portfolio based on given requirements by the Bank i.e. behavioural cash flows. Expected life should be parameterized and allowed to change according to specific requirements of the banks for aspects such as prepayments, changes in repayment schedule etc.

The solution should be able to integrate the factors of prepayment pattern, utilization of off-balance sheet items, etc. as part of creation of cash flows. The same shall be based on terms fed in the system for each instrument. Appropriate maker and checker shall be there for insertion of the terms. If there is change in some input, then revised future cash flows should be generated by the system. E.g. if there is change in interest rate, then cash flows needs to be revisited.

The solution should support the creation of cash flows based on the EMIs, Bullets and such other standard amortization methods.

The solution should be able to store detailed cash flows for future reference and transparency for time period as required by the bank

The solution should have the capability to have different sets of cash flow calculated for each account as required by the bank. Cash flows for the different possible scenarios shall be generated by the system. E.g. what will be the cash flow if call option not exercised, what will be the cash flow if the same is exercised etc.

The solution should have the ability to calculate expected cash flow for purchased impaired assets in accordance with IFRS9

The solution shall have the capability to calculate expected cash flows with forward looking interest rate changes / currency rate changes etc. which are different per scenario.

The solutions should cater to the requirement of manual input of recovery, expected or contractual cash flows or apply loss rates to a set of cash flows as required.

The solution should support all types of financial instruments, either those with fixed interest rate, floating interest rate, or variable interest rate.

The solution should have the ability to calculate expected cash flow for purchased impaired assets in accordance with IFRS9 / IND AS.

The solution should have a function to calculate the fair value of a financial instrument using cash flow discounting,

The solution shall have the capability to calculate expected cash flows with replication (of credit cards) behaviour which is different per scenario. The system should be able to do the sensitivity analysis.

The Cash Flow Engine shall be able to take Cash Flows provided as download from other systems within the Bank, if available.

System should facilitate calculation of Effective interest rate (EIR) of all financial instruments and generate cash flows required for the same.

Effective Interest rate should be recomputed whenever there is any change in the normal repayment schedule of the customer for e.g. Partial Prepayment, interest rate change, EMI defaults, tenure change, EMI change, Replacements restructuring etc.

The solution should handle amortization of fees/commissions/costs, discounts/premiums, which are considered integral part of the EIR.

Solution should be able to recalculate the carrying value of the loan (i.e. modified cash flows needs to be discounted at original EIR) and recognize a gain/loss on modification to P/L statement.

The solution should be able to calculate EIR for both fixed rate / floating rate/ variable rate purchased impaired assets in such a way that an EIR will be available for the original contractual terms as well as the EIR for the purchased impaired assets in accordance with the Expected loss model of IFRS 9:

The solution should be able to calculate the effective interest rate based on triggers set by the bank which could be based on designated account id's, client id's and frequencies: daily, monthly, or every time there is a change in events that change the underlying cash flows/other terms & conditions.

Solution should compute amortized cost of the financial liabilities as per Effective Interest Rate (EIR) method after taking into account transaction cost and other charges. Transaction cost should automatically be extracted from the system or solution should be flexible enough to accept the manual feeding of such information financial liability wise.

The solution should be able to calculate the effective interest rate of a financial instrument throughout its life, either the financial instrument with fixed life or the expected life.

System should run a parallel schedule to calculate interest as per EIR at every EOD at account level taking into account upfront fees collected from customer.

The solution should be able to support uploading of the effective interest rate from external system. It should support manual changes or input of the EIR, approval workflow and audit trail to be maintained.

The solution should have the capability to define triggers or indicators to recalculate changed effective interest rate. The calculated values to be maintained for reference throughout the lifetime of the instrument. For example, when call option not exercised, then EIR shall be calculated on the contractual life rather than estimated life.

The solution should be able to handle EIR calculations and amortized cost adjustments for all financial instruments which are measured at amortized cost or FVOCI including staff loans.

The system must provide report/record/log of the events or any other reasons that cause change in income/expense recognition.

The solution shall have the ability to provide the necessary transparency for auditors to display the historical calculation results and change events.

The solution should have the ability to drill down from an aggregated interest revenue level to transaction / event level of detail on which the effective interest rate accrual was calculated

The solution should provide the ability to integrate the EIR calculated with the Impairment calculations or any other rate as chosen by the bank. Impairment testing checklist /format should be embedded in the software.

The system should allow user to perform the analysis and make correction of any errors on the contract level.

For purchased credit-impaired assets, the solution should have the capability to calculate an EIR based on the contractual cash flow calculation, a credit-adjusted EIR based on the expected cash flow.

The solution should be able to generate the amortization schedule at account level or portfolio level

System should have capability to build and store amortization schedule from the date of origination of loan.

The system should allow for "drill down" from aggregated balance into detailed information of each contract and its valuation results on historical dates. Solution should generate amortization table by contract/account that shows the breakdown of cash flow into;

- 1.Principal
- 2.Cash flow movement
- 3.Actual/Contractual Interest
- 4.Interest according Effective Interest Rate
- 5.Carrying amount (In case of Purchased or Originated Credit-Impaired Assets)
- 6.Expected Credit Loss/Impairment Loss

System should be able to recognize One time charges collected /Bank guarantee commission etc as income over the period instead of recognizing it upfront.

For the amortization schedule, the solution should be able to update the schedule should there be any delay in payment or partial repayment of the instalment amount etc.

Staff Advance	Employee loans Outstanding on preferential Interest Rate to be calculate on market rate.	The solution should be able to handle EIR calculations and amortized cost adjustments for all financial instruments which are measured at amortized cost or FVOCI including staff loans.
		Solution should be able to do fair valuation of Staff loans and the difference between Fair value and nominal value is to be recognized as employee cost over the tenure of Staff loan
		Solution should be able to do fair valuation of Staff deposit and the difference between Fair value and nominal value is to be recognized as employee cost

Solution should be able to calculate depreciation as per Ind AS i.e. using the useful life of the asset. Asset Retirement obligation (ARO) to be added to respective assets and depreciation to be charged on it by the system. Present value of obligation to be recognized in balance sheet.

System should be capable of arriving the ARO value based on the following:

1. Cost of the asset
2. Estimated useful life/tenure of the asset
3. Estimated cost of removal/asset retirement on initial recognition
4. Rate of borrowing for such asset
5. Inflation rate
6. Revaluation date and value as & when applicable
7. Sale of any asset even of any branch must be set through software so that it could be done by
8. permission from Competent authority affecting the P/L a/c directly
9. All reports should be retrieved easily
10. Asset Category-A,B,C,D etc. classification must so that Reports can be fetched category wise

Loyalty Reward Program	Expenses related to point redemption needs to be booked in the year when the points are generated. Necessary data needs to be collected from the vendor and changes need to be made in system to capture the data.	With regard to debit card reward points, System should be capable of computing the amount of interchange fees to be deferred as System needs to defer the interchange fees earned into fees allocated for issue of reward points and the balance fee will have to be recognized on completion of the transaction i.e. upfront. The fee allocated for issue of reward points to be recognized as revenue as and when the customer redeems the reward points/ when the reward points lapses.
-------------------------------	--	--

Booking Interest on NPA- Stage III	As per present System interest on NPA is calculated in the system but not booked. In Ind As interest will be booked after deducting the provision on the balance outstanding. Necessary changes should be incorporated.	To compute interest in NPA accounts and should be able to create account level as well as GL entry.
		Calculate interest in respect of NPAs by netting existing ECL and arrive at ECL thereof.

Collateral coverage value against each customer advance needs to be generated in	The system should be capable of computing LGD using market based LGD, implied LGD and work-out method as per the nature, applicability and data availability of credit risk exposures. Further, the system should be able to drill down the LGD estimation into industry wise, vertical wise, product wise, workout method wise, year wise/quarter wise/Other frequencies/, collateral-wise and offer additional drilldown options and reports.
---	---

the IT system for calculation of Loss given Default numbers for provisioning under ECL model.

Days past due (DPD) to be used for staging of Advances. For Corporate customers, Stage 1 will comprise of 0-59 days past due, Stage 2 will comprise of 60-89 days past due & Stage 3 will comprise of 90 days & above. For retail customers, Stage 1 comprises of 0-29 days, Stage 2 will comprise of 30-89 days past due & stage 3 will comprise of 90 days & above.

Solution to segregate retail and corporate asset class as per RBI definition taking into aggregate fund based and non-fund based exposure for domestic and overseas exposures and further segregate retail and corporate advances into Stage I, stage II and stage III advances as per guidelines.



Restructured Advances as per RBI circular has to be tagged as stage 3.

All Restructure Advances to be Marked as Restructure in System & subsequently to be tagged as Stage III.

Collateral coverage value against each customer advance needs to be generated in the IT system for calculation of Loss given Default numbers for provisioning under ECL model.

Appropriate logic needs to be developed in the system.

Existing interface and making necessary changes to upgrade interfaces between the proposed solution with the applications and systems mentioned :-	Finacle – Core Banking Solution (Domestic & Overseas) Treasury Application (ITMS) Manual Data (Excel Files) Balance Sheet Package Lending Automation Processing Solution (LAPS) Government Business Module (GBM) Any Other System
Solution should have the flexibility to cater for any change/ specific requirements (e.g. change in SBU, product grouping, split of profit centre, change of GL codes and etc.)	
The solution should make it possible to configure accounts code to be in line with the Bank's chart of accounts based on e.g. transaction type, sub-type, sub-portfolio, currency, branch, etc.	
The solution should be able to generate journal entries with assigned DR/CR side of accounts based on posting transactions (EIR/Impairment, provisions, unwinding and interest/fee revenue) with changes in balances as posted amount and pre-configured rules.	
Solution should ensure that each posting transaction should be assigned with account number based on accounts configuration	
Solution should output following components as part postings: transaction type, sub-type, DR/CR account type currency type, positive or negative sign of the transaction	
To facilitate generation of accounting entries and automate the entire process to the maximum extent so as to avoid / ensure minimal manual interventions.	
To generate reports and dash boards as per regulatory (RBI) specifications/disclosure requirements both under XBRL and other formats as and when required.	
Solution should generate the report for recognition / de- recognition of financial assets at any point of time as per the Ind AS requirement with justification.	
Solution should generate report of classification of financial liabilities as per Ind AS requirement	
System should calculate all outputs, i.e. ECL, EIR, Fee amortization / income adjustment number at account level. The same needs to be stored at account level and be made available as accounting entry to be posted as adjustment into the bank's GL.	
User should be able to choose periods on the user interface between which attribution/reconciliation analysis needs to be run.	
Reconciliation should be a readymade feature and not something that requires implementation services, coding or programming.	
Solution should support recording of services offered to the customer as part of income or expense if the charges are waived off/discounted.	
The system should allow for building a workflow process for building, approval and modification of rules to ensure it complies with the banks approval and audit process	
Ability to change segmentation rules within a system and controlled environment. For example, when changes to business models, launch of new products, restructuring of portfolio, etc. occurs, the solution is flexible in redefining the new segmentation strategy, which will feed into the development of ECL models.	
Ability to define customized business rules that is based on internal significant financial assets segmentation. For example, special accounting rules for significant loans, regulatory treatment of selected financial assets, loss provisions, etc.	
All reports should support drill down capability to individual account / loan level. The reporting tool should support in memory processing such that drill down is available on click only.	
The solution should have pre-defined regulatory disclosure templates and pre-defined management reporting templates which can be readily generated. Where additional disclosures are required, the solution should be flexible and capable of amending defined templates to incorporate the new requirements. This should include the ability to readily define the data requirements to support the new disclosures, within a controlled environment.	

The tool should have the ability to use In-Memory Analytics to enable users to conduct fast, thorough exploration and analysis on all data across different data sources. The offering should have integrated modules for in-memory analytics comprising data preparation, exploration, visualization and administration.

The tool should provide Self-Service platform without the need to build a semantic metadata layer for End users, thus reducing dependency on IT

The tool should provide Scalability and High Performance leveraging cost-effective architecture.

The tool should allow data to be accessed from any industry standard data source using native connectors and load the same in to memory.

The tool should allow data load jobs to be scheduled to automate the process of loading data into memory

The tool should have the ability for Interactive report viewing for information consumers using iOS and Android devices using a native application most popular gestures and capabilities, including zoom, swipe, etc., to optimize ease of use and user engagement.

The tool should provide support for Mobile Device Management (MDM) integrating with 3rd party technologies

Ability to process multiple data files from multiple sources to the defined data model supporting model development. This includes within a system environment, the ability to handle exceptions raised during the Extract, Transform and Load ("ETL") process. The solution should thus include tools, capabilities to assess data quality issues (e.g. missing values, outliers, wrong format, inconsistencies, etc.).

Solution includes tools to manage the data used for modelling activities including ability to manage data from other / new sources and transform the data from different sources and format into a common data structure and format. Ability to establish a data dictionary to support developmental activities

The solution should support data error handling, data substitution or data enrichment rules through a GUI interface which can be configured by business user.

The tool should provide a Central Metadata Repository to manage the flow and traceability of data and structures.

The solution includes a single data store and central reference on the data requirements necessary to support modelling activities.

The Tool should provide for Integrated workflow scheduling, automatic load balancing and grid computing support.

The tool should provide for creation of user-defined external transformation functions

The tool should provide pre-build functionalities for the following:

The tool should have documentation available in the form of notes.

The tool should have enhanced mapping features that includes intelligent handling of data type conversions, easy and selectable customized mappings, and controlled propagation of changes to mappings.

The tool should have the ability to easily capture and display performance information such as real time, CPU time, memory use, input/output, and record count data, with the ability to display this information as a table or as a graph.

System shall be able to facilitate bulk data movement

System shall be able to join data from multiple sources and support for concurrent processing of multiple source data streams, without writing procedural code

System shall be able to check incoming data for quality, reliability, consistency and validity, and then transform as required.

System shall facilitate data profiling based on dynamic, user defined validation rules and support identification of user defined „events" to trigger alerts (through email reports) to authorities.

System shall support In-memory data handling

The solution should be able to keep the historical record of impairment trend for analysis at least for past 10 Years.

The solution should have the capability to automate the reporting of differences due to changes in the models vs. re- calibration of the models. The system shall calculate the quantification effect due to the change in business models (if it fits in exceptional cases)

The solution should have the capability to reconcile differences between the capital calculations and the IFRS 9 / IND AS calculations.

The solution should be able to generate accounting entries for the allowances on a granular level allowing the accounting positions to be used for IFRS 7 reporting.

The solution should cover the disclosure requirements as set out by IFRS 9

The solution should have a standard reports build-in as required by IFRS 9. Please provide the full list of IFRS 7 and 9 disclosures that is part of the solution. System should be able to provide reporting formats as prescribed by RBI as and when prescribed and incorporate differences if an

The solution should have the ability to produce IFRS 7 & 9-compliant disclosures for management reporting as defined by different business users

The solution should support the new disclosures requirement under IFRS 7 e.g. the new ECL reconciliation (movement among the stages), total carrying amount of stage 1 to stage 2/3 and stage 2/3 to 1 and others as required from time to time

The solution should generate credit quality analysis by credit risk rating grades, the gross carrying amount of financial assets and the exposure to credit risk on loan commitments and financial guarantee contracts. Financial assets include: loans & advances at amortized cost, debt investment securities at amortized cost, debt investment securities at FVOCI

The solution should generate reconciliations arising from ECL from opening to closing balance by class of financial instrument and products.

The solution should generate reconciliations of changes in the net carrying amount of credit-impaired loans and advances.

The solution should generate the contractual amount outstanding on financial assets that were written off during the reporting period and are still subject to enforcement activity.

The solution should generate modified financial assets reports: a) amortized cost before modification b) net modification gain or loss recognized for financial assets

The solution should generate concentrations of credit risk reports by sector and by geographic location

The solution should allow users to perform drill down for details & analysis from the disclosure reports

The solution should allow custom disclosure report formats created by users to be plugged-in for report creation

The solution should allow additional disclosure reports to be tailored to internal management reporting

The solution should have the ability to compute the gain/loss incurred upon any type of type of modification to the instruments i.e. comparison between the new discounted cash flows (using OEIR) vs. original discounted cash flows before restructuring.

The solution should have the ability to compute the gain/loss incurred upon any type of modification to the instruments i.e. comparison between the new discounted cash flows (using OEIR) vs. original discounted cash flows before restructuring.

The solution should allow report format configuration where the user can define the dimensions of each report

The solution should allow the scheduled generation of reports and allow configuration of the scheduler to the following but not limit to: a) Monthly, b) Quarterly, c) Yearly

The solution should have the ability to create reports in multi currencies at user discretion

The solution should be able to provide consolidated reports of multi entities.

Solution should allow users to create reports as per their requirement - It should be possible to create reports based on all the data available in the system. System should allow flexible ways for user to create reports under authorization scheme.

At least either of the options should be allowed

a. Option to create reports definitions using a form of a transparent script language (e.g. SQL) and be able to state the following:

b. Content of the reporting, i.e. fields, aggregating functions, scope (e.g. particular Risk Portfolio)

c. Groups of users authorized to view the particular report

d. Approach to generation (automatic or on demand generation);

e. Parameters of the report (i.e. what information should be indicated by a User generating the report, e.g. date of data).

f. Option to create report definitions using a report wizard that utilizes a predefined set of data.

g. It should be possible to export reports in any form of files required by the Bank directly from GUI

Reporting

1. Provision related

1.1. Allowance & Provision by Line of Business

1.2. Allowances - Stage-wise

1.3. Provision - Stage-wise

1.4. Stage Reassignment Movements - changes in provision due to manual stage re-assignments

1.5. ECL Variance Across Runs by Line of Business

1.6. Recoveries and write off

1.7. Segment Wise Allowance and Provision

1.8. Stressed provisions Across Business Lines

1.9. Provision comparison Across Business Lines

2. Stage determination Related

2.1. Stage Classification

2.2. Stage Classification by Line of Business

2.3. Stage Transition Matrix

2.4. Stage Classification Trend

2.5. Stage Comparison

2.6. Stage Classification by Product Type

2.7. Stage Classification by Customer Type

2.8. All the reports on stage determination should be available post manual reassignment separately

3. Cohorts Composition

3.1 Cohorts Composition across Stages

3.2 Proportion of Cohorts and Non Cohorts in Stage processing

3.3 ECL Cohorts Composition across Stages

4. Trend Analysis

4.1. Allowance & Provision Trend

4.2. Allowance Trend - Stage-wise

4.3. Provision Trend - Stage-wise

4.4. Allowance and Provision Trend Absolute and Percentage Terms

4.5. Allowances for Credit losses by Line of Business

5. Credit Quality Analysis - the reports are required to identify if there is consistency in quality of the assets; whether the volume of ECL is commensurate with its corresponding credit quality grade and stage by portfolio

5.1. Amortized Cost Portfolio

5.2 FVOCI Portfolio

5.3 Portfolio Composition across Various Classification

5.4 Carrying Amount across Credit Ratings

5.5 Account Classification Reassignments

6. Concentration Analysis

- 6.1 ECL Concentration across Line of Business
- 6.2 ECL Concentration across Customer Type
- 6.3 Concentration across Ratings
- 6.4 Concentration across DPD Bands
- 6.5 Concentration across 12 Month PD Band
- 6.6 Concentration across Credit Score
- 6.7 Vintage Analysis
- 6.8 Others

- 7.1 Historical Average Transition Matrix – Wholesale
- 7.2 Historical Average Transition Matrix – Retail
- 7.3 Predicted Transition Matrix – Wholesale
- 7.4 Predicted Transition Matrix – Retail
- 7.5 Impaired Assets across Business Lines
- 7.6 Loss Forecast for Wholesale Exposures
- 7.7 Loss Forecast for wholesale exposures by Time period
- 7.8 Loss Forecast for Retail Exposures
- 7.9 Loss Forecast for Retail Exposures by Time Period.

8. Reconciliation - ECL Reconciliation Analysis: should provide a visual description of the ECL movements between two reporting dates.

9. IFRS 7 reporting

10. Financial reporting – Statutory reporting to RBI (both under XBRL and Other Formats as and when required by RBI and other regulators) such as

- 10.1 RBS Returns, OSMOS Returns, RCA - III
- 10.2 Form A
- 10.3 SFR III D
- 10.4 Form VIII
- 10.5 Form X
- 10.6 DSB (Monthly, Quarterly)
- 10.7 Basic Statistical Returns VII
- 10.8 Basic Statistical Returns II
- 10.9 Basic Statistical Returns IV
- 10.10 Any Other regulatory reports prescribed by RBI

11. MIS Reporting – Reporting for expenses and revenues, profitability and Asset & Liability etc. at:

- 11.1 Branch level
- 11.2 Zonal level
- 11.3 Central office level
- 11.4 Product level
- 11.5 Customer level
- 11.6 Account level
- 11.7 Employee level
- 11.8 Profit centre and cost centre level

12. Any other reports as required by the Bank.

Solution should be able to implement the following accounting standards:-

- 1. Presentation of Financial Statement
- 1.1 IND AS1 - Presentation of Financial Statement
- 1.2 IND AS7 - Statement of Cash Flows
- 1.3 IND AS8 – Accounting Policies, changes in Accounting Estimates and Errors.
- 1.4 IND AS10 – Events after the reporting period.
- 1.5 IND AS33 – Earning Per Share
- 1.6 IND AS 34- Interim Financial Reporting

2 Assets

- 2.1 IND AS2 – inventory
- 2.2 IND AS16 - property plant and equipment
- 2.3 IND AS17 –Leases
- 2.4 IND AS20 - Govt. Grants
- 2.5 IND AS23 - Borrowing cost
- 2.6 IND AS36- Impairment of assets
- 2.7 IND AS38 - Intangible assets
- 2.8 IND AS40 - Investment property
- 2.9 IND AS105 - Non-current assets held for sale and discontinued operations

3 Liabilities and expenses

- 3.1 IND AS 12- Income tax
- 3.2 IND AS 19- Employee Benefit
- 3.3 IND AS 37-Provision, contingent liabilities and contingent assets
- 3.4 IND AS 102 - Share Based Payments

4. Incomes

- 4.1 IND AS 11 – Construction contracts, IND AS 18- Revenue, IND AS 115- Revenue from contracts with customers

5. Disclosure Standards

- 5.1 IND AS 24- Related Party Disclosures
- 5.2 IND AS 108 – Operating Segments

6. Industry /Economy Standards

- 6.1 IND AS 21 – The effects of changes in Foreign Exchange rates
- 6.2 IND AS 29- Financial Reporting in hyperinflationary
- 6.3 IND AS 41 – Agriculture
- 6.4 IND AS 114 – Regulatory Deferral Accounts
- 6.5 IND AS 104 – Insurance Contracts
- 6.6 IND AS 106- Exploration for and evaluation of mineral resources

7. Financial Instruments

- 7.1 IND AS 32 – Financial Instruments (Presentation)
- 7.2 IND AS 107 Financial Instruments (Disclosure Requirements)
- 7.3 IND AS 109- Financial Instruments
- 7.4 IND AS 113 - Fair Value Measurements

8 Business Combination and Consolidation

- 8.1 IND AS 110 – Consolidated Financial Statements
- 8.2 IND AS 27 – Separate Financial Statement
- 8.3 IND AS 28 Investments in Associates and Joint Ventures
- 8.4 IND AS 111 – Joint Arrangements
- 8.5 IND AS 112 – Disclosure of Interests in other entities.
- 8.6 IND AS 103 – Business Combination
- 8.7 IND AS 101 – First Time adoption of Indian Accounting standards

Solution to support new GL requirements and change in GL mapping as per Ind AS.

Solution should be able to handle multiple entities (All CBS Branches, Domestic Branches, Overseas Branches, Treasury, Central Office, MOC, MOC Reversal, Global etc.)

Solution should have capability to handle multi currencies at entity level and consolidated level

System should support event based accounting treatments based on IFRS9

Solution should be able to generate business events and send to the Bank's Accounting Rule Engine (ARE) to generate accounting entries. Business events should at least contain information such as type of transaction, accounting event code, amount, any other GL dimensions or attributes as required by ARE system, etc. in order to facilitate creation of accounting transactions.

Solution should be able to generate report showing the accounting entries passed/ to be passed for Ind AS requirement with adequate justification.

Solution should facilitate generation of Profit and Loss account, Cash flow statement, Segment reporting, Other Comprehensive Income account, Balance sheet, financial asset ledger etc., Profitability reports (Domestic and Overseas branches), Sector wise non-fund based reports, CRAR reports as per the Ind-AS requirements., Key Financial Ratios, Disclosures Statements as per Ind-AS requirements, ACB & Board Memorandum, Abridged Balance Sheet. System should be capable of generate the stated reports for All CBS Branches, Domestic Branches, Overseas Branches, Treasury, Central Office, MOC, MOC Reversal, Global etc.

Facilitate consolidation & generation of balance sheet of the Banking group.

For all the GL codes System should be able to maintain corresponding tax base amount, which can be achieved using

- a) Maintenance of all the tax rules in the system
- b) Maintenance of a mapping of GL codes to corresponding tax base amount.
- c) System should have the capability to provide both book base and tax base amount in a report, if required.

User should be able to attach files and comments to rule flows on the GUI to enable them to document the reason for changes and any substantiating documentation

System should be capable for uploading of data from Finacle in uploadable format (text etc.)

System should be capable for manual feeding of data of central accounts, MOC, MOC Reversal etc.

The application should be implemented centrally incorporating required functionalities.

The application is to be integrated with various source systems

The Application should be implemented on mapping Rule based Consolidation and should be seamlessly automated

The Application should support Multi-GAAP (Generally Accepted Accounting Standards).

The Application should support multi currency accounting.. The application should be configured to translate the balances into INR or any other desired currency or vice versa.

To implement reports for end users like Financial Statements, Schedules to the Financial Statements, Ad hoc Reporting and Account inquiries.

The Application should be implemented with provision for back dating of transactions and also updating historical values

Multiple sets of same books of accounts to be permitted as per different accounting principles

Ability to define multiple legal entities

Ability to define scalable Organization Structure

Ability to attach and store scanned document

System should support historical data migration as well retrieval

To develop and establish ETL from various sources/legacy systems

Define the chart of accounts in such a manner that account balances can be tracked by following dimensions. These dimensions can be further enhanced during the actual implementation phase:

- 1.Entity
- 2.Branch
- 3.Line of Business
- 4.Product
- 5.Ledger/Account code
- 6.Source
- 7.Department
- 8.Inter-company, Future use

The system should enable mapping of chart of account segments and respective segment values of transaction systems with the chart of accounts and the respective segment values of EGL system. The mapping should be possible one-to-one or many-to-one. This should be supported with well defined interfaces

Setup different analysis codes one level below the GL account code combination without increasing the size of chart of accounts

Define parent child relationship at multiple levels. The system should not allow posting to the parent account.

Group the accounts by different types (user defined) e.g. assets, current assets, etc.

Centralized account maintenance capability

Cost/Profit center wise analysis

Define automatic and default account assignments that the bank always use to post to a particular accounting dimension

Define statistical/memo accounts for collecting Non-financial information

Ability to create and modify segment roll-ups (hierarchical relationships). A hierarchy builder to support the multilevel changes with drag and drop facilities

Parent level /child level group based reports Ability to upload chart of accounts to legacy systems for validating purposes

Flexibility in defining accounting periods

Flexibility for daily / monthly / quarterly (user defined periods)

Provision of holiday marking.

Multiple calendar period should be in open status and available for posting

The Solution should support seamless integration with the Banking & Financial system and other systems.

Have separate period closing capability for each Ledger

System should support both soft closing / Hard closing

System should allow Reopening of closed period subject to valid authorization

System should support multiple currency

System should have provision to set as default currency

System to support statistical transaction to capture Financial /non financial information

Posting should be allowed only for balanced transactions. However, unbalanced transactions should be saved, if required.

Upload transactions from a spread sheet with active edit, control, checks and validations (as if its captured online).

Copy existing transactions, edit and use them for new input Process transactions (with restricted access) related to prior periods.

Process transactions (with restricted access) related to Future periods

Post transactions single or by batch

Post transactions in real time and batch

Restrict data entry to those accounts that are marked as control accounts

Provide immediate, on-line pop-up to the user of erroneous transactions. Advise reason for error and provide the ability to enter corrections on-line.

The system should support simultaneous accounting for multiple reporting requirements

Ability to define exchange rates with multiple currencies and also vis-à-vis base currency

Ability to process transactions entered in foreign currency based on the exchange rates definition, in an on-line mode
Tracking and reporting of all foreign currency transactions in transaction currency and base currency
Allows automatic / manual matching of debit and credit transactions in certain GL accounts
System should auto generate batch number.
To have certain transaction templates so that the same is used during the transaction entry.
Setup recurring transactions with amounts or formula
Generate recurring transactions and modify the generated transaction if required
Setup automatic and manual reversing transactions. For, example, create automatic reversal transactions upon opening a period of accrual transactions
Posting to periods irrespective of transaction date (in the transaction entry there must be field to specify to which period the transaction will be posted)
Transactions should be in a position to be reversed or cancelled with appropriate authorization
Reversal transactions: These transactions are provisional transactions and get updated in the books of accounts. It has to capture an additional date called "Reversal Date". On the date of reversal it should automatically reverse those transactions
Allow Mass Reversal of transactions based on user defined parameters
Transactions originating in other systems or sub ledgers may be required to be posted in the general ledger either in detail or in summary. This could be done for individual journal as well as auto-posting
Receive direct journal feeds from various systems, such as Finacle etc
System should have the ability to approve the entries generated using either batch upload or through work flow management
The system should enable definition of levels of hierarchy for approving entries and avoid posting without adequate approval
It should support maker/ checker concept.
More than one level of authorization based on the amount /account level.
Set up default accounting rules for inter organization transaction processing
Ability to automatically generate inter organization entries and hold awaiting authorization. Auto reconciliation should be well defined
Ability to provide inter-organization transaction summary register by business area
Ability to identify the inter-organization balances .Close and open the year automatically based on user defined parameters
Keep adjusting period for audit adjustments and other financial transactions after the year close
Generate closing exception reports
Ability to maintain an automatic update for retained earnings when closing the ledger at year end
Ability to ensure at year-end close that all entries are balanced and that all periods have been closed
Ability to allow different organization/levels in the organisation to close independently
Ability to re-open prior periods and make adjusting financial entries, re-run allocations using that period's allocation methodology and post allocation methodology changes.
Ability to zero out P&L accounts for next year processing during year-end close
Ability to carry forward prior year-end Balance Sheet account balances to new fiscal year as beginning balances during year-end close

Ability to prepare consolidated financial statements annually taking subsidiaries and associates company"s financial statements into consideration
Ability to generate elimination entry for intercompany transactions automatically
Ability to generate minority interest for subsidiaries and associates from the system
Flexibility in defining and generating report in any currency.
Consolidation based on various user defined grouping i.e. Branch/Region/ Zone/STC etc.
Segment wise consolidation
Perform on-line transaction inquiries for the following: Range of accounts or segments Summarized at various levels of parents / summary accounts For a period or for a range of periods Actual or budget or both with variance Period to date, year to date or quarter to date Perform budget vs. actual with variance inquiry Inquire account balances for net change and period balances
Perform cross module drill down. From account balance to summarized journal to detailed journal line and finally to the transaction window where it is input
Print and view posted transaction entries (historical transaction entry listing) by different criteria such as: Transaction Number : Period Amount Date of Entry Transaction source, category, type
Apart from the above system should support various user defined Ad-hoc Queries
Should support following reports (but not limited to): Balance Sheet (bank and consolidated) Profit and Loss (bank and consolidated) Schedules for Balance Sheet and Profit & Loss (bank and consolidated) Abridged Balance Sheet
System should support all the above reports or the present as well as previous periods
Generate transaction detail report for a single account or for a range of account by: Year to date Period to date Summarized Detailed
System should have capability to generate the report even after initialization of data during year end closing. During year end closing All the Income and Expenditure heads balance get initialized so the balance in all the accounts when extracted will be zero in the new financial year so system should have the logic to handle this scenario.
Facilitate Generation of trial balance summarized and detailed on prescribed periodicity
Facilitate Generation of trial balance summarized : by account segment Print transaction vouchers from the system before and after posting with the status shown separately
Facilitate Production of general ledger reports for user selected accounts and periods (General Ledger Scrutiny)
Reprint reports for prior periods
Financial Statements -Print Financial as output
Financial Statements - Maintains Multiple Past Years Financial Data
Financial Statements -This Month Versus Last Month, as well as same month/day previous year

Financial Statements -Year to Date Versus Last Year
Financial Statements -Year to Date Versus current and other Budgets
Financial Statements -Variance Expressed as Percentage or value
System should have the capability for generation of various user defined reports with setting rules for rounding off amount as desired.
All the reports should be supported in excel/xml/ PDF / CSV formats etc.
System should support scheduling of batch jobs for auto generation of reports and mailing to Branches /ROs/ZOs
System should support classification and reclassification (IFRS 9/Ind AS 109) of the financial assets and liabilities and associated accounting impact
Ability to consider only relevant transactions for the purpose of ECL Impairment computations for the financial assets prescribed under IFRS 9/Ind AS 109
System should provide pre-defined (out of box) rules for IFRS 9/Ind AS 109 Stage 1, Stage 2 & Stage 3 and allow for user defined rules as well
System should support workflow features and audit facility for overrides for classification/reclassification/stage determination
System should able to compute 12 month ECL & Lifetime ECL.
System should support provisions based current RBI norms, EIR calculation of credit impaired assets, calculation of credit shortfall based on forecast cash flows, rating migration and collateral value. System should provide out of box methodologies for computation of 12 month ECL & Lifetime ECL as well as allow user defined methodologies.
System should support computation of Effective Interest Rate and Fair value for IFRS 9/Ind AS 109
System should support inward and outward interfaces with other systems in bank
System should provide standard reports for IFRS 9/Ind AS 109
System should be able to recognize income, gains, losses of hedged and non hedged derivatives based on IFRS 9/Ind AS 109 requirements

4.2 Facility Management Services

The FM support should be deployed at Bank's premises, for supporting the solution primarily for 12 hours (viz. 8 am to 8 pm) however in case of exigency the Bidder shall provide and maintain requisite skilled resources for extended hours as required.

The brief scope for the FM resources is as under:

- a. Responsible for maintaining the System and Application uptime of the Indian Accounting standards (Ind-AS) solution as specified by the Bank.
- b. Should have knowledge of Database/ System software/Ind-AS solution and related Operations required for maintaining the uptime of the solution.
- c. Co-ordinate with Bank's IT Team or teams identified by the Bank, Field staff and for resolving the infrastructure related issues of Indian Accounting standards (Ind-AS) solution.

- d. Performing the Backup/restoration/patch/updates/upgrades of related activities pertaining to the OS/APP/DB/WEB Servers and related peripherals of Indian Accounting standards (Ind-AS) solution & related servers.
- e. FM personal will be responsible for Log shipment, Backup, DC, DR, NDR cutover drill, Restore-implementation of disaster recovery plan, if requires as advised by the Bank.
- f. User Management /Maintenance of Indian Accounting standards (Ind-AS) solution.
- g. Follow the Incident reporting system of the Bank and updating the same.
- h. Log ticket with helpdesk for support related issues through any of the following mode: Telephonic, Email, Ticking Tool.
- i. Maintain log of all down calls for MIS purpose and provide required MIS/reports etc. to Bank as per bank's requirement.
- j. Provide daily, weekly, monthly, quarterly MIS reports to Bank in formats finalized during operations.
- k. Prepare necessary documentation for Indian Accounting standards (Ind-AS) solution.
- l. Work as per Standard Operating Processes defined by the Bank.
- m. The resource should be well acquainted with processes followed by bidder for various activities related to services offered to Bank.
- n. Escalate issues internally or to Bank's team for quick resolution of issues.
- o. Extend necessary support for special activities like Quarterly Disaster Recovery Drills, Information Security Audits or any other activities pertaining to RFP scope of work.
- p. Follow and implement change management process as per banks guidelines/policies.
- q. Bidder has to act as single point contact and to carry out necessary coordination (call lodge, follow-ups etc.) with all stake holders for smooth functioning of the solution deployed within stipulated time frame.
- r. Regular Patch Management of APP/OS/DB.

PART-V

5.1 CONTRACT PERIOD

The contract period for Procurement of Software for Implementation of Indian Accounting Standards (Ind AS) will be for a period of five Years from the date of Agreement (SLA).

SLA will cover performance and availability of the solution deployed for a period of five years from the date of acceptance by the bank. The performance of the vendor shall be reviewed monthly, if not found satisfactory, Bank may terminate the contract at its sole discretion by giving three months' notice without assigning any reasons. Any offer falling short of the contract period is liable for rejection. The vendor however shall keep the price valid for a period of two years from the date of agreement.

5.2 PERFORMANCE BANK GUARANTEE

The vendor, within 15 days from the date of purchase order will have to furnish a Performance Bank Guarantee, format as per Annexure-III of the RFP, issued by any scheduled commercial bank equivalent to 10% of the cost of the solution valid for 5 years with 3 months additional claim period from the date of purchase order. Upon furnishing the Performance Bank Guarantee, the EMD of the vendor shall be returned. The Performance Bank Guarantee shall act as a security deposit and either in case the vendor is unable to start the project within the stipulated time or start of the project is delayed inordinately beyond the acceptable levels or in the event of non-performance of obligation or failure to meet terms of SLA during the contract period, the Bank shall be entitled to invoke the Performance Bank Guarantee without notice or right of demur to the Vendor. Further, the Bank reserves the right to invoke the Performance Bank Guarantee in case the vendor is not able to fulfil any or all conditions specified in the document or is unable to complete the project within the stipulated time. This is independent of the LD on Delivery and installation.

5.3 PAYMENT TERMS

Purchase Order shall be placed by the Head Office. The successful bidder shall give acceptance within 7 days from the date of receipt of the order. However, Bank reserves right to cancel order, if the same is not accepted within 7 days from the date of receipt of order.

- No advance payment will be made.
- 90 % of Total cost of Implementation for Hardware with system software (OS) on delivery, installation and commissioning of Client Software, Communication equipments etc. and submission of invoice with proof of delivery, installation and successful commissioning.
- 10% of Total cost of Implementation for Hardware and System Software after 3 months of live run.

For Software:

After 100% roll out of the module purchased	70% cost
After completion of 1st year of warranty for module implemented	10% cost
After completion of 2nd year of warranty for module implemented	10% cost
After completion of 3rd year of warranty for module implemented	10% cost

ATS on software item shall be paid in quarterly arrear basis. Cost of respective module mentioned hereinabove includes Cost of module actually implemented.

5.4 PAYING AUTHORITY

The payments as per the Payment Schedule covered hereinabove shall be paid by the Head Office of UCO Bank. However, Payment of the Bills would be payable, on receipt of advice/confirmation for satisfactory delivery/ installation/re-installation, live running and service report from the concerned branches/ offices duly signed by the engineer and Bank official where the solution has been deployed. Further, the bidder has to submit the certificate of insurance covering all the risks during transit, storage, installation, commissioning, testing and handling including third party liabilities.

5.5 WARRANTY

The successful bidder should provide comprehensive warranty for proposed solution, including other software, associated modules and services required to meet the requirements in the RFP. The period of warranty shall be of 3 years with 2 years of AMC/ATS for the proposed hardware/Application.

5.6 PENALTY

The Bidder shall perform its obligations under the agreement entered into with the Bank, in a professional manner.

If any act or failure by the bidder under the agreement results in failure or inoperability of systems and if the Bank has to take corrective actions to ensure functionality of its property, the Bank reserves the right to impose penalty, which may be equal to the cost it incurs or the loss it suffers for such failures.

If the Bidder fails to complete the due performance of the contract in accordance with the specification and conditions of the offer document, the Bank reserves the right either to cancel the order or to recover a suitable amount as deemed reasonable as Penalty / Liquidated Damage for non-performance.

Any financial loss to the Bank on account of fraud taking place due to Successful Bidder, its employee or their services providers' negligence shall be recoverable from the Successful Bidder along with damages if any with regard to the Bank's reputation and goodwill.

Bank may impose penalty to the extent of damage to its any equipment, if the damage was due to the actions directly attributable to the staff of the Bidder

5.6.1 Penalties & Service Level Agreement

1. Bank expects that the Bidder shall be bound by the Service Levels described in this document.

2. The Bidder shall have to enter into "Service Levels Agreement" with Bank covering all terms and conditions of this tender while providing the service support and onsite support. Once go live of application, Indian Accounting Standards (Ind AS) services should be available on 365X24x7 basis and hence any technical problem should be resolved as per the response Time Matrix given below.

SL no	Severity	Severity Description Support for Software solution	Response Time	Resolution Time
1	Severity 1	If the call is pertaining to production and there is complete disruption of services resulting in non-functioning of business/ application operations. The operation is mission critical due to major disruption of business continuity.	Within 30 Min of call reported.	Within 1 Hrs of call reported
2	Severity 2	The issue is severe in nature but services are available with restricted operations and some manageable workarounds.	Within 30 Min of call reported	Within 2 Hrs of call reported.
3	Severity 3	Minor loss of service and the impact of the issue could be minor in nature which may require some workaround to bring the normal functioning.	Within 30 Min of call reported	Within 3 Hrs of call reported.

Bidder is expected to response and resolve issue within prescribed time frame based on the severity description mentioned above and needs to strictly adhere to Server Level Agreement (SLA).

The Bank would expect the bidder to commit to the service level assurances. The Bidder shall commit to maintain uptime of 99.95% and above per month.

The SLA will be reviewed on a monthly basis. Penalties will be applicable due to downtime of software application

The bidder shall guarantee 99.95% uptime. The Bidder shall be liable for penalties for uptime maintained below 99.95% in a month. Penalties for downtime of the application will be as per below mentioned table:

Level of Uptime Per Month	Penalty Charges
99.95% and above	No Penalty
99.00% and above but below 99.95 %	1 % of total cost of monthly payout
98.00% and above but below 99.00 %	2 % of total cost of monthly pay-out
97% and above but below 98.00 %	5 % of total cost of monthly pay-out
below 97%	10% of total cost of monthly payout

Bank will impose penalty for every instance of service un-availability Further if the number of downtime instances during a month exceeds 3 times, an additional 0.50% downtime will be reduced from uptime and the penalty will be calculated accordingly.

Penalties, if any shall be calculated for every quarter and recovered from the Annual Technical Support. For calculation of penalty during warranty period, ATS Cost will be considered which will be deducted from the payment being paid towards on-site support facility being availed during warranty period. Wherever applicable as stated above while effecting any payment, deduction towards LD payment will be made. Hence the bidder should raise the invoice deducting the penalty amount.

5.7 OEM Authorization

In case the successful bidder is not ready to provide the support during the warranty period, support will be provided by OEM directly or their other authorized partners for the remaining period of warranty of the product without any additional cost to the Bank. An authorization letter from OEM regarding this must be attached with the technical bid.

5.8 Adherence of Cyber Security Policy

Bidders are liable for not meeting the security standards or desired security aspects of all the ICT resources as per Bank's IT/Information Security / Cyber Security Policy. The IT /Information Security/ Cyber Security Policy will be shared with successful bidder. Bidders should ensure Data Security and protection of facilities/application managed by them.

The deputed persons should aware about Bank's IT/IS/Cyber security policy and have to maintain the utmost secrecy & confidentiality of the bank's data including process performed at the Bank premises. At any time, if it comes to the notice of the bank that data has been compromised/disclosed/misused/misappropriated then bank would take suitable action as deemed fit and selected vendor would be required to compensate the bank to the fullest extent of loss incurred by the bank.

Bidder has to agree and provide undertaking not to disclose any Bank information and will maintain confidentiality of Bank information as per policy of the Bank and will sign "Non-Disclosure Agreement" document provided by Bank.

The legal and regulatory requirements, including data protection, intellectual property rights, copy right, all the relevant regulations for sub-contracting; including the controls that need to be implemented shall be included in the supplier agreement.

All information resources (online/in-person) of the vendors and its partners shall be made accessible to Reserve Bank of India as and when sought.



Credentials of vendor/third party personnel accessing and managing the bank's critical assets shall be maintained and shall be accordance with bank's policy.

The Bank shall evaluate, assess, approve, review, control and monitor the risks and materiality of vendor/outsourcing activities and bidder shall ensure to support baseline system security configuration standards. The Bank shall also conduct effective due diligence, oversight and management of third party vendors/service providers & partners.

Vendor criticality assessment shall be conducted for all partners & vendors. Appropriate management and assurance on security risks in outsources and partner arrangements shall be ensured.

5.9 Patent Rights

- a. The Selected bidder shall indemnify the purchaser against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods, or any part thereof in India.
- b. The Selected bidder shall, at their own expense, defend and indemnify the Bank against all third party claims or infringement of intellectual Property Right,

including Patent, trademark, copyright, trade secret or industrial design rights arising from use of the products or any part thereof in India or abroad.

- c. The Selected bidder shall expeditiously extinguish any such claims and shall have full rights to defend it there from. If the Bank is required to pay compensation to a third party resulting from such infringement, the supplier shall be fully responsible for, including all expenses of the court and legal fees.
- d. The Bank will give notice to the Selected bidder of any such claim without delay, provide reasonable assistance to the Supplier in disposing of the claim, and shall at no time admit to any liability for or express any intent to settle the claim

5.10 PRICE

- a. The commercial bid must include all hardware equipments along with system configuration, Model no, part no & price tag covering warranty period of 3 year with 2 years of AMC. The Price Bid also must include all applicable taxes. The GST will be paid extra, wherever applicable on submission of actual Tax receipt. While filling up the price information in the commercial bid, Bidders to ensure that there are no typographical or arithmetic errors. All fields must be filled up correctly.
- B The Selected bidder is required to guarantee that exchange rate fluctuations, changes in import duty and other taxes will not affect the Rupee value of the commercial bid, over the validity period of the bid.
- C The Selected bidder shall keep the price valid for a period Two year from the effective date of Agreement. The Bank further reserves the right to reject any or all offers based on its own evaluation of the offers received, or on the basis of stability, capabilities, track records, reputation among users and other similar features of a Selected bidder.
- D Prices quoted by the selected bidder shall be in Indian Rupees, firm and not subject to any price escalation, if the order is placed within the validity period. Bidder shall pass on to the Bank all fiscal benefits arising out of reductions in Government levies viz. Excise duty, custom duty, GST etc.
- E The bidder should not assume any duty benefit / duty credit to be availed by the Bank after tender finalization hence commercials to be quoted accordingly.

5.11 LIQUIDATED DAMAGE

- 5.11.1 In case the delivery & installation is delayed beyond the scheduled time from the effective date, "Liquidated Damage for Late/incomplete Delivery & Installation"; 1.00(One) % of undelivered equipment (s) for each calendar week of delay or part thereof subject to maximum of 10% of order value will be imposed and will be deducted from the bill amount. UCO BANK reserves its right to recover these amounts by any mode such as adjusting from any payments to be made by UCO BANK to the bidder. Liquidated damages will be calculated per week.
- 5.11.2 If the successful Bidder fails to complete the due performance in accordance to the specification and conditions of the bid document, the Bank reserve the right to cancel the entire order placed on the selected bidder.
- 5.11.3 The Bank reserves the right to invoke the Performance Bank Guarantee submitted by the bidder.
- 5.11.4 LD is not applicable for reasons attributable to the Bank and Force Majeure. However, it is the responsibility/onus of the bidder to prove that the delay is attributed to the Bank and Force Majeure. The bidder shall submit the proof authenticated by the bidder and bank's official that the delay is attributed to the Bank and Force Majeure along with the bills requesting payment.

5.12 INSURANCE

- a. The selected bidder shall obtain adequate insurance cover against all kinds of risks including fidelity clause for the loss arising from acts of omission / commission / dishonesty of its employees and / or agents and would be required to keep the insurance policy alive at all times during the currency of the agreement.
- b. The loss-payee endorsement of such insurance policies shall be in favour of the Bank and it shall be ensured that the amount of claim, if any, shall be paid by the insurance company directly to the Bank.
- c. In-transit insurance of the products will be taken care of the selected bidder and cost for the same has to be Bourne by the selected bidder only.

5.13 FORCE MAJEURE

Force Majeure is herein defined as any cause, which is beyond the control of the selected bidder or the Bank as the case may be which they could not foresee or

with a reasonable amount of diligence could not have foreseen and which substantially affect the performance, such as:

- Natural phenomenon, including but not limited to floods, droughts, earthquakes, epidemics.
- Acts of any Government, including but not limited to war, declared or undeclared, priorities, quarantines, embargoes.
- Terrorist attacks, public unrest in work area.

Provided either party shall within ten (10) days from the occurrence of such a cause notify the other in writing of such causes. The Selected bidder or the Bank shall not be liable for delay in performing his/her obligations resulting from any Force Majeure cause as referred to and / or defined above.

5.14 Other Terms and Conditions of the RFP

- a. **Signing of the Agreement:** Successful Bidder(s) shall be required to enter into a Service Level Agreement (SLA) provided by Bank within 7 days of the award of the work or within an extended period as may be specified by the Bank. The agreement shall include systems & procedures to be adopted by the Service Provider(s) as desired by the Bank.
- b. The SLA shall be based on the requirements of this RFP, the terms and conditions of purchase order, the letter of acceptance and such other terms and conditions as may be determined by the Bank to be necessary for the proper performance of the work in accordance with the Bid and the acceptance thereof, with terms and conditions contained in a Memorandum of Understanding to be signed at the time of execution of the Form of Contract.

The bidder will also sign a Non-Disclosure Agreement with the Bank on a format prescribed by the Bank.

- c. **Cost of preparation and submission of bid document:** The bidder shall bear all costs for the preparation and submission of the bid. Bank shall not be responsible or liable for reimbursing/compensating these costs, regardless of the conduct or outcome of the bidding process.
- d. **Erasures or Alterations:** The Bid should contain no alterations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case corrections should be duly stamped and initialled / authenticated by the person/(s) signing the Bid.

- e. Preliminary Scrutiny: Bank will scrutinize the offers to determine whether they are complete, whether any error has been made in the offer, whether required technical documentation has been furnished, whether the documents have been properly signed and whether price bid has been quoted as per prescribed method. Offers not conforming to the prescribed guidelines and or with incorrect information or not supported by relevant documentary evidences wherever called for, would be summarily rejected. However, Bank, at its sole discretion, may waive any minor non-conformity or any irregularity in an offer. Bank reserves the right for such waivers and this shall be binding on all bidders.
- f. The Bank reserves the right to modify any terms, conditions and specifications of this request for submission of offer and to obtain revised bids from the bidders with regard to such changes. The Bank reserves its right to negotiate with any or all bidders. The Bank reserves the right to accept any bid in whole or in part.
- g. The Bank reserves the right to reject any or all offers based on its own evaluation of the offers received, or on the basis of stability, capabilities, track records, reputation among users and other similar features of a bidder. When the Bank makes any such rejection, the Bank will not be bound to give any reason and/or justification in this regard to the bidder. The Bank further reserves the right to reject any or all offers or cancel the whole tendering process due to change in its business requirement.
- h. Clarification of Offers: To assist in the scrutiny, evaluation and comparison of offers/bids, Bank may, at its sole discretion, ask some or all bidders for clarification of their offer/bid. The request for such clarifications and the response will necessarily be in writing and no change in the price or substance of the bid shall be sought, offered or permitted. Any decision of BANK in this regard shall be final, conclusive and binding on the bidder.
- i. Jurisdiction: The jurisdiction of the courts shall be Kolkata.
- j. Publicity: Any publicity by the bidder in which the name of Bank is to be used should be done only with the explicit written permission of Bank. The Successful bidder shall not make or allow making a public announcement or media release about any aspect of the Contract unless bank first gives the Successful bidder its prior written consent.
- k. Non-Transferable Offer: This Request for Proposal (RFP) is not transferable.

- i. The products provided by the bidder for the proposed solution must be legally obtained. The bidder is solely responsible for any legal obligation related to licenses during contract period for the solution proposed and Bidder shall give indemnity to that effect.
- m. The products are considered accepted (Commissioned and Operationalized) after signing the Acceptance Test Plan (ATP) document jointly by the representative from the Bank and representative of the bidder.
- n. Bank shall be under no obligation to accept the lowest or any other offer received in response to this offer notice and shall be entitled to reject any or all offers without assigning any reason whatsoever. Bank has the right to re-issue tender/bid. Bank reserves the right to make any changes in the terms and conditions of purchase that will be informed to all bidders. Bank will not be obliged to meet and have discussions with any bidder, and / or to listen to any representations once their offer/bid is rejected. Any decision of Bank in this regard shall be final, conclusive and binding upon the bidder.

5.15 COMPLETENESS OF THE PROJECT

The project will be deemed as incomplete if the desired objectives of the project as mentioned in Section "Scope of Work" of this document are not achieved.



5.16 INDEPENDENT SERVICE PROVIDER:

- a. The selected service provider and/or its employees, agents and representatives shall perform all services hereunder as an Independent Service Provider on a non-exclusive basis and nothing contained herein shall be deemed to create any association, partnership, joint venture or relationship of principal and agent or, master and servant or, employer and employee between the parties hereto or any affiliates or subsidiaries thereof or, to provide either party with the right, power or authority, whether expressed or implied to create any such duty or obligation on behalf of the other party. Service provider acknowledges that its rendering of services is solely within its own control subject to the terms and conditions agreed upon and agrees not to hold itself out to be an employee, agent or servant of the Bank or any subsidiary or affiliate thereof.
- b. Service Providers personnel, employees, sub-contractors of the Service Provider etc. have no authority/ right to bind the customer in any manner. It is also clarified that the personnel or employees being provided by service provider shall be employed solely by service provider and governed by terms of service provider's employment and service provider shall be solely

responsible and liable in the event of any adverse claim of whatsoever nature made on the Bank by the employees/ sub-contractor of service provider.

- c. Service provider shall be responsible for managing the activities of the personnel or the personnel of their subcontractors/franchisees and will be accountable for both. Service provider shall be vicariously liable for any acts, deeds or things done by the employees, agents, contractors, subcontractors, and their employees and agents, etc. which is outside the scope of power vested or instructions issued by the Bank. service provider shall be the principal employer of the employees, agents, contractors, subcontractors etc. engaged by service provider at Bank establishments and shall be vicariously liable for all the acts, deeds or things, whether the same is within the scope of power or outside the scope of power, vested under the purchase contract to be issued for aforesaid tender.
- d. No right of any employment shall accrue or arise, by virtue of engagement of employees, agents, contractors, subcontractors etc. of selected bidder's company, for any assignment under the purchase contract to be issued for this tender. All remuneration, claims, wages, dues etc. of such employees, agents, contractors, subcontractors etc. of selected bidder's company shall be paid by selected bidder's company alone and the Bank shall not have any direct or indirect liability or obligation, to pay any charges, claims or wages of any of your employee, agents, contractors, and subcontractors, etc. selected bidder's company shall hold the Bank, its successors, Assignees and Administrators fully indemnified and harmless against loss or liability, claims, actions or proceedings, if any, that may arise from whatsoever nature caused to the Bank through the action of your employees, agents, contractors, subcontractors etc. However, service provider would be given an opportunity to be heard by the Bank prior to making of a decision in respect of such loss or damage.

5.17 INDEMNITY

Selected bidder shall indemnify, protect and save the Bank and hold the Bank harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings, (including reasonable attorney fees), relating to or resulting directly or indirectly from

- i. an act or omission of the selected bidder, its employees, its agents, or employees of the consortium in the performance of the services provided by this contract,
- ii. breach of any of the terms of this RFP or breach of any representation or warranty by the Vendor,

- iii. use of the deliverables and or services provided by the Vendor,
- iv. Infringement of any patent, trademarks, copyrights etc. Or such other statutory infringements in respect of all components provided to fulfil the scope of this project.

Vendor shall further indemnify the Bank against any loss or damage to the Bank premises or property, loss of life, etc., due to the acts of the Vendor's employees or representatives. The Vendor shall further indemnify the Bank against any loss or damage arising out of claims of infringement of third-party copyright, patents, or other intellectual property, and third-party claims on the Bank for malfunctioning of the equipment or software or deliverables at all points of time, provided however,

- i. the Bank notify the vendor in writing immediately on becoming aware of such claim,
- ii. the Vendor has sole control of defence and all related settlement negotiations,
- iii. the Bank provides the Vendor with the assistance, information and authority reasonably necessary to perform the above, and
- iv. The Bank does not make any statement or comments or representations about the claim without prior written consent of the Vendor, except under due process of law or order of the court.

It is clarified that the vendor shall in no event enter into a settlement, compromise or make any statement (including failure to take appropriate steps) that may be detrimental to the Bank (and/or its customers, users and service providers) rights, interest and reputation. Vendor shall be responsible for any loss of life, etc., due to acts of Vendor's representatives, and not just arising out of gross negligence or misconduct, etc., as such liabilities pose significant risk. Vendor should take full responsibility for its and its employee's actions.

The vendors should indemnify the Bank (including its employees, directors or representatives) from and against claims, losses, and liabilities arising from:

- Non-compliance of the vendor with Laws / Governmental Requirements
- IP infringement
- Negligence and misconduct of the Vendor, its employees, and agents
- Breach of any terms of RFP, Representation or Warranty
- Act or omission in performance of service.

Indemnity would be limited to court; tribunal or arbitrator awarded damages and shall exclude indirect, consequential and incidental damages. However indemnity would cover damages, loss or liabilities suffered by the Bank arising out of claims made by its customers and/or regulatory authorities.

The vendor shall not indemnify the Bank for

- i. Any loss of profits, revenue, contracts, or anticipated savings or
- ii. Any consequential or indirect loss or damage however caused, provided that the claims against customers, users and service providers of the Bank would be considered as a "direct" claim.

5.18 PUBLICITY

Any publicity by the selected bidder in which the name of the Bank is to be used should be done only with the explicit written permission of the Bank.

5.19 COMPLIANCE TO LABOUR ACT

As per Government (Central / State) Minimum Wages Act in force, it is imperative that all the employees engaged by the bidder are being paid wages / salaries as stipulated by government in the Act. Towards this, Bidder shall submit a confirmation as per format provided in **Annexure XVIII** of the RFP.

Successful Bidder shall be the principal employer of the technical resources, employees, agents, contractors, subcontractors etc. engaged by Successful Bidders and shall be vicariously liable for all the acts, deeds or things, whether the same is within the scope of power or outside the scope of power, vested under the contract to be issued for this tender

5.20 PRIVACY & SECURITY SAFEGUARDS

The Selected bidder shall not publish or disclose in any manner, without the Bank's prior written consent, the details of any security safeguards designed, developed, or implemented by the selected bidder under this contract or existing at any Bank location. The Selected bidder shall develop procedures and implementation plans to ensure that IT resources leaving the control of the assigned user (such as being reassigned, removed for repair, replaced, or upgraded) are cleared of all Bank data and sensitive application software. The Selected bidder shall also ensure that all subcontractors who are involved in providing this solution or part of it shall not publish or disclose in any manner, without the Bank's prior written consent, the details of any information/architecture/data/code/solution etc. by the selected bidder under this contract or existing at any Bank location.

5.21 TECHNOLOGICAL ADVANCEMENTS

The Selected bidder shall take reasonable and suitable action, taking into account economic circumstances, at mutually agreed increase / decrease in charges, and the Service Levels, to provide the Services to the Bank at a technological level that

will enable the Bank to take advantage of technological advancement in the industry from time to time.

5.22 GUARANTEES

Selected bidder should guarantee that all the material as deemed suitable for the delivery and management of the solution for Implementation of Indian Accounting standards (Ind-AS) scope as defined under this document, are licensed and legal. All hardware and software must be supplied with their original and complete printed documentation. Original copy of licenses must be supplied to the Bank.

5.23 DISPUTES RESOLUTION MECHANISM

The Vendor and the Bank shall endeavour their best to amicably settle all disputes arising out of or In connection with the Contract in the following manner:

- The Party raising a dispute shall address to the other Party a notice requesting an amicable settlement of the dispute within seven (7) days of receipt of the notice.
- The matter will be referred for negotiation between UCO Bank (General Manager, DIT/ Authorised official) and the Authorized Official of the Vendor. The matter shall then be resolved between them and the agreed course of action documented within a further period of 30 days.

In case any dispute between the Parties is not settled by negotiation in the manner as mentioned above, the same may be resolved exclusively by arbitration and such dispute may be submitted by either party for arbitration within 20 days of the failure of negotiations.

Each Party to the dispute shall appoint one arbitrator of their own choice and the two appointed arbitrators shall appoint the third arbitrator who will act as the presiding arbitrator. Arbitration shall be held in Kolkata and conducted in English as per provisions of Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof.

The "Arbitration Notice" should accurately set out the disputes between the parties, the intention of the aggrieved party to refer such disputes to arbitration as provided herein, the name of the person it seeks to appoint as an arbitrator with a request to the other party to appoint its arbitrator within 45 days from receipt of the notice. All notices by one party to the other In connection with the arbitration shall be in writing and be made as provided in this tender document.

The Vendor shall not be entitled to suspend the Service/s or the completion of the job, pending resolution of any dispute between the Parties, rather shall continue to render the Service/s in accordance with the provisions of the SLA notwithstanding the existence of any dispute between the Parties or the subsistence of any arbitration or other proceedings.

5.24 EXIT OPTION AND CONTRACT RE-NEGOTIATION

5.14.1 The Bank reserves the right to cancel the contract in the event of happening one or more of the following Conditions:

- Failure of the Selected bidder to accept the contract / purchase order and furnish the Performance Guarantee within 15 days of receipt of purchase contract;
- Delay in offering equipments for pre-delivery Inspection;
- Delay in delivery beyond the specified period;
- Delay in completing installation / checks beyond the specified periods;
- Serious discrepancy in functionality to be provided or the performance levels agreed upon, which have an impact on the functioning of the Bank.
- Serious discrepancy in completion of project.
- Serious discrepancy in maintenance of project.
- Any other matter, causing service disruption due to fault at vendor's part.

5.14.2 In addition to the cancellation of purchase contract, Bank reserves the right to appropriate the damages through encashment of Bid Security/ Performance Bank Guarantee given by the Selected Bidder.

5.14.3 The Bank will reserve a right to re-negotiate the price and terms of the entire contract with the Selected Bidder at more favourable terms for Bank in case such terms are offered in the industry at that time for projects of similar and comparable size, scope and quality.

5.14.4 The Bank shall have the option of purchasing the equipment from third-party suppliers, in case such equipment is available at a lower price and the Selected Bidder's offer does not match such lower price. Notwithstanding the foregoing, the Selected Bidder shall continue to have the same obligations as contained in this scope document in relation to such equipment procured from third-party suppliers.

5.14.5 As aforesaid the Bank would procure the equipment from the third party only in the event that the equipment was available at more favourable terms in the industry, and secondly,

5.14.6 The Equipment procured here from third parties is functionally similar, so that the Selected Bidder can maintain such equipment.

- 5.14.7 Notwithstanding the existence of a dispute, and/or the commencement of arbitration proceedings, the Selected Bidder will be expected to continue the services. The Bank shall have the sole and absolute discretion to decide whether proper reverse transition mechanism over a period of 6 to 12 months, has been complied with. In the event of the conflict not being resolved, the conflict will be resolved through Arbitration.
- 5.14.8 The Bank and the Selected Bidder shall together prepare the Reverse Transition Plan. However, the Bank shall have the sole decision to ascertain whether such Plan has been complied with.
- 5.14.9 Reverse Transition mechanism would typically include service and tasks that are required to be performed / rendered by the Selected Bidder to the Bank or its designee to ensure smooth handover and transitioning of Bank's deliverables, maintenance and facility management.

5.25 CORRUPT AND FRAUDULENT PRACTICES

As per Central Vigilance Commission (CVC) directives, it is required that Bidders/Suppliers/Contractors observe the highest standard of ethics during the procurement and execution of such contracts in pursuance of this policy:

"Corrupt Practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of an official in the procurement process or in contract execution AND

"Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of contract to the detriment of the Bank and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Bank of the benefits of free and open competition.

The Bank reserves the right to reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

The Bank reserves the right to declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if at any time it determines that the firm has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

5.26 TERMINATION

The Bank shall be entitled to terminate the agreement with the selected bidder at any time by giving Thirty (30) days prior written notice to the selected bidder.

The Bank shall be entitled to terminate the agreement at any time by giving notice if:

- The Selected bidder breaches its obligations under the scope document or the subsequent agreement and if the breach is not cured within 30 days from the date of notice.
- The Selected bidder (i) has a winding up order made against it; or (ii) has a receiver appointed over all or substantial assets; or (iii) is or becomes unable to pay its debts as they become due; or (iv) enters into any arrangement or composition with or for the benefit of its creditors; or (v) passes a resolution for its voluntary winding up or dissolution or if it is dissolved.

5.27 EFFECT OF TERMINATION

The Selected bidder agrees that it shall not be relieved of its obligations under the reverse transition mechanism notwithstanding the termination of the assignment.

Reverse Transition mechanism would typically include service and tasks that are required to be performed / rendered by the selected bidder to the Bank or its designee to ensure smooth handover and transitioning of Bank's deliverables and maintenance. Same terms (including payment terms) which were applicable during the term of the contract/ purchase order should be applicable for reverse transition services.

The Selected bidder agrees that after completion of the Term or upon earlier termination of the assignment the selected bidder shall, if required by the Bank, continue to provide maintenance services to the Bank at no less favourable terms than those contained in this scope document. In case the bank wants to continue with the selected bidder's services after the completion of this contract/ purchase order then the selected bidder shall offer the same or better terms to the bank. Unless mutually agreed, the rates shall remain firm.

The Bank shall make such prorated payment for services rendered by the selected bidder and accepted by the Bank at the sole discretion of the Bank in the event of clause of termination, provided that the selected bidder is in compliance with its obligations till such date. However, no payment for "costs incurred, or irrevocably committed to, up to the effective date of such termination" will be applicable to Selected Bidder. There shall be no termination compensation payable to the selected bidder.

Termination shall not absolve the liability of the Bank to make payments of undisputed amounts to the selected bidder for services rendered till the effective date of termination. Termination shall be without prejudice to any other rights or

remedies a party may be entitled to hereunder or at law and shall not affect any accrued rights or liabilities or either party nor the coming into force or continuation in force of any provision Selected Bidder hereof which is expressly intended to come into force or continue in force on or after such termination.

5.28 COMPLIANCE

The products & services offered to the Bank must be in compliance with all laws, regulations & Govt. guidelines of India. It also not violate any of the provisions of the IT act in anyway or any other legal provisions relating to such products or services in India.

5.29 APPLICABLE LAW & JURISDICTION OF COURT

The Contract with the selected bidder shall be governed in accordance with the Laws of India for the time being enforced and will be subject to the exclusive jurisdiction of Courts at Kolkata (with the exclusion of all other Courts).

6. ADOPTION OF INTEGRITY PACT

UCO Bank has adopted practice of Integrity Pact (IP) as per CVC guidelines. The Integrity Pact essentially envisages an agreement between the prospective vendors / bidders / sellers, who commit themselves to Integrity Pact (IP) with the Bank, would be considered competent to participate in the bidding process. In other words, entering into this pact would be the preliminary qualification. In case of bids for the purchase of Goods, Services, and Consultancy etc. not accompanied with signed IP by the bidders along with the technical bid, the offers shall be summarily rejected. The essential ingredients of the Pact include:

- a. Promise on the part of the principal not to seek or accept any benefit, which is not legally available.
- b. Principal to treat all bidders with equity and reason
- c. Promise on the part of bidders not to offer any benefit to the employees of the Principal not available legally
- d. Bidders not to enter into any undisclosed agreement or understanding with other bidders with respect to prices, specifications, certifications, subsidiary contract etc.
- e. Bidders not to pass any information provided by the Principal as part of business relationship to others and not to commit any offence under PC/IPC Act.
- f. Foreign bidders to disclose the name and address of agents and representatives in India and Indian Bidders to disclose their foreign principals or associates.

- g. Bidders to disclose any transgressions with any other company that may impinge on the anti-corruption principle.

Integrity Pact, in respect of a particular contract, shall be operative from the date IP is signed by both the parties till the final completion of the contract. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings. IP shall cover all phases of contract i.e. from the stage of Notice Inviting Tenders (NIT)/Request for Proposals (RFP) till the conclusion of the contract i.e. final payment or the duration of warrantee/guarantee. Format of IP is attached as Annexure for strict compliance.

The following Independent External Monitors (IEMs) have been appointed by UCO Bank, who will review independently and objectively, whether and to what extent parties have complied with their obligation under the pact.

a) Shri S R Raman
1A-121, Kalpataru Gardens
Near East-West Flyover
Kandivali East, Mumbai - 400101
E-mail:- raman1952@gmail.com

b) Ms Vijayalakshmi R Iyer
Flat No. – 1402, Barberry Towers,
Nahar Amrit Shakti,
Chandivali, Powai, Mumbai – 400072
E-mail:- vriyer1955@gmail.com

All pages of Integrity Pact (IP) must be signed and stamped .Integrity Pact (IP) should be deposited with Procurement or concerned Department undertaken procurement at the address mentioned along with RFP document.

7. Non-disclosure

By virtue of RFP process and subsequent Contract, as and when it is entered into between the Bank and the successful bidder, and its implementation thereof, the bidder may have access to the confidential information and data of the Bank and its customers. The bidder will enter into a Non-Disclosure Agreement to maintain the secrecy of Bank's data as per following:-

- a. That the successful bidder will treat the confidential information as confidential and shall not disclose to any third party. The successful bidder will also agree that its employees, agents, sub-contractors shall maintain confidentiality of the confidential information.

- b. That the successful bidder will agree that it shall neither use, nor reproduce for use in any way, any confidential information of the Bank without consent of the Bank. That the successful bidder will also agree to protect the confidential information of the Bank with at least the same standard of care and procedures used by them to protect its own confidential Information of similar importance. Without limitation of the foregoing, the successful bidder shall use reasonable efforts to advise the Bank immediately in the event that the successful bidder learns or has reason to believe that any person who has had access to confidential information has violated or intends to violate the terms of the Contract to be entered into between the Bank and the successful bidder, and will reasonably cooperate in seeking injunctive relieve against any such person.
- c. That if the successful bidder hires another person to assist it in the performance of its obligations under the Contract, or assigns any portion of its rights or delegates any portion of its responsibilities or obligations under the Contract to another person, it shall cause its assignee or delegate to be bound to retain the confidentiality of the confidential information in the same manner as the Bidder is bound to maintain the confidentiality. This clause will remain valid even after the termination or expiry of this agreement.
- d. That the successful bidder will strictly maintain the secrecy of Bank's data.
- e. Bidder has to submit Non-disclosure Agreement format given as Annexure-XXII

8 Issue of Corrigendum

At any time prior to the last date of receipt of bids, Bank may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the RFP document by a Corrigendum.

Any such corrigendum shall be deemed to be incorporated into this RFP.

(Tender offer forwarding letter)

Tender Reference No.: DIT/BPR & BTD/OA/3816/2018-19 Date: 17/12/2018

To,
**The Deputy General Manager (DIT, BPR & BTD)
UCO Bank, Head Office
Department of Information Technology,
5th Floor, 3 & 4 DD Block, Sector -1,
Salt Lake, Kolkata -700064**

Dear Sir,

Sub: Your RFP for "Selection of vendor for Implementation of Indian Accounting standards (Ind-AS)" RFP Ref No. DIT/BPR & BTD/OA/3816/2018-19 Date: 31/12/2018

With reference to the above RFP, having examined and understood the instructions including all Annexures, terms and conditions forming part of the Bid, we hereby enclose our offer for Selection of vendor for Implementation of Indian Accounting standards (Ind-AS), as mentioned in the RFP document forming Technical as well as Commercial Bids being parts of the above referred Bid.

In the event of acceptance of our Technical as well as Commercial Bids by the bank we undertake to commence for providing solution for Implementation of Indian Accounting standards (Ind-AS) as per the terms & conditions of your purchase orders.

In the event of our selection by the bank for undertaking for procurement of solution for Implementation of Indian Accounting standards (Ind-AS), we will submit a Performance Guarantee for a sum equivalent to 10% of the project cost for a period of Three years effective from the month of execution of Service Level Agreement in favour of UCO Bank.

We agree to abide by the terms and conditions of this tender offer till 180 days from the date of commercial bid opening and our offer shall remain binding upon us which may be accepted by the Bank any time before expiry of 180 days.

Until a formal contract is executed, this tender offer, together with the Bank's written acceptance thereof and Bank's notification of award, shall constitute a binding contract between us.

We understand that the Bank is not bound to accept the lowest or any offer the Bank may receive

We enclose the following Demand draft(s)/Bank Guarantee:

1. DD No. Dated for Rs. 30,000/- (Rupees Thirty Thousand Only) as Cost of RFP Document &
2. BG No. Dated for Rs. 20, 00, 000/- (Rupees Twenty Lacs Only) as EMD.

Dated this day of 2019

Signature:

(In the Capacity of)

Duly authorized to sign the tender offer for and on behalf of



General Details of the Bidder**B. Profile of Bidder**

1. Name of bidder:
2. Location
Regd. Office:
Controlling Office:
3. Constitution
4. Date of incorporation & date of commencement of business:
5. Major change in Management in last three years
6. Names of Banker /s

B. Financial Position of Bidder for the last three financial years

	2015-16	2016-17	2017-18
Net Worth			
Turnover			
Net Profit (Profit After Tax)			

N.B. Enclose copies of Audited Balance Sheets along with enclosures**C. Proposed Service details in brief**

- Description of service :
- Details of similar service provided to banks in India specifying the number of Banks and branches
 - In PSU banks
 - In non-PSU banks

Details of Experience in implementation of similar orders

Sl. No.	Name of Organisation	Offered Solution	Period during which installed (last 5 Years)	
			From	To

N.B. Enclose copies of Purchase Orders as references.

Place:
Date:

AUTHORISED SIGNATORY
Name:
Designation:

PROFORMA FOR PERFORMANCE BANK GUARANTEE

(To be stamped in accordance with the stamp act)

1. In consideration of UCO BANK, a body corporate constituted under the Banking Companies (Acquisition & Transfer of Undertaking) Act, 1970, having its head office at 10 BIPLABI TRILOKYA MAHARAJ SARANI (BRABOURNE ROAD), Kolkata-700001 (hereinafter called "UCO BANK") having agreed to exempt **M/s _____ (Name of the vendor Company)**, a Company incorporated under the Companies Act, 1956 having its registered office at (Address of the vendor company) (hereinafter called "the said VENDOR") from the demand, under the terms and conditions of UCO BANK's purchase order/ Letter of Intent bearing no.dated..... issued to the Vendor and an Agreement to be made between UCO Bank and the Vendor for a period of In pursuance of Request For Proposal no.....dated....., as modified, (hereinafter called "the said Agreement"), of security deposit for the due fulfillment by the said VENDOR of the Terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs.....(Rupees.....Only). We..... [indicate the name of the bank ISSUING THE BANK GUARANTEE] (hereinafter referred to as "the Bank") at the request of [VENDOR] do hereby undertake to pay to UCO BANK an amount not exceeding Rs.....against any loss or damage caused to or suffered or would be caused to or suffered by UCO BANK by reason of any breach by the said VENDOR of any of the terms or conditions contained in the said Agreement.
2. We [indicate the name of the bank ISSUING THE BANK GUARANTEE] do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from UCO BANK stating that the amount claimed is due by way of loss or damage caused to or breach by the said VENDOR of any of the terms or conditions contained in the said Agreement or by reason of the VENDOR'S failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....
3. We undertake to pay to UCO BANK any money so demanded notwithstanding any dispute or disputes raised by the VENDOR in any suit or proceeding pending

before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment as made by us under this bond shall be a valid discharge of our liability for payment there under and the VENDOR for payment there under and the VENDOR shall have no claim against us for making such payment.

4. We,[indicate the name of the Bank ISSUING THE GUARANTEE] further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of BANK under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till UCO BANK certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said VENDOR and accordingly discharged this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before(Expiry of claim period), we shall be discharged from all liabilities under this guarantee thereafter.
5. We [indicate the name of Bank ISSUING THE GUARANTEE] further agree with UCO BANK that UCO BANK shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said VENDOR from time or to postpone for any time, or from time to time any of the powers exercisable by UCO BANK against the said VENDOR and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any variation, or extension being granted to the said VENDOR or for any forbearance, act or omission on the part of UCO BANK of any indulgence by UCO BANK to the said VENDOR or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the VENDOR.
7. We, [indicate the name of Bank ISSUING THE GUARANTEE] lastly undertake not to revoke this guarantee during its currency except with the previous consent of UCO BANK in writing.

Notwithstanding anything contained herein:

- a. Our liability under this Bank Guarantee shall not exceed Rs..... (Rupees.....) Only.

- b. This Bank Guarantee shall be valid uptoand
c. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before(date of expiry of Guarantee including claim period).

8. Dated the day of for [indicate the name of Bank]

Yours' faithfully,

For and on behalf of

_____ Bank.

Authorised Official.

NOTE:

1. Selected vendor should ensure that the seal and CODE No. of the signatory is put by the bankers, before submission of the bank guarantee.
2. Bidder guarantee issued by banks located in India shall be on a Non-Judicial Stamp Paper of requisite value as applicable to the place of execution.

यूको बैंक  UCO BANK

Compliance Chart

Compliance chart for submitting RFP for Selection of vendor for Implementation of Indian Accounting standards (Ind-AS).

Sl. No.	Particulars	Compliance Status (Yes / No)	Page No. Of the bid document submitted
1.	Are Technical & Commercial bid submitted under separate sealed envelopes?		
2	Is the Technical bid made in conformity with technical bid template as per Annexure XII?		
3.	Is the Commercial bid made in conformity with Commercial template as Annexure XVII?		
4.	Are the Technical & Commercial Bids organized properly?		
5.	Are all the pages numbered properly and signed and stamped.		
6	Is EMD submitted?		
7	Duly signed Annexure is enclosed		
8.	Is the softcopies of the response of Technical, Functional and Commercial RFP submitted in separate?		
9.	Are document in support of all eligibility criteria submitted?		
10.	Are your solution complied with all Scope of work.		
11.	Is the Manufacturer Authorisation Form submitted?		
12.	Undertaking to provide Post Warranty Maintenance Support.		
13.	Authorization Letter(s) from OEM (in case of Bidder is not OEM)		
14.	Audited Balance Sheet and Profit & Loss Account documents for the last 3 years		
15.	Power of Attorney/Authority letter issued by the competent authority for signing the Bid document on behalf of the company.		

For.....

(Signature and seal of authorized person)

Place:

Date:



**The Deputy General Manager (DIT, BPR & BTD)
UCO Bank, Head Office
Department of Information Technology,
5th Floor, 3 & 4 DD Block, Sector -1,
Salt Lake, Kolkata -700064**

Sir,

Reg.: Your RFP for "Selection of vendor for Implementation of Indian Accounting standards (Ind-AS)" RFP Ref No. DIT/BPR & BTD/OA/3816/2018-19 Date: 31/12/2018

We submit our Bid Document herewith.

We understand that Bank is not bound to accept the lowest or any bid received and Bank may reject all or any bid.

If our bid is accepted, we are responsible for the due performance as per the scope of work and terms & conditions as per mentioned in RFP.



Yours faithfully

For.....

(Signature and seal of authorized person)

Place:

Date:

Format of Bank Guarantee (EMD)

To
UCO BANK,
Department of Information Technology,
5th Floor, 3 & 4 DD Block, Sector-I,
Salt Lake, Kolkata – 700064

Dear Sirs,

In response to your invitation to respond to your RFP for Selection of vendor for Implementation of Indian Accounting standards (Ind-AS), M/s _____ having their registered office at _____ (hereinafter called the 'Bidder') wish to respond to the said Request for Proposal (RFP) and submit the proposal for procurement of solution for Implementation of Indian Accounting standards (Ind-AS) and to provide related services as listed in the RFP document.

Whereas the 'Bidder' has submitted the proposal in response to RFP, we, the _____ Bank having our head office _____ hereby irrevocably guarantee an amount of Rs 20,00,000 (Rupees twenty Lacs only) as bid security as required to be submitted by the 'Bidder' as a condition for participation in the said process of RFP.

The Bid security for which this guarantee is given is liable to be enforced/invoked:

1. If the Bidder withdraws his proposal during the period of the proposal validity; or
2. If the Bidder, having been notified of the acceptance of its proposal by the Bank during the period of the validity of the proposal fails or refuses to enter into the contract in accordance with the Terms and Conditions of the RFP or the terms and conditions mutually agreed subsequently.

We undertake to pay immediately on demand to UCO Bank the said amount of Rupees Fifty Lacs without any reservation, protest, demur, or recourse. The said guarantee is liable to be invoked/ enforced on the happening of the contingencies as mentioned above and also in the RFP document and we shall pay the amount on any Demand made by UCO Bank which shall be conclusive and binding on us irrespective of any dispute or difference raised by the Bidder.

Notwithstanding anything contained herein:

1. Our liability under this Bank guarantee shall not exceed Rs 20, 00,000/- (Rupees twenty Lacs only).
2. This Bank Guarantee will be valid upto ____; and
3. We are liable to pay the guarantee amount or any part thereof under this Bank guarantee only upon service of a written claim or demand by you on or before_____.

In witness whereof the Bank, through the authorized officer has sets its hand and stamp on this ____day of ____at ____.

Yours faithfully,

For and on behalf of

_____ Bank.

Authorised Official.

(NB : This guarantee will require stamp duty as applicable and shall be signed by the official whose signature and authority shall be verified. The signatory shall affix his signature, name and designation).



PROFORMA FOR DEED OF INDEMNITY

(To be stamped as per the Stamp Law of the Respective State)

This Deed of Indemnity executed at On the _____ day of _____ by M/s _____(hereinafter referred to as “the Obligor” which expression shall unless it be repugnant to the context, subject or meaning thereof, shall be deemed to mean and include successors and permitted assigns);

IN FAVOUR OF

UCO Bank a body corporate constituted under the Banking Companies (Acquisition and transfer of undertakings) Act, 1970, having its Head Office at No. 10, BTM Sarani, Kolkata-700001(hereinafter referred to as “UCO Bank”, which expression unless expressly excluded or repugnant to the context shall also include its successor, assigns, attorneys, agents, representatives, authorized officer and all and any such officer having the power and authority to represent the Bank)

WHEREAS

The Obligor has

- A. offered to provide solution for Implementation of Indian Accounting standards (Ind-AS)with the specifications as prescribed in the Agreement / Contract dated _____ during the period of five year from the date of acceptance of the purchase orders issued by the Bank from time to time. The Supply of solution by the obligor is herein after referred to as “**Supply**”.
- B. Agreed to install and provide comprehensive maintenance for the Equipments, material used and workmanship by them in terms of the Agreement / Contract dated _____ and respective Purchase Orders issued from time to time during the warranty period of 24 months and during the post warranty period if required at the discretion of UCO BANK. (The installation and maintenance are herein after collectively referred to as “**Service/s**”).
- C. Represented and warranted that they have all permissions, consents, approvals from all authorities, both regulatory and non-regulatory, for providing solution for Implementation of Indian Accounting standards (Ind-AS)and provide other Service/s to UCO BANK.
- D. Represented and warranted that the aforesaid supply/services offered to UCO BANK do not violate any provisions of the applicable laws, regulations or guidelines including legal and environmental. In case there is any

violation of any law, rules or regulation, which is capable of being remedied, the same will be got remedied immediately during the installation, maintenance and contract period to the satisfaction of UCO BANK.

E. Represented and warranted that they are authorized and legally eligible and otherwise entitled and competent to enter into such Contract/ Agreement with UCO BANK.

2. One of the conditions of the aforesaid Agreement is that the Obligor is required to furnish an indemnity in favor of UCO BANK indemnifying the latter against any claims, losses, costs, actions, suits, damages and / or otherwise arising due to or on account of Obligor's violations of any trademarks, patents, copyrights and licenses, the applicable laws, regulations, guidelines during the Supply / Services to UCO BANK as also for breach committed by the Obligor on account of misconduct, omission and negligence by the Obligor.
3. In pursuance thereof, the Obligor has agreed to furnish an indemnity in the form and manner and to the satisfaction of UCO BANK as hereinafter appearing;

NOW THIS DEED WITNESSETH AS UNDER:-

In consideration of UCO BANK having agreed to award the aforesaid contract to the Obligor, more particularly described and stated in the aforesaid Agreement/Contract, the Obligor do hereby agree and undertake that:-

- (1) the Obligor shall, at all times hereinafter, save and keep harmless and indemnified UCO BANK, including its respective directors, officers, and employees and keep them indemnified from and against any claim, demand, losses, liabilities or expenses of any nature and kind whatsoever and by whomsoever made in respect of the said contract and any damage caused from and against all suits and other actions that may be instituted taken or preferred against UCO BANK by whomsoever and all losses, damages, costs, charges and expenses that UCO BANK may incur by reason of any claim made by any claimant for any reason whatsoever or by anybody claiming under them or otherwise for any losses, damages or claims arising out of all kinds of accidents, destruction, deliberate or otherwise, direct or indirect, from those arising out of violation of applicable laws, regulations, guidelines and also from the environmental damages, if any, which may occur during the contract period.
- (2) The Obligor further agrees and undertakes that the Obligor shall, during the contract period, ensure that all the permissions, authorizations, consents are obtained from the local and/or municipal and/or governmental authorities, as

may be required under the applicable laws, regulations, guidelines, orders framed or issued by any appropriate authorities.

- (3) The Obligor further agrees to provide complete documentation of all Equipments/accessories/and other software, they are having. The Obligor shall also indemnify and keep indemnified UCO BANK against any levies/penalties/claims/demands, litigations, suits, actions, judgments, in this regard.
- (4) If any additional approval, consent or permission is required by the Obligor to execute and perform the contract during the currency of the contract, they shall procure the same and/or comply with the conditions stipulated by the concerned authorities without any delay.
- (5) The obligations of the Obligor herein are irrevocable, absolute and unconditional, in each case irrespective of the value, genuineness, validity, regularity or enforceability of the aforesaid Agreement/Contract or the insolvency, bankruptcy, reorganization, dissolution, liquidation or change in ownership of UCO BANK or Obligor or any other circumstance whatsoever which might otherwise constitute a discharge or defence of an indemnifier.
- (6) The obligations of the Obligor under this deed shall not be affected by any act, omission, matter or thing which, would reduce, release or prejudice the Obligor from any of the indemnified obligations under this indemnity or prejudice or diminish the indemnified obligations in whole or in part, including in law, equity or contract (whether or not known to it, or to UCO BANK).
- (7) This indemnity shall survive the aforesaid Agreement.
- (8) Any notice, request or other communication to be given or made under this indemnity shall be in writing addressed to either party at the address stated in the aforesaid Agreement and or as stated above.
- (9) This indemnity shall be governed by, and construed in accordance with, the laws of India. The Obligor irrevocably agrees that any legal action, suit or proceedings arising out of or relating to this indemnity may be brought in the Courts/Tribunals at Kolkata. Final judgment against the Obligor in any such action, suit or proceeding shall be conclusive and may be enforced in any other jurisdiction, by suit on the judgment, a certified copy of which shall be conclusive evidence of the judgment, or in any other manner provided by law. By the execution of this indemnity, the Obligor irrevocably submits to the exclusive jurisdiction of such Court/Tribunal in any such action, suit or proceeding.
- (10) UCO BANK may assign or transfer all or any part of its interest herein to any other person. Obligor shall not assign or transfer any of its rights or obligations under this indemnity, except with the prior written consent of UCO BANK

IN WITNESS WHEREOF the Obligor has signed these presents on the day, month and year first above written.

Signed and Delivered on behalf of (_____)

By the hand of (_____) the authorized official of the Obligor)

यूको बैंक  UCO BANK

Performa of letter to be given by all the Bidder participating in the UCO Bank RFP Selection of vendor for Implementation of Indian Accounting standards (Ind-AS) on their official letterheads.

To
The Deputy General Manager (DIT, BPR & BTD)
UCO Bank, Head Office
Department of Information Technology,
5th Floor, 3 & 4 DD Block, Sector -1,
Salt Lake, Kolkata -700064

Sir,

Sub: Selection of vendor for Implementation of Indian Accounting standards (Ind-AS).

Further to our proposal dated, in response to the Request for Proposal (Bank's tender No. Here in after referred to as "RFP") issued by UCO Bank, we hereby covenant, warrant and confirm as follows:



The soft-copies of the proposal submitted by us in response to the RFP and the related addendums and other documents including the changes made to the original tender documents issued by the Bank, conform to and are identical with the hard-copies of aforesaid proposal required to be submitted by us, in all respects.

The bid submitted herein shall be valid for a period of 180 days from the date of RFP response submission process closes.

Yours faithfully,

Authorised Signatory
Designation
Bidder's corporate name

Performa of letter to be given by all the Bidder participating in the UCO Bank RFP for Selection of vendor for Implementation of Indian Accounting standards (Ind-AS) on their official letter-head.

To,

**The Deputy General Manager (DIT, BPR & BTD)
UCO Bank, Head Office
Department of Information Technology,
5th Floor, 3 & 4 DD Block, Sector -1,
Salt Lake, Kolkata -700064**

Sir,

Sub: Selection of vendor for Implementation of Indian Accounting standards (Ind-AS).

Further to our proposal dated, in response to the Request for Proposal (Bank's tender No. Hereinafter referred to as "**RFP**") issued by UCO Bank on behalf we hereby covenant, warrant and confirm as follows:

We hereby agree to comply with all the terms and conditions / stipulations as contained in the RFP and the related addendums and other documents including the changes made to the original tender documents if any, issued by the Bank. The Bank is not bound by any other extraneous matters or deviations, even if mentioned by us elsewhere either in our proposal or any subsequent deviations sought by us, whether orally or in writing, and the Bank's decision not to accept any such extraneous conditions and deviations will be final and binding on us.

Yours faithfully,

Authorised Signatory
Designation
Bidder's corporate name

(Letter to be submitted by the Manufacturer on firm's official letter head)

Manufacturer Authorisation Form (MAF)

To,

**Deputy General Manager (DIT, BPR & BTD)
UCO Bank, Head Office,
Department of Information Technology
5th Floor, 3&4, DD Block, Sector-I
Salt Lake, Kolkata -700064**

Dear Sir,

Ref: RFP for Selection of vendor for Implementation of Indian Accounting standards (Ind-AS)"RFP Ref No. DIT/BPR & BTD/OA/3816/2018-19 Date: 31/12/2018

We (Name of the Manufacturer) who are established and reputable manufacturers of having factories at,, and do hereby authorize M/s (Name and address of Bidder) who is the bidder submitting its bid pursuant to the Request for Proposal issued by UCO Bank on behalf, to submit a Bid and negotiate and conclude a contract with you for supply of equipments manufactured by us against the Request for Proposal received from your bank by the Bidder and we have duly authorised the Bidder for this purpose.

We hereby extend our guarantee/ warranty and AMC as per terms and conditions of the RFP Noand the contract for the equipment and services offered for supply against this RFP No..... By the above-mentioned Bidder, and hereby undertake to perform the obligations as set out in the RFP No..... In respect of such equipments and services. We undertake to provide back-to-back support for spare and skill to the bidder for subsequent transmission of the same to the Bank. We also undertake to provide support services during warranty as well as AMC period if the above bidder authorized by us fails to perform in terms of the RFP.

Yours Faithfully

Authorised Signatory

(Name:

Phone No. Fax E_mail)

(This letter should be on the letterhead of the Manufacturer duly signed by an authorized signatory)

Functional Specification Compliance Sheet

SL NO	Particulars	IT Enhancements	Requirement for Successful Implementation of IND-AS	Offered Specification	Compliance Yes/No
1	Tagging	Tagging of individual financial asset into AC, FVOCI & FVTPL along with existing categorization such as government securities, debenture, mutual funds etc.	Valuation and amortisation of financial assets as per the classification.		
2			Classification and Measurement of Financial Liabilities as per Ind AS.		
3			Reclassification of financial assets and de-recognition of financial liabilities.		
4			Classification of investments in the categories as defined in Ind AS. System should enable classifications of financial assets into three categories i.e. Amortized cost, Fair Value through Other Comprehensive Income (FVOCI) and Fair value through Profit and Loss account (FVTPL).		
5			Mandatory fields should be added to Security master for such classification, so that securities can be tagged appropriately at the time of purchase.		
6			At any point of time system should be able to generate the security position report as per new classification.		
7			System should have all possible conclusions for Business Model embedded in system. Also there should be SPPI feature as Pass/ Fail shall be embedded in system for each security. Logic shall be built in system for classification based on the results of business model and SPPI test for each security/ instrument		
8			System should have the flexibility to manually select the SPPI and Business model.		
9			New Chart of Accounts shall be mapped in system which will be as per the requirements of Ind AS		
10			There should be adequate safeguards in the system to notify about restrictions on sale/transfer of securities held under amortised cost category		
11			Treasury module in the solution to be developed in a manner, which segregates the investment on the parameters of market (primary / secondary).		
12	Computation	System to compute the amortized cost as per the	Provision to capture the actual purchase price of the securities.		
13			Solution to map chart of accounts of Interest Accrued with securities where the		

		effective interest rate method based on inputs of premium/discount, transaction costs and expected maturity date.	classification is amortised cost.		
14			Solution should have flexibility to add financial asset wise upfront fees received / charges paid for calculation of EIR individually / collectively after considering the premium / discount / income /expenses etc. There should be a scope for defining the significant / insignificant income / charges associate with financial assets. A report of such amortized / un amortized income / charges should also be generated.		
15			System should facilitate automatic fair value calculation of securities.		
16			Solution should enable calculation of fair value using level 1 input, level 2 input and level 3 input and generate report showing the fair value of the financial assets. Solution should have flexibility to add such information at inception level or thereafter.		
17			System should calculate the New Price to compute the amortized cost of the securities which will be reported in the balance sheet. Amortized cost will be product of "New Price" and quantity of the security. Quantity of security should be computed using "Closing Face value" of the security as per FIFO method. "New Price" will be calculated using: 1.Yield 2.Current Date 3.Settlement Date 4.Settlement Price per unit 5.Face value per security 6.Interest Rate 7.Redemption Value 8.Interest frequency 9.Maturity value 10.Last interest received date 11.Interest Basis (Day count convention) 12.Accrued Interest		
18			Solution should able to generate the portfolio transfer / sale / purchase/redemption report for the behavioural study from the inception / first time adoption.		
19		Compute Values WAM/FIFO Basis.	System should have tagging of "buy"/ "sell/redemption" transactions of a particular security		
20			System should calculate the Purchase price of security.		
21			System should run a schedule to calculate cumulative face value of the security taking into consideration all the transactions prior to reporting date.		

22			All "sell" transactions will be reduced from Face value using First in first out method (FIFO) Accordingly, Closing Face value of security to be computed.			
23		Compute MTM gain/loss for FVTPL and FVOCI instruments and account for it in P/L & OCI respectively.	Calculating the MTM gain or loss on the securities. Provision to capture MTM portfolio wise (as classified under IND AS) and calculate the resulting unrealised gain / losses.			
24			Solution should compute MTM gain or loss individually as well as collectively for financial assets. Trial balance should reflect separate head for MTM gain or loss as per Ind AS requirement.			
25		Compute gain/loss for instruments that are traded but not settled till reporting date(for settlement date accounting only)	Solution should capture data on real time basis or on daily basis from the above mentioned applications / systems and also able to generate the financial asset position report as and when required as per the Ind AS requirements.			
26		Amount of Gains/losses accumulated in OCI to be reclassified to P & L on Sale of FVOCI debt securities.	Cumulative difference between "amortized cost" and "Purchase Cost" is the unamortized Discount, to be debited to relevant GL			
27			Solution should generate statement showing comparative reclassification of the financial assets as well as impact summary.			
28		Valuation based on DCF/ FIMMDA/other valuations techniques as used.				
29		Compute CVA/DVA on derivative instruments.	Solution should recognize derivatives at fair value initially and subsequently as per Ind AS 109.			
30			Solution should generate report on derivative accounting as per Ind AS. System should account for deal wise Positive and Negative MTM separately in Derivative Financial Asset and Derivative Financial Liability respectively.			
31			System should provide MTM sensitivity analysis to comply with disclosure requirements of Ind AS 107			
32			Solution should generate report of accounting entries for hedge accounting.			
33			Solution should account for MTM on IRS designated as hedging and record positive / negative MTM separately deal wise and separate GL required for recording positive and negative MTM on each derivative product.			
34			Solution should generate detailed report individually as well as collectively for CVA/ DVA calculation wherever			

			applicable		
35			Solution should compute CVA / DVA based on positive MTM and negative MTM respectively and separate GL required for adjustment related to CVA and DVA.		
36		Mark to Market values to be computed for reciprocal deposits as they are in nature of Cross currency swaps.			
37			In case of investment in debt securities classified at FVOCI and amortised cost, transaction cost incurred at the time of investment on such securities needs to be amortised over the life as per EIR. System should facilitate linking of such charges to each investment to which it pertains.		
38			Solution should capture deal wise discount / premium on the securities acquired and accordingly such discount / premium should be amortised over the life of the security in accordance with Effective interest rate.		
39	Capture	Premium / Discounts paid at inception or payable at maturity for AC and FVOCI tagged instruments.	Solution should capture the data of financial assets having redemption premium and the same should be accrued as per EIR or flexible enough to accept the manual feeding of such information financial asset wise.		
40			System should capture following information for the calculation of premium/ discount amortization at EIR over the life of instrument : 1.Settlement date 2.Maturity Date 3.Redemption Date 4.Face Value 5.Face Value per unit 6.Actual Interest rate 7.Redemption Value per unit 8.Interest frequency 9.Settlement price 10.Call date 11.Put Date 12.Last interest received date 13.Interest Basis (Day count convention) 14.Accrued Interest		
41			Reporting	Fair value for all instruments including derivatives and all other Financial Instruments as per IND-AS requirements.	
42	ECL Computation	Solution should be capable to compute ECL on investments.			
43	Solution should be able to generate financial asset wise cash flow (cash flow from the date of inception / date of purchase till the date of redemption/sale on basis of actual repayment as well as on the basis of repayment schedule).				
44	Solution should be able to capture the master data of all the financial assets so as to facilitate inception level classification as per Ind AS. Master data so captured can be suitably tagged to classify the financial asset as per Ind AS requirement.				

45		Solution should generate report showing financial asset wise Call option, Put option, conversion option etc. solution should have flexibility to add such information at inception level		
46		Solution should generate the report showing assumptions undertaken for Ind AS accounting.		
47		The in-built cash flow engine should also be capable of taking care of market value of banking book assets and liabilities.		
48		There should be provision within the solution's data model to source and store fair values at account level for investment / treasury book and use it for reporting if required		
49	Collateral Details for fund based	1) Collateral coverage value against each customer advance needs to be generated in the IT system for calculation of Loss given Default numbers for provisioning under ECL model.	The system should be capable of computing LGD using market based LGD, implied LGD and work-out method as per the nature, applicability and data availability of credit risk exposures. Further, the system should be able to drill down the LGD estimation into industry wise, vertical wise, product wise, workout method wise, year wise/quarter wise/Other frequencies/, collateral-wise and offer additional drilldown options and reports.	
50	Probability of Default Details for fund and non-fund based facility	To compute PD, LGD & CCF parameter in case it is not available from other system.		
51		To convert TTC PD to PIT PD and vice versa		
52		To compute Life time PD numbers based on 1 year, 2 year ...PD numbers		
53		Support transparent, rule driven mechanism to identify significant increase in credit risk (SICR, significant deterioration assessment).		
54		The solution should be able to engage in modelling the term structures of the PD, LGD and EAD (wherever applicable). This includes the ability to engage in multi-year (e.g. 1-year, 3- years, 5-years, etc.) default (PD), loss (LGD) and exposure (EAD) estimates to fulfil the 12-month and lifetime ECL measurement requirements.		
55		The solution should allow users to build, validate and deploy PD models based on linear regression, logistic regression and decision tree based methodologies		
56		The solution should allow users to use statistical methodologies to estimate PD in case of low default portfolios like large corporate.		
57		The solution should provide the ability to estimates Probability of Default (PD) / long run PDs using internal rating grades and default history across all exposure types as well as Internal loss history, External rating based, Statistical based approaches as per Basel III / RBI Guidelines for IRB approaches (e.g. - as per all RBI / Basel III Guidelines).		
58		The solution should be capable of computing Through-the-cycle PD and Point-in-time PD. The system should be capable to convert a PIT PD to TTC PD and vice versa. Solution should be capable of customization of		

		determination of PD bases on different rating grades, Product or any other criteria defined by user.		
59		1) Appropriate logic needs to be built in the IT system so that staging of advances customer wise is done under IND AS Financials. Days past due (DPD) is used for staging of advances.	Solution should provide pre-defined (out of box) rules for IND AS 109 Stage 1, Stage 2 & Stage 3. The rules listed below for stage determination should be supported out of the box: Rating Based LTV Based Days Past Due Based New Account Origination Based Industry Based Country Based Approach Based Credit Status Based (defaulted/impaired)	
60	Staging of Advances	2) For corporate customers Stage 1 will comprise of 0-59 days past due, Stage 2 will comprise of 60-89 days past due & Stage 3 will comprise of 90 days & above.	Solution to segregate retail and corporate asset class as per RBI definition taking into aggregate fund based and non-fund based exposure for domestic and overseas exposures and further segregate retail and corporate advances into Stage I, stage II and stage III advances as per guidelines or as per user defined.	
61		3) For retail customers Stage 1 comprise of 0-29 days, Stage 2 will comprise of 30-89 days past due & stage 3 will comprise of 90 days & above.	To classify an account in stage I to other stages as per regulatory guidelines i.e. standard restructure assets.	
62		Solution should allow formation of cohorts for collective assessment based on instrument dimensions / characteristics chosen by the bank.		
63		Solution should able to define bank specific staging rules with complex nested rules and exception rules, for stages 1,2, and 3 at legal entity / LOB/ subsidiary & group levels.		
64		Solution should allow for modification of stage determination rules by authorized users along with approval functionality (maker-checker).		
65		Solution should incorporate input data field changes (if any) corresponding to bank specific criteria for stage determination with reference to different portfolios / subsidiary or local regulation related requirements.		
66		Solution should allow different staging rules for different legal entity, regions to meet both local & group reporting / disclosure requirements.		
67		Ability to flag exposures in the system where the stage assignment has not been executed due to missing input data & flexibility to apply default values for missing input data as well as for final stage determination.		

68	Solution should provide staging movement summary/stage transition reports from one period to next.			
69	The solution should have the ability to define different business rules regarding the designation of a financial asset as being Stage 1, 2 or 3, including definitions of default. The designation of business rules should be flexible, able to define specific rules at the account / transaction level, as well as on an aggregated level, and incorporate any internal accounting standards. This includes the ability to apply different rules within the same portfolio, segment, product, account, etc. The business Rules engine should be Graphical User Interface (GUI) based and configurable by Business User.			
70	The system should allow the user to define the expected values for each term and define whether the term is an input, intermediate or output variable.			
71	System should allow user to create one or multiple rule sets. Each rule set would be a combination of rules (Eg: if DPD >60 days then Stage 2, Rating below BB- then Stage 2) executed in a preference order			
72	User should be able to drag drop and change the order in which the rules are executed within a rule set.			
73	The solution should have the ability to assess the reasonableness of applying the 30/90 days rebuttable presumption. For example, the solution should have the ability to perform certain analysis to determine the viability of rebutting the presumption.			
74	The solution should have the ability to define different cut-off thresholds in which to determine a significant increase in credit risk.			
75	4) Restructured advances as per RBI circular has to be tagged as stage 3.	Solution should be able to capture the data from system		
76	Credit Rating for advances (Fund and Non-Fund)	The solution should be able to integrate with any existing development / future development environment, the credit risk models currently employed by the Bank, including internally developed models and or external vendor developed models. This includes Internal Ratings Based ("IRB") models, internal scorecards / rating models, application and behavioural models.		
77	Loan Tenure (Fund and Non Fund)	Solution should be able to capture the data with respect to remaining loan tenure		
78	Drawn/ Undrawn Amounts of Advances (Fund and Non-Fund)	Facilitate to arrive at account level undrawn balances for fund and non-fund based facilities and respective ECL		
79	Fair Value on Advances categorized at amortized cost	As per IND AS 107 Disclosures on Financial Instruments, Fair value of financial instruments categorized at Amortized Cost is to be given as Disclosure. Solution should be capable for calculation for fair value of advances categorised at Amortised Cost.		
80	Subsidy Reserve Fund	Solution should be capable to provide break up of Subsidy Reserve Fund Scheme wise & customer wise so that the amount of subsidy can be adjusted for the purpose of computation of ECL provision through system.		

81	ECGC/CGTSI Customer Wise Details	Solution should be capable to provide break up of account wise ECGC/CGTSI claims received so that the amount of ECGC/CGTSI claims received can be adjusted for the purpose of computation of ECL provision through system.			
82	Measurement of Borrowings	Borrowings are to be measured at amortized cost using Effective Interest Rate method. So, the Loan/Bond issue expenses should be tagged with respective bond in the accounting package so that interest accrual is done based on EIR rate and not the coupon Rate.	System should be updated to have classification of borrowing as per Ind AS 109.		
83			For investment accounting Interest to be accounted under the Ind AS books as per the "Yield / EIR" calculated instead of the interest rate of the bond.		
84			System should compute amortised cost of the borrowing as per Effective Interest Rate (EIR) method after taking into account transaction cost and other charges incurred on day 1.		
85			Solution should be able to link charges at the time of borrowings to each borrowing and recognise the same as per EIR instead of upfront charging to P & L.		
86	ECL Tool	The solutions should cater to the requirement of manual input of recovery, expected or contractual cash flows or apply loss rates to a set of cash flows as required.			
87	Calculation of provisioning as per "Expected Credit Loss" (ECL) Model for recognition of impairment on financial assets.				
88	Solution should provide the flexibility to define or customize bank specific calculation methodologies for the computation of ECL.				
89	Ability to add / edit the ECL computation rules through front end screen by business users with authorization functionality.				
90	Flexibility of dynamic updates on the ECL computation & reporting process. (E.g. reusing the business rule for different jurisdiction ECL computation, assigning the existing methodology for new products from the bank etc.).				
91	To interact with different systems to get the following data required for ECL computation a)Extract the rating data from System b)Rating wise Probability of Default c)Facility wise Loss given Default d)Facility wise CCF e)Rating wise tenure specific cumulative probability of default f)Account wise standard restructuring data g)Account wise SMA data h)Account wise technical write off				
92	To construct/generate account level residual cash flows based on actual repayments in loan accounts and arrive at IND AS balances (future remaining cash flows discounted at EIR) to be used for ECL computation.				

93	To be able to build future cash flows based on repayment, tenure, interest rate, interest/instalment repayment frequency, original loan amount in cases where the same is not made available directly from any system.		
94	To compute PD, LGD and CCF parameter in case it is not available from other system.		
95	To convert TTC PD to PIT PD and vice versa.		
96	To compute interest in NPA accounts and should be able to create account level GL entry.		
97	To accept MOC data and reconcile the ECL computation accordingly.		
98	To compute Life time PD numbers based on 1 year, 2 year ...PD numbers		
99	Support transparent, rule driven mechanism to identify significant increase in credit risk (SICR, significant deterioration assessment).		
100	Systemic generation of IRR (Internal Rate of Return) based on projected cash flow of loan accounts.		
101	Solution should incorporate input data field changes (if any) corresponding to bank specific criteria for stage determination with reference to different portfolios / subsidiary or local regulation related requirements.		
102	The solution should have the ability to define different cut-off thresholds in which to determine a significant increase in credit risk.		
103	The system by default should compute 12 Month and Lifetime ECL for all accounts. The system should allow dynamic stage allocation and ECL computation without resubmitting of inputs to ECL engine.		
104	To compute credit risk RWA as per RBI Basel guidelines. Solution should have below capabilities: a)Lineage - Calculation & data (input, processing, result) b)Audit trail functionality c)Online reference information for computation logic used for respective ECL computation steps (read only)		
105	Should provide the ability to execute the all statistical models in single environment. This includes models for IIND AS 109, Basel etc.		
106	System should provide the ability to update model parameters, models or inputs required based on change in banks policy decision or whenever required.		
107	Solution should able to incorporate PIT related models / methodology based on bank specific logics & user defined mapping tables.		
108	Ability to do model monitoring, manage model repository & support the model life cycle management (e.g. model owners, changes made, approvers, creation date / expiry date etc.).		
109	Solution should support exception handling mechanism with reference to missing data, business logics & generate the reports as a part of ECL computation.		
110	The solution should have the capacity to capture the different ECL models being developed, tested and deployed, specifically to store the model codes, assumptions and business rules employed, thereby providing an inventory of all models in use for IND AS109 including the ability to illustrate or define the relationship / dependency of the different models. The models along with conditionality should be configurable in the application.		

111	The solution should be able to accommodate the development process, including capability to define the modelling steps, execute the modelling steps and test conduct goodness-of-fit testing.		
112	The solution should be able to engage in modelling the term structures of the PD, LGD and EAD (wherever applicable). This includes the ability to engage in multi-year (e.g. 1-year, 3- years, 5-years, etc.) default (PD), loss (LGD) and exposure (EAD) estimates to fulfil the 12-month and lifetime ECL measurement requirements.		
113	Systems development environment should simulate different assumptions and business rules. The simulation environment should work at a model group, portfolio, product, segment and account levels.		
114	The solution should allow combination of models, scenarios, cash flows, portfolio, mitigates in a modular fashion as such calculation can be done by combing models of current period with portfolio of previous period. This would be required to do attribution analysis for ECL changes.		
115	The model implementation codes should be generated by system based on choices made by user.		
116	The solution should contain a defined model to support the development of ECL / FIRB /IRB models. Additionally, the solution should be flexible in allowing changes to any pre-defined data model, or allow the definition of a new data model. The solution should be capable of automatically adjusting pre-existing models to the new data model.		
117	The system should be able to store all the data for at least seven years extendable up to 20 Years.		
118	The solution should allow users to build, validate and deploy PD models based on linear regression, logistic regression and decision tree based methodologies		
119	The solution should allow users to use statistical methodologies to estimate PD in case of low default portfolios like large corporate.		
120	The solution should provide the ability to estimates Probability of Default (PD) / long run PDs using internal rating grades and default history across all exposure types as well as Internal loss history, External rating based, Statistical based approaches as per Basel III / RBI Guidelines for IRB approaches (e.g. - as per all RBI / Basel III Guidelines).		
121	The solution should be capable of computing Through-the-cycle PD and Point-in-time PD. The system should be capable to convert a PIT PD to TTC PD and vice versa.		
122	The system should be capable of computing LGD using market based LGD, implied LGD and work-out method as per the nature, applicability and data availability of credit risk exposures. Further, the system should be able to drill down the LGD estimation into industry wise, vertical wise, product wise, workout method wise, year wise/quarter wise/Other frequencies/, collateral-wise and offer additional drilldown options and reports.		
123	The solution should support both the Foundation as well as Advanced approaches for collection of LGD data components and estimation of facility wise Loss Given Default (LGD) – both economic LGD and accounting LGD- across all exposure types (On and Off Balance sheet exposures), both for defaulted/ restructured accounts.		
124	System should allow to choose a discount rate for discounting of recovery cash-flows and recovery costs.		
125	The solution should allow users to build LGD prediction models using suitable statistical models.		
126	The solution should distinguish between senior and subordinated facilities allocating required LGD to unsecured portion of the facility as per IRB guidelines.		

127	The solution should provide for effective LGD where the Bank is having other financial/AIRB collaterals and pool of collaterals.		
128	The system should be able to compute Downturn default weighted LGD as per RBI/ Basel guidelines.		
129	For estimation of EAD & CCF, system should enable undrawn analysis, UGD (Usage Given Default) analysis.		
130	The solution should allow users to build, validate and deploy CCF prediction models based on linear regression, logistic regression and clustering.		
131	The system should have capabilities to capture outstanding and limit information for all revolving and off- balance sheet exposures.		
132	The system should have capabilities to compute realized CCF (Credit Conversion Factor) for defaulted exposures.		
133	The solution should allow for forecasting balance amount using cash flow projection (interest and capital) for EMI, non EMI, Amortizing and regular type of loan products.		
134	The system should support various methodologies for imputing missing values in data.		
135	The system should support sampling techniques like simple, stratified, random etc.		
136	Facilitate to create and maintain retail pools (PD, LGD and CCF) as per the definitions of pools.		
137	The system should enable development of credit scorecards and credit rating models using Linear Regression, Logistic Regression and Clustering.		
138	The system should provide GUI (Graphical User Interface) to provide the standard scorecard development steps like data cleansing, single factor analysis, multifactor analysis, log-odds scaling and final scorecard generation.		
139	The system should be able to read in any macro-economic data (historical and forecasted). This could include but should not be limited to: GDP, Unemployment Rates, Inflation, Crude price and should be able to build forecasting/forward looking models for all the risk parameters.		
140	System should be able to design model correlating the historical macroeconomic factor and banks various parameters. This could include but not limited NPA, Fresh generation of NPA, Gross advance, fresh sanction of advances etc.		
141	Based on correlation study between the historical macro-economic factor and banks internal factor, System should capable of generating multiplying factor for application in ECL		
142	System should be able to register multiple sets of scenarios and have user interface to manage/register/de-register a scenario set.		
143	The model execution should allow forecasting of future balances based on contractual cash flows. The system should be able to read input data for amortizing/irregular cash flows where required.		
144	System should be able to read all collateral data and allocate collateral against exposures in the most effective/optimized manner.		
145	System should be able to use homogeneous discrete time and non-homogenous continues time processes for the generation of rating transition matrices to model the credit risk term structures (e.g. multi-year default rates).		
146	System should be able to use of survival analysis to estimate multi-year default and / or loss experience by means of measuring the occurrence and timing of default events. For example through proportional hazards regression, competing risks models and discrete-time methods.		
147	Calculation of ECL on the basis of various loss models.		

148	System should have ability to execute various Vector Auto Regression ("VAR") type models in order to generate forward looking scenarios. Specifically Error Correction Model ("ECM")		
149	System should be able to deploy models based on simplified approaches for trade receivables and contract assets (within the scope of IFRS 15), and lease receivables (within the scope of IFRS 117).		
150	System should have ability to perform segmentation analysis to provide both quantitative and qualitative justifications for the segmentation strategy employed. The approaches available for utilization should allow for multi-level segmentation to ensure sufficient granularity.		
151	The system should provide for collateral pricing and optimal utilization across horizon as part of ECL computation. The system should be able to use all collaterals for IND AS 109 and not restricted to only financial collaterals.		
152	System should be allowed for users to define logic for ECL computation through a graphical user interface. User should be able to save/modify/delete and store multiple versions of the defined logics.		
153	System should allow for model execution code to be built as initialization block (to be executed once) and main block which should be executed for each scenario/simulation.		
154	User should be able to explore the portfolio data with drill down capability. The system should be sized to hold the entire portfolio data in memory to be able to enable quick drill down and exploration.		
155	The system should be able to dynamically generate a code for deployment and execution of any of the ECL computation.		
156	User should be able to select portfolio, scenario and models in any combination and run the same once portfolio, scenarios and models are defined in the system.		
157	System should allow running of previous month/quarter/years portfolio and should enable generation of attribution analysis from the same i.e. ability to drill down on the cause for change of ECL number.		
158	System should be able to attribute changes in ECL due to changes in model, Scenarios, new loans originated, prepayment or credit migration over the period.		
159	ECL Execution logs should be available on the user interface to enable debugging of any of the previously executed ECL runs.		
160	System should allow users to build custom logics, if required for any pre or post processing required on the ECL data or outputs. This could include aggregation logics/counterparty level logics or account level adjustments.		
161	The system should provide governance for ECL activities to be carried out by various teams to make the process repeatable, transparent and auditable. The system should provide workflow for orchestration of activities and override of results.		
162	The solution should be able to condition forward ECL measures at both the parameter level (e.g. PD, LGD and EAD) as well as condition at the estimated ECL level.		
163	The ability to generate multiple economic scenarios to be used to condition the forward ECL measurement (e.g. to condition the 1-year, 3-years, 5-years ECL estimates). This includes incorporating any internal economic scenarios generated via Stress Testing, capital planning and business planning.		
164	The solution should be able to simulate the impact on ECL arising from different assumptions and economic scenarios. This includes the ability to forecast the ECL measures over "foreseeable horizon". This can vary from a few years to 10 years depending on the expected life of the financial asset. Additionally the simulation should include the ability to "test" new business rules (e.g. segmentation, modelling assumptions, stage allocation rules, etc.) for the purpose of an impact assessment.		


165	Simulation should include sensitivity type analysis and scenario type analysis to simulate the impact on ECL levels. The solution should be able to accommodate multiple scenarios (including sensitivity assumptions).			
166	The solution should include the ability to apply ad-hoc adjustments to measured ECL values (at both the ECL parameter level and the estimated loss amount level). The adjustments include management and / or regulator overlays, and prescribed or specific adjustments to the PD, LGD and EAD parameters. Where adjustments have been made to estimated values, the solution should be able to track and keep in record, the specific adjustments made and the impact on final estimated ECL values.			
167	The ECL engine should support Distributed in-memory processing for large volume of data.			
168	The ECL engine should support use of commodity hardware for large volume of data.			
169	The ECL engine should support big data platform for processing of large volume of data.			
170	Facilitate to arrive at account level undrawn balances for fund and non-fund based facilities and respective ECL.			
171	Calculate income in respect of NPAs by netting existing ECL and arrive at ECL thereof.			
172	EIR Measurement	Advances are to be measured at amortized cost using Effective interest rate method (EIR). Customer wise Effective interest rate needs to be built in the accounting package so that the interest accrual is done based on EIR rate and not on coupon rate. Processing fees income taken from each customer has to be tagged with each customer in the system. It may happen that processing fees taken from a customer includes fee for multiple product such as term loan, cash credit, Letter of credit, Bank Guarantee etc., so in those cases bank needs to bifurcate the fees between multiple products so that processing fees for term loan can be used in the calculation of EIR for each term loan. Illustration for EIR computation has been attached for reference.		
173	Processing fees or any other loan origination fees collected and incremental cost incurred at the time of loan booking should be parked in "Unamortized fees" sub GL.			
174	Other charges like documentation charges, Inspection fees, etc. which are collected upfront at the time of origination of loan need to be captured separately in a separate GL. Upfront Fees related to loan accounts needs to be tagged to respective loan account.			
175	Bifurcation/mapping of all charges/Fees (Such as but not limited to Processing Fee, Mortgage Fee, Doc charges, etc.) received from borrowers into One-time charges & recurring charges.			
176	Processing fees reversed subsequently due to waiver or concessions given should also be factored in account wise.			
177	Solution should have the functionality to generate cash flows (Cash flow engine) based on the repayment schedule or inputs fed in the system / available in different source systems.			
178	The Cash Flow Engine shall be able to create expected and contractual Cash Flow from data characteristics of financial instruments according to different types of contracts			
179	The solution should provide the capability to alter cash flows through parameters (e.g. pre-payment) that can be set as part of configurations. Audit trail to be maintained of these configurations and changes.			
180	The solution should support creation of future cash flow according to original debt repayment schedules and scenarios as required. E.g. According to different/revised reprising schedules such as step up, step down or a			

	combination of reprising schedule. The cash flows shall be created based on inputs of the instruments. It may be possible that there may be different scenarios for single instrument. All such scenarios should be developed by the system		
181	The solution should support calculation of the future cash flow in the event of changes in estimate. This includes but is not limited to: Prepayments, Debt Restructuring, Interest Rates, Disbursement / Progressive Disbursements etc.		
182	The system must be able to calculate expected life for individual account and by portfolio based on given requirements by the Bank i.e. behavioural cash flows. Expected life should be parameterized and allowed to change according to specific requirements of the banks for aspects such as prepayments, changes in repayment schedule etc.		
183	The solution should be able to integrate the factors of prepayment pattern, utilization of off-balance sheet items, etc. as part of creation of cash flows. The same shall be based on terms fed in the system for each instrument. Appropriate maker and checker shall be there for insertion of the terms. If there is change in some input, then revised future cash flows should be generated by the system. E.g. if there is change in interest rate, then cash flows needs to be revisited.		
184	The solution should support the creation of cash flows based on the EMLs, Bullets and such other standard amortization methods.		
185	The solution should be able to store detailed cash flows for future reference and transparency for time period as required by the bank		
186	The solution should have the capability to have different sets of cash flow calculated for each account as required by the bank. Cash flows for the different possible scenarios shall be generated by the system. E.g. what will be the cash flow if call option not exercised, what will be the cash flow if the same is exercised etc.		
187	The solution should have the ability to calculate expected cash flow for purchased impaired assets in accordance with IFRS9		
188	The solution shall have the capability to calculate expected cash flows with forward looking interest rate changes / currency rate changes etc. which are different per scenario.		
189	The solutions should cater to the requirement of manual input of recovery, expected or contractual cash flows or apply loss rates to a set of cash flows as required.		
190	The solution should support all types of financial instruments, either those with fixed interest rate, floating interest rate, or variable interest rate.		
191	The solution should have the ability to calculate expected cash flow for purchased impaired assets in accordance with IFRS9 / IND AS.		
192	The solution should have a function to calculate the fair value of a financial instrument using cash flow discounting,		
193	The solution shall have the capability to calculate expected cash flows with replication (of credit cards) behaviour which is different per scenario. The system should be able to do the sensitivity analysis.		
194	The Cash Flow Engine shall be able to take Cash Flows provided as download from other systems within the Bank, if available.		
195	System should facilitate calculation of Effective interest rate (EIR) of all financial instruments and generate cash flows required for the same.		
196	Effective Interest rate should be recomputed whenever there is any change in the normal repayment schedule of the customer for e.g. Partial Prepayment, interest rate change, EMI defaults, tenure change, EMI change, Replacements restructuring etc.		

197	The solution should handle amortization of fees/commissions/costs, discounts/premiums, which are considered integral part of the EIR.		
198	Solution should be able to recalculate the carrying value of the loan (i.e. modified cash flows needs to be discounted at original EIR) and recognize a gain/loss on modification to P/L statement.		
199	The solution should be able to calculate EIR for both fixed rate / floating rate/ variable rate purchased impaired assets in such a way that an EIR will be available for the original contractual terms as well as the EIR for the purchased impaired assets in accordance with the Expected loss model of IFRS 9:		
200	The solution should be able to calculate the effective interest rate based on triggers set by the bank which could be based on designated account id's, client id's and frequencies: daily, monthly, or every time there is a change in events that change the underlying cash flows/other terms & conditions.		
201	Solution should compute amortized cost of the financial liabilities as per Effective Interest Rate (EIR) method after taking into account transaction cost and other charges. Transaction cost should automatically be extracted from the system or solution should be flexible enough to accept the manual feeding of such information financial liability wise.		
202	The solution should be able to calculate the effective interest rate of a financial instrument throughout its life, either the financial instrument with fixed life or the expected life.		
203	System should run a parallel schedule to calculate interest as per EIR at every EOD at account level taking into account upfront fees collected from customer.		
204	The solution should be able to support uploading of the effective interest rate from external system. It should support manual changes or input of the EIR, approval workflow and audit trail to be maintained.		
205	The solution should have the capability to define triggers or indicators to recalculate changed effective interest rate. The calculated values to be maintained for reference throughout the lifetime of the instrument. For example, when call option not exercised, then EIR shall be calculated on the contractual life rather than estimated life.		
206	The solution should be able to handle EIR calculations and amortized cost adjustments for all financial instruments which are measured at amortized cost or FVOCI including staff loans.		
207	The system must provide report/record/log of the events or any other reasons that cause change in income/expense recognition.		
208	The solution shall have the ability to provide the necessary transparency for auditors to display the historical calculation results and change events.		
209	The solution should have the ability to drill down from an aggregated interest revenue level to transaction / event level of detail on which the effective interest rate accrual was calculated		
210	The solution should provide the ability to integrate the EIR calculated with the Impairment calculations or any other rate as chosen by the bank. Impairment testing checklist /format should be embedded in the software.		
211	The system should allow user to perform the analysis and make correction of any errors on the contract level.		
212	For purchased credit-impaired assets, the solution should have the capability to calculate an EIR based on the contractual cash flow calculation, a credit-adjusted EIR based on the expected cash flow.		
213	The solution should be able to generate the amortization schedule at account level or portfolio level		
214	System should have capability to build and store amortization schedule from the date of origination of loan.		

215	The system should allow for "drill down" from aggregated balance into detailed information of each contract and its valuation results on historical dates. Solution should generate amortization table by contract/account that shows the breakdown of cash flow into; 1.Principal 2.Cash flow movement 3.Actual/Contractual Interest 4.Interest according Effective Interest Rate 5.Carrying amount (In case of Purchased or Originated Credit-Impaired Assets) 6.Expected Credit Loss/Impairment Loss			
216	System should be able to recognize One time charges collected /Bank guarantee commission etc as income over the period instead of recognizing it upfront.			
217	For the amortization schedule, the solution should be able to update the schedule should there be any delay in payment or partial repayment of the instalment amount etc.			
218	Employee loans Outstanding on preferential Interest Rate to be calculate on market rate.	The solution should be able to handle EIR calculations and amortized cost adjustments for all financial instruments which are measured at amortized cost or FVOCI including staff loans.		
219		Solution should be able to do fair valuation of Staff loans and the difference between Fair value and nominal value is to be recognized as employee cost over the tenure of Staff loan		
220		Solution should be able to do fair valuation of Staff deposit and the difference between Fair value and nominal value is to be recognized as employee cost		
221	Solution should be able to calculate depreciation as per Ind AS i.e. using the useful life of the asset. Asset Retirement obligation (ARO) to be added to respective assets and depreciation to be charged on it by the system. Present value of obligation to be recognized in balance sheet.			
222	System should be capable of arriving the ARO value based on the following: 1.Cost of the asset 2.Estimated useful life/tenure of the asset 3.Estimated cost of removal/asset retirement on initial recognition 4.Rate of borrowing for such asset 5.Inflation rate 6.Revaluation date and value as & when applicable 7.Sale of any asset even of any branch must be set through software so that it could be done by 8.permission from Competent authority affecting the P/L a/c directly 9.All reports should be retrieved easily 10.Asset Category-A,B,C,D etc. classification must so that Reports can be fetched category wise			
223	Loyalty Reward Program	Expenses related to point redemption needs to be booked in the year when the points are generated.	With regard to debit card reward points, System should be capable of computing the amount of interchange fees to be deferred as System needs to defer the interchange fees earned into fees allocated for issue of reward points and the balance fee will have to be recognized on completion of the transaction i.e. upfront. The fee allocated	

		Necessary data needs to be collected from the vendor and changes need to be made in system to capture the data.	for issue of reward points to be recognized as revenue as and when the customer redeems the reward points/ when the reward points lapses.			
224		As per present System interest on NPA is calculated in the system but not booked. In Ind As interest will be booked after deducting the provision on the balance outstanding. Necessary changes should be incorporated.	To compute interest in NPA accounts and should be able to create account level as well as GL entry.			
225	Booking Interest on NPA- Stage III		Calculate interest in respect of NPAs by netting existing ECL and arrive at ECL thereof.			
226	Collateral coverage value against each customer advance needs to be generated in the IT system for calculation of Loss given Default numbers for provisioning under ECL model.	 <p>The system should be capable of computing LGD using market based LGD, implied LGD and work-out method as per the nature, applicability and data availability of credit risk exposures. Further, the system should be able to drill down the LGD estimation into industry wise, vertical wise, product wise, workout method wise, year wise/quarter wise/Other frequencies/, collateral-wise and offer additional drilldown options and reports.</p>				
227	Days past due (DPD) to be used for staging of Advances. For Corporate customers, Stage 1 will comprise of 0-59 days past due, Stage 2 will comprise of 60-89 days past due & Stage 3 will comprise of 90 days & above.	<p>Solution to segregate retail and corporate asset class as per RBI definition taking into aggregate fund based and non-fund based exposure for domestic and overseas exposures and further segregate retail and corporate advances into Stage I, stage II and stage III advances as per guidelines.</p>				

	For retail customers, Stage 1 comprises of 0-29 days, Stage 2 will comprise of 30-89 days past due & stage 3 will comprise of 90 days & above.			
228	Restructured Advances as per RBI circular has to be tagged as stage 3.	All Restructure Advances to be Marked as Restructure in System & subsequently to be tagged as Stage III.		
229	Collateral coverage value against each customer advance needs to be generated in the IT system for calculation of Loss given Default numbers for provisioning under ECL model.	Appropriate logic needs to be developed in the system. 		
230	Existing interface and making necessary changes to upgrade interfaces between the proposed solution with the applications and systems mentioned :-	Finacle – Core Banking Solution (Domestic & Overseas) Treasury Application (ITMS) Manual Data (Excel Files) Balance Sheet Package Lending Automation Processing Solution (LAPS) Government Business Module (GBM) Any Other System		
231	Solution should have the flexibility to cater for any change/ specific requirements (e.g. change in SBU, product grouping, split of profit centre, change of GL codes and etc.)			
232	The solution should make it possible to configure accounts code to be in line with the Bank's chart of accounts based on e.g. transaction type, sub-type, sub-portfolio, currency, branch, etc.			
233	The solution should be able to generate journal entries with assigned DR/CR side of accounts based on posting transactions (EIR/Impairment, provisions, unwinding and interest/fee revenue) with changes in balances as posted amount and pre-configured rules.			
234	Solution should ensure that each posting transaction should be assigned with account number based on accounts configuration			
235	Solution should output following components as part postings: transaction type, sub-type, DR/CR account type currency type, positive or negative sign of the transaction			
236	To facilitate generation of accounting entries and automate the entire process to the maximum extent so as to avoid / ensure minimal manual			

	interventions.		
237	To generate reports and dash boards as per regulatory (RBI) specifications/disclosure requirements both under XBRL and other formats as and when required.		
238	Solution should generate the report for recognition / de- recognition of financial assets at any point of time as per the Ind AS requirement with justification.		
239	Solution should generate report of classification of financial liabilities as per Ind AS requirement		
240	System should calculate all outputs, i.e. ECL, EIR, Fee amortization / income adjustment number at account level. The same needs to be stored at account level and be made available as accounting entry to be posted as adjustment into the bank's GL.		
241	User should be able to choose periods on the user interface between which attribution/reconciliation analysis needs to be run.		
242	Reconciliation should be a readymade feature and not something that requires implementation services, coding or programming.		
243	Solution should support recording of services offered to the customer as part of income or expense if the charges are waived off/discounted.		
244	The system should allow for building a workflow process for building, approval and modification of rules to ensure it complies with the banks approval and audit process		
245	Ability to change segmentation rules within a system and controlled environment. For example, when changes to business models, launch of new products, restructuring of portfolio, etc. occurs, the solution is flexible in redefining the new segmentation strategy, which will feed into the development of ECL models.		
246	Ability to define customized business rules that is based on internal significant financial assets segmentation. For example, special accounting rules for significant loans, regulatory treatment of selected financial assets, loss provisions, etc.		
247	All reports should support drill down capability to individual account / loan level. The reporting tool should support in memory processing such that drill down is available on click only.		
248	The solution should have pre-defined regulatory disclosure templates and pre-defined management reporting templates which can be readily generated. Where additional disclosures are required, the solution should be flexible and capable of amending defined templates to incorporate the new requirements. This should include the ability to readily define the data requirements to support the new disclosures, within a controlled environment.		
249	The tool should have the ability to use In-Memory Analytics to enable users to conduct fast, thorough exploration and analysis on all data across different data sources. The offering should have integrated modules for in-memory analytics comprising data preparation, exploration, visualization and administration.		
250	The tool should provide Self-Service platform without the need to build a semantic metadata layer for End users, thus reducing dependency on IT		
251	The tool should provide Scalability and High Performance leveraging cost-effective architecture.		
252	The tool should allow data to be accessed from any industry standard data source using native connectors and load the same in to memory.		
253	The tool should allow data load jobs to be scheduled to automate the process of loading data into memory		

254	The tool should have the ability for Interactive report viewing for information consumers using iOS and Android devices using a native application most popular gestures and capabilities, including zoom, swipe, etc., to optimize ease of use and user engagement.		
255	The tool should provide support for Mobile Device Management (MDM) integrating with 3rd party technologies		
256	Ability to process multiple data files from multiple sources to the defined data model supporting model development. This includes within a system environment, the ability to handle exceptions raised during the Extract, Transform and Load ("ETL") process. The solution should thus include tools, capabilities to assess data quality issues (e.g. missing values, outliers, wrong format, inconsistencies, etc.).		
257	Solution includes tools to manage the data used for modelling activities including ability to manage data from other / new sources and transform the data from different sources and format into a common data structure and format. Ability to establish a data dictionary to support developmental activities		
258	The solution should support data error handling, data substitution or data enrichment rules through a GUI interface which can be configured by business user.		
259	The tool should provide a Central Metadata Repository to manage the flow and traceability of data and structures.		
260	The solution includes a single data store and central reference on the data requirements necessary to support modelling activities.		
261	The Tool should provide for Integrated workflow scheduling, automatic load balancing and grid computing support.		
262	The tool should provide for creation of user-defined external transformation functions		
263	The tool should provide pre-build functionalities for the following: The tool should have documentation available in the form of notes. The tool should have enhanced mapping features that includes intelligent handling of data type conversions, easy and selectable customized mappings, and controlled propagation of changes to mappings. The tool should have the ability to easily capture and display performance information such as real time, CPU time, memory use, input/output, and record count data, with the ability to display this information as a table or as a graph.		
264	System shall be able to facilitate bulk data movement		
265	System shall be able to join data from multiple sources and support for concurrent processing of multiple source data streams, without writing procedural code		
266	System shall be able to check incoming data for quality, reliability, consistency and validity, and then transform as required.		
267	System shall facilitate data profiling based on dynamic, user defined validation rules and support identification of user defined „events“ to trigger alerts (through email reports) to authorities.		
268	System shall support In-memory data handling		
269	The solution should be able to keep the historical record of impairment trend for analysis at least for past 10 Years.		
270	The solution should have the capability to automate the reporting of differences due to changes in the models vs. re- calibration of the models. The system shall calculate the quantification effect due to the change in business models (if it fits in exceptional cases)		
271	The solution should have the capability to reconcile differences between the capital calculations and the IFRS 9 / IND AS calculations.		

272	The solution should be able to generate accounting entries for the allowances on a granular level allowing the accounting positions to be used for IFRS 7 reporting.		
273	The solution should cover the disclosure requirements as set out by IFRS 9		
274	The solution should have a standard reports build-in as required by IFRS 9. Please provide the full list of IFRS 7 and 9 disclosures that is part of the solution. System should be able to provide reporting formats as prescribed by RBI as and when prescribed and incorporate differences if an		
275	The solution should have the ability to produce IFRS 7 & 9-compliant disclosures for management reporting as defined by different business users		
276	The solution should support the new disclosures requirement under IFRS 7 e.g. the new ECL reconciliation (movement among the stages), total carrying amount of stage 1 to stage 2/3 and stage 2/3 to 1 and others as required from time to time		
277	The solution should generate credit quality analysis by credit risk rating grades, the gross carrying amount of financial assets and the exposure to credit risk on loan commitments and financial guarantee contracts. Financial assets include: loans & advances at amortized cost, debt investment securities at amortized cost, debt investment securities at FVOCI		
278	The solution should generate reconciliations arising from ECL from opening to closing balance by class of financial instrument and products.		
279	The solution should generate reconciliations of changes in the net carrying amount of credit-impaired loans and advances.		
280	The solution should generate the contractual amount outstanding on financial assets that were written off during the reporting period and are still subject to enforcement activity.		
281	The solution should generate modified financial assets reports: a) amortized cost before modification b) net modification gain or loss recognized for financial assets		
282	The solution should generate concentrations of credit risk reports by sector and by geographic location		
283	The solution should allow users to perform drill down for details & analysis from the disclosure reports		
284	The solution should allow custom disclosure report formats created by users to be plugged-in for report creation		
285	The solution should allow additional disclosure reports to be tailored to internal management reporting		
286	The solution should have the ability to compute the gain/loss incurred upon any type of type of modification to the instruments i.e. comparison between the new discounted cash flows (using OEIR) vs. original discounted cash flows before restructuring.		
287	The solution should have the ability to compute the gain/loss incurred upon any type of modification to the instruments i.e. comparison between the new discounted cash flows (using OEIR) vs. original discounted cash flows before restructuring.		
288	The solution should allow report format configuration where the user can define the dimensions of each report		
289	The solution should allow the scheduled generation of reports and allow configuration of the scheduler to the following but not limit to: a) Monthly, b) Quarterly, c) Yearly		
290	The solution should have the ability to create reports in multi currencies at user discretion		
291	The solution should be able to provide consolidated reports of multi entities.		
292	Solution should allow users to create reports as pr their requirement - It should be possible to create reports based on all the data available in the system. System should allow flexible ways for user to create reports under		

	authorization scheme.		
293	At least either of the options should be allowed		
294	a. Option to create reports definitions using a form of a transparent script language (e.g. SQL) and be able to state the following:		
295	b. Content of the reporting, i.e. fields, aggregating functions, scope (e.g. particular Risk Portfolio)		
296	c. Groups of users authorized to view the particular report		
297	d. Approach to generation (automatic or on demand generation);		
298	e. Parameters of the report (i.e. what information should be indicated by a User generating the report, e.g. date of data).		
299	f. Option to create report definitions using a report wizard that utilizes a predefined set of data.		
300	g. It should be possible to export reports in any form of files required by the Bank directly from GUI		
301	Reporting 1.Provision related 1.1.Allowance & Provision by Line of Business 1.2.Allowances - Stage-wise 1.3.Provision - Stage-wise 1.4. Stage Reassignment Movements - changes in provision due to manual stage re-assignments 1.5.ECL Variance Across Runs by Line of Business 1.6.Recoveries and write off 1.7.Segment Wise Allowance and Provision 1.8.Stressed provisions Across Business Lines 1.9.Provision comparison Across Business Lines		
302	2. Stage determination Related 2.1.Stage Classification 2.2.Stage Classification by Line of Business 2.3.Stage Transition Matrix 2.4.Stage Classification Trend 2.5.Stage Comparison 2.6.Stage Classification by Product Type 2.7.Stage Classification by Customer Type 2.8. All the reports on stage determination should be available post manual reassignment separately		
303	3.Cohorts Composition 3.1Cohorts Composition across Stages 3.2Proportion of Cohorts and Non Cohorts in Stage processing 3.3ECL Cohorts Composition across Stages		
304	4. Trend Analysis 4.1. Allowance & Provision Trend 4.2. Allowance Trend - Stage-wise 4.3. Provision Trend - Stage-wise 4.4. Allowance and Provision Trend Absolute and Percentage Terms 4.5. Allowances for Credit losses by Line of Business		
305	5. Credit Quality Analysis - the reports are required to identify if there is consistency in quality of the assets; whether the volume of ECL is commensurate with its corresponding credit quality grade and stage by portfolio 5.1. Amortized Cost Portfolio 5.2 FVOCI Portfolio 5.3Portfolio Composition across Various Classification 5.4 Carrying Amount across Credit Ratings 5.5Account Classification Reassignments		

306	6. Concentration Analysis 6.1 ECL Concentration across Line of Business 6.2 ECL Concentration across Customer Type 6.3 Concentration across Ratings 6.4 Concentration across DPD Bands 6.5 Concentration across 12 Month PD Band 6.6 Concentration across Credit Score 6.7 Vintage Analysis 6.8 Others		
307	7.1 Historical Average Transition Matrix – Wholesale 7.2 Historical Average Transition Matrix – Retail 7.3 Predicted Transition Matrix – Wholesale 7.4 Predicted Transition Matrix – Retail 7.5 Impaired Assets across Business Lines 7.6 Loss Forecast for Wholesale Exposures 7.7 Loss Forecast for wholesale exposures by Time period 7.8 Loss Forecast for Retail Exposures 7.9 Loss Forecast for Retain Exposures by Time Period.		
308	8. Reconciliation - ECL Reconciliation Analysis: should provide a visual description of the ECL movements between two reporting dates.		
309	9. IFRS 7 reporting		
310	10. Financial reporting – Statutory reporting to RBI (both under XBRL and Other Formats as and when required by RBI and other regulators) such as 10.1 RBS Returns, OSMOS Returns, RCA - III 10.2 Form A 10.3 SFR III D 10.4 Form VIII 10.5 Form X 10.6 DSB (Monthly, Quarterly) 10.7 Basic Statistical Returns VII 10.8 Basic Statistical Returns II 10.9 Basic Statistical Returns IV 10.10 Any Other regulatory reports prescribed by RBI		
311	11. MIS Reporting – Reporting for expenses and revenues, profitability and Asset & Liability etc. at: 11.1 Branch level 11.2 Zonal level 11.3 Central office level 11.4 Product level 11.5 Customer level 11.6 Account level 11.7 Employee level 11.8 Profit centre and cost centre level		
312	12. Any other reports as required by the Bank. Solution should be able to implement the following accounting standards:-		
313	1. Presentation of Financial Statement 1.1 IND AS1 - Presentation of Financial Statement 1.2 IND AS7 - Statement of Cash Flows 1.3 IND AS8 – Accounting Policies, changes in Accounting Estimates and Errors. 1.4 IND AS10 – Events after the reporting period. 1.5 IND AS33 – Earning Per Share 1.6 IND AS 34- Interim Financial Reporting		
314	2 Assets 2.1 IND AS2 – inventory 2.2 IND AS16 - property plant and equipment 2.3 IND AS17 – Leases		

	2.4 IND AS20 - Govt. Grants 2.5 IND AS23 - Borrowing cost 2.6 IND AS36- Impairment of assets 2.7 IND AS38 - Intangible assets 2.8 IND AS40 - Investment property 2.9 IND AS105 - Non-current assets held for sale and discontinued operations		
315	3 Liabilities and expenses 3.1 IND AS 12- Income tax 3.2 IND AS 19- Employee Benefit 3.3 IND AS 37-Provision, contingent liabilities and contingent assets 3.4 IND AS 102 - Share Based Payments		
316	4. Incomes 4.1 IND AS 11 – Construction contracts, IND AS 18- Revenue, IND AS 115- Revenue from contracts with customers		
317	5. Disclosure Standards 5.1 IND AS 24- Related Party Disclosures 5.2 IND AS 108 – Operating Segments		
318	6. Industry /Economy Standards 6.1 IND AS 21 – The effects of changes in Foreign Exchange rates 6. 2 IND AS 29- Financial Reporting in hyperinflationary 6.3 IND AS 41 – Agriculture 6.4 IND As 114 – Regulatory Deferral Accounts 6.5 IND AS 104 – Insurance Contracts 6.6IND AS 106- Exploration for and evaluation of mineral resources		
319	7. Financial Instruments 7.1 IND AS 32 – Financial Instruments (Presentation) 7.2 IND AS 107 Financial Instruments (Disclosure Requirements) 7.3 IND As 109- Financial Instruments 7.4 IND AS 113 - Fair Value Measurements		
320	8 Business Combination and Consolidation 8.1 IND AS 110 – Consolidated Financial Statements 8.2 IND AS 27 – Separate Financial Statement 8.3 IND AS 28 Investments in Associates and Joint Ventures 8.4 IND AS 111 – Joint Arrangements 8.5IND AS 112 – Disclosure of Interests in other entities. 8.6 IND As 103 – Business Combination 8.7 IND AS 101 – First Time adoption of Indian Accounting standards		
321	Solution to support new GL requirements and change in GL mapping as per Ind AS.		
322	Solution should be able to handle multiple entities (All CBS Branches, Domestic Branches, Overseas Branches, Treasury, Central Office, MOC, MOC Reversal, Global etc.)		
323	Solution should have capability to handle multi currencies at entity level and consolidated level		
324	System should support event based accounting treatments based on IFRS9		
325	Solution should be able to generate business events and send to the Bank's Accounting Rule Engine (ARE) to generate accounting entries. Business events should at least contain information such as type of transaction, accounting event code, amount, any other GL dimensions or attributes as required by ARE system, etc. in order to facilitate creation of accounting transactions.		
326	Solution should be able to generate report showing the accounting entries passed/ to be passed for Ind AS requirement with adequate justification.		
327	Solution should facilitate generation of Profit and Loss account, Cash flow statement, Segment reporting, Other Comprehensive Income account, Balance sheet, financial asset ledger etc., Profitability reports (Domestic and		

	Overseas branches), Sector wise non-fund based reports, CRAR reports as per the Ind-AS requirements., Key Financial Ratios, Disclosures Statements as per Ind-AS requirements, ACB & Board Memorandum, Abridged Balance Sheet. System should be capable of generate the stated reports for All CBS Branches, Domestic Branches, Overseas Branches, Treasury, Central Office, MOC, MOC Reversal, Global etc.		
328	Facilitate consolidation & generation of balance sheet of the Banking group.		
329	For all the GL codes System should be able to maintain corresponding tax base amount, which can be achieved using a) Maintenance of all the tax rules in the system b) Maintenance of a mapping of GL codes to corresponding tax base amount. c) System should have the capability to provide both book base and tax base amount in a report, if required.		
330	User should be able to attach files and comments to rule flows on the GUI to enable them to document the reason for changes and any substantiating documentation		
331	System should be capable for uploading of data from Finacle in uploadable format (text etc.)		
332	System should be capable for manual feeding of data of central accounts, MOC, MOC Reversal etc.		
333	The application should be implemented centrally incorporating required functionalities.		
334	The application is to be integrated with various source systems		
335	The Application should be implemented on mapping Rule based Consolidation and should be seamlessly automated		
336	The Application should support Multi-GAAP (Generally Accepted Accounting Standards).		
337	The Application should support multi currency accounting. The application should be configured to translate the balances into INR or any other desired currency or vice versa.		
338	To implement reports for end users like Financial Statements, Schedules to the Financial Statements, Ad hoc Reporting and Account inquiries.		
339	The Application should be implemented with provision for back dating of transactions and also updating historical values		
340	Multiple sets of same books of accounts to be permitted as per different accounting principles		
341	Ability to define multiple legal entities		
342	Ability to define scalable Organization Structure		
343	Ability to attach and store scanned document		
344	System should support historical data migration as well retrieval		
345	To develop and establish ETL from various sources/legacy systems		
346	Define the chart of accounts in such a manner that account balances can be tracked by following dimensions. These dimensions can be further enhanced during the actual implementation phase: 1.Entity 2.Branch 3.Line of Business 4.Product 5.Ledger/Account code 6.Source 7.Department 8.Inter-company, Future use		

347	The system should enable mapping of chart of account segments and respective segment values of transaction systems with the chart of accounts and the respective segment values of EGL system. The mapping should be possible one-to-one or many-to-one. This should be supported with well defined interfaces		
348	Setup different analysis codes one level below the GL account code combination without increasing the size of chart of accounts		
349	Define parent child relationship at multiple levels. The system should not allow posting to the parent account.		
350	Group the accounts by different types (user defined) e.g: assets, current assets, etc.		
351	Centralized account maintenance capability		
352	Cost/Profit center wise analysis		
353	Define automatic and default account assignments that the bank always use to post to a particular accounting dimension		
354	Define statistical/memo accounts for collecting Non-financial information		
355	Ability to create and modify segment roll-ups (hierarchical relationships). A hierarchy builder to support the multilevel changes with drag and drop facilities		
356	Parent level /child level group based reports Ability to. upload chart of accounts to legacy systems for validating purposes		
357	Flexibility in defining accounting periods		
358	Flexibility for daily / monthly / quarterly (user defined periods)		
359	Provision of holiday marking.		
360	Multiple calendar period should be in open status and available for posting		
361	The Solution should support seamless integration with the Banking & Financial system and other systems.		
362	Have separate period closing capability for each Ledger		
363	System should support both soft closing / Hard closing		
364	System should allow Reopening of closed period subject to valid authorization		
365	System should support multiple currency		
366	System should have provision to set as default currency		
367	System to support statistical transaction to capture Financial /non financial information		
368	Posting should be allowed only for balanced transactions. However, unbalanced transactions should be saved, if required.		
369	Upload transactions from a spread sheet with active edit, control, checks and validations (as if its captured online).		
370	Copy existing transactions, edit and use them for new input Process transactions (with restricted access) related to prior periods.		
371	Process transactions (with restricted access) related to Future periods		
372	Post transactions single or by batch		
373	Post transactions in real time and batch		
374	Restrict data entry to those accounts that are marked as control accounts		
375	Provide immediate, on-line pop-up to the user of erroneous transactions. Advise reason for error and provide the ability to enter corrections on-line.		

376	The system should support simultaneous accounting for multiple reporting requirements		
377	Ability to define exchange rates with multiple currencies and also vis-à-vis base currency		
378	Ability to process transactions entered in foreign currency, based on the exchange rates definition, in an on-line mode		
379	Tracking and reporting of all foreign currency transactions in transaction currency and base currency		
380	Allows automatic / manual matching of debit and credit transactions in certain GL accounts		
381	System should auto generate batch number.		
382	To have certain transaction templates so that the same is used during the transaction entry.		
383	Setup recurring transactions with amounts or formula		
384	Generate recurring transactions and modify the generated transaction if required		
385	Setup automatic and manual reversing transactions. For, example, create automatic reversal transactions upon opening a period of accrual transactions		
386	Posting to periods irrespective of transaction date (in the transaction entry there must be field to specify to which period the transaction will be posted)		
387	Transactions should be in a position to be reversed or cancelled with appropriate authorization		
388	Reversal transactions: These transactions are provisional transactions and get updated in the books of accounts. It has to capture an additional date called "Reversal Date". On the date of reversal it should automatically reverse those transactions		
389	Allow Mass Reversal of transactions based on user defined parameters		
390	Transactions originating in other systems or sub ledgers may be required to be posted in the general ledger either in detail or in summary. This could be done for individual journal as well as auto-posting		
391	Receive direct journal feeds from various systems, such as Finnacle etc		
392	System should have the ability to approve the entries generated using either batch upload or through work flow management		
393	The system should enable definition of levels of hierarchy for approving entries and avoid posting without adequate approval		
394	It should support maker/ checker concept.		
395	More than one level of authorization based on the amount /account level.		
396	Set up default accounting rules for inter organization transaction processing		
397	Ability to automatically generate inter organization entries and hold awaiting authorization. Auto reconciliation should be well defined		
398	Ability to provide inter-organization transaction summary register by business area		
399	Ability to identify the inter-organization balances Close and open the year automatically based on user defined parameters		
400	Keep adjusting period for audit adjustments and other financial transactions after the year close		
401	Generate closing exception reports		

402	Ability to maintain an automatic update for retained earnings when closing the ledger at year end		
403	Ability to ensure at year-end close that all entries are balanced and that all periods have been closed		
404	Ability to allow different organization/levels in the organisation to close independently		
405	Ability to re-open prior periods and make adjusting financial entries, re-run allocations using that period's allocation methodology and post allocation methodology changes.		
406	Ability to zero out P&L accounts for next year processing during year-end close		
407	Ability to carry forward prior year-end Balance Sheet account balances to new fiscal year as beginning balances during year-end close		
408	Ability to prepare consolidated financial statements annually taking subsidiaries and associates company's financial statements into consideration		
409	Ability to generate elimination entry for intercompany transactions automatically		
410	Ability to generate minority interest for subsidiaries and associates from the system		
411	Flexibility in defining and generating report in any currency.		
412	Consolidation based on various user defined grouping i.e. Branch/Region/ Zone/STC etc.		
413	Segment wise consolidation		
414	Perform on-line transaction inquiries for the following: Range of accounts or segments Summarized at various levels of parents / summary accounts For a period or for a range of periods Actual or budget or both with variance Period to date, year to date or quarter to date Perform budget vs. actual with variance inquiry Inquire account balances for net change and period balances		
415	Perform cross module drill down. From account balance to summarized journal to detailed journal line and finally to the transaction window where it is input		
416	Print and view posted transaction entries (historical transaction entry listing) by different criteria such as: Transaction Number Period Amount Date of Entry Transaction source, category, type		
417	Apart from the above system should support various user defined Ad-hoc Queries		
418	Should support following reports (but not limited to): Balance Sheet (bank and consolidated) Profit and Loss (bank and consolidated) Schedules for Balance Sheet and Profit & Loss (bank and consolidated) Abridged Balance Sheet		
419	System should support all the above reports or the present as well as previous periods		
420	Generate transaction detail report for a single account or for a range of account by: Year to date Period to date Summarized Detailed		

421	System should have capability to generate the report even after initialization of data during year end closing. During year end closing All the Income and Expenditure heads balance get initialized so the balance in all the accounts when extracted will be zero in the new financial year so system should have the logic to handle this scenario.		
422	Facilitate Generation of trial balance summarized and detailed on prescribed periodicity		
423	Facilitate Generation of trial balance summarized by account segment Print transaction vouchers from the system before and after posting with the status shown separately		
424	Facilitate Production of general ledger reports for user selected accounts and periods (General Ledger Scrutiny)		
425	Reprint reports for prior periods		
426	Financial Statements -Print Financial as output		
427	Financial Statements - Maintains Multiple Past Years Financial Data		
428	Financial Statements -This Month Versus Last Month, as well as same month/day previous year		
429	Financial Statements -Year to Date Versus Last Year		
430	Financial Statements -Year to Date Versus current and other Budgets		
431	Financial Statements -Variance Expressed as Percentage or value		
432	System should have the capability for generation of various user defined reports with setting rules for rounding off amount as desired.		
433	All the reports should be supported in excel/xml/ PDF / CSV formats etc.		
434	System should support scheduling of batch jobs for auto generation of reports and mailing to Branches /ROs/ZOs		
435	System should support classification and reclassification (IFRS 9/Ind AS 109) of the financial assets and liabilities and associated accounting impact		
420	Ability to consider only relevant transactions for the purpose of ECL Impairment computations for the financial assets prescribed under IFRS 9/Ind AS 109		
421	System should provide pre-defined (out of box) rules for IFRS 9/Ind AS 109 Stage 1, Stage 2 & Stage 3 and allow for user defined rules as well		
422	System should support workflow features and audit facility for overrides for classification/reclassification/stage determination		
423	System should able to compute 12 month ECL & Lifetime ECL.		
424	System should support provisions based current RBI norms, EIR calculation of credit impaired assets, calculation of credit shortfall based on forecast cash flows, rating migration and collateral value. System should provide out of box methodologies for computation of 12 month ECL & Lifetime ECL as well as allow user defined methodologies.		
425	System should support computation of Effective Interest Rate and Fair value for IFRS 9/Ind AS 109		
426	System should support inward and outward interfaces with other systems in bank		
427	System should provide standard reports for IFRS 9/Ind AS 109		
428	System should be able to recognize income, gains, losses of hedged and non hedged derivatives based on IFRS 9/Ind AS 109 requirements		

Technical Specification Compliance Sheet

SL NO	Technical Requirements	Offered Specificati on	Compliance (Yes/No)
1	The integration architecture should include the types of interfaces supported; the standards used and should comply with Bank architecture principles		
2	The Bidder will ensure and incorporate all necessary security and control features within the application, operating system, database, etc. so as to maintain integrity and confidentiality of data at all times		
3	When developing the interfaces, the Bidder should ensure the requirements of data format, frequency of data transfer, quality checks and validations before data transfer and priorities for data transfer are identified and addressed.		
4	The Bidder will be responsible for setting up the test environment for interface testing.		
5	Providing checkpoint reports to ensure thorough reconciliation of the data, while ensuring data integrity		
6	Formulating the Data Migration strategy and process documentation		
7	The successful bidder should replicate the whole setup for all modules with customization in DR		
8	Bidder has to provide support in fine tuning the performance of software solution during the contract period as and when required and at regular intervals		
9	Bidder to provide SOP (Standard Operating Procedure) for all development and customization and maintenance activities from time to time		
10	The bidder should provide detailed procedure for backup and restoration for Indian Accounting Standards (IndAS) in accordance with Bank's Backup and restoration Policy. Same will be shared with selected bidder		
11	The solution should be able to seamlessly call Data Quality functionalities such as data standardization as part of the ETL process flow		
12	The ETL tool should provide native access Industry leading RDBMS like ORACLE, DB2, SQL Server, Sybase, MYSQL, Postgres and appliances like Netezza, Teradata, etc.		
13	The solution should have the ability to perform complex search (based on object name, type, date range etc.) of the metadata repository and should also be able to save search criteria for reuse.		
14	The solution should provide the ability to export metadata as a package for backup and archival and import the same through a wizard driven interface.		

15	The solution should have the ability to easily capture and display performance information such as real time, CPU time, memory use, input/output, and record count data as a table / graph		
16	The solution should provide a graphical user interface to profile the data to understand and analyze the quality of data	.	
17	The solution should provide Scalability and High Performance leveraging cost-effective architecture	.	
18	The solution should provide the capability to export data to Excel, PDF and CSV/TSV document formats		
20	The solution should support distribution of Reports and Dashboards to iPad and Android devices.	.	
21	The solution should be capable to schedule & distribute reports/dashboards		
22	Ability to define format of Reports		
23	Data Management covering ETL, Data Quality, Name Screening, De-Duplication	.	
24	Data Repository to store Bank wide data in a organized manner	.	
25	Ability to audit all operator activity for further investigation if required.	.	
26	The system should only be accessible by authorized Bank"s users.	.	
27	The system should be configured with various user profiles with restricted privileges per user group depending on their role	.	
28	Must comply with Bank"s Information Security Requirements	.	
29	Password protection should be available and no system password should be displayed in clear text	.	
30	The system administration should be kept separate from operational processing area.	.	
31	Ability to completely rebuild all data from back up.	.	
32	The system must have the ability to have appropriate recovery/restart points built in	.	
33	Ability to switch seamlessly to a Bank assured disaster recovery site.	.	
34	The system must have an assured DR site in place.		
35	There needs to be a DR Script users can run following switchover/restore to both the DR site and back again to Primary site.	.	
36	There should be maker checker implementation for all the critical functions to be carried out by an user. Application should have facility to define admin roles.	.	
37	The solution should provide the solution architecture in detail describing the components involved in the entire set-up.	.	
38	The solution should provide details of the clustering/failover mechanisms proposed.	.	
39	The solution should describe the technical architecture in detail with the hardware and environmental software requirements.		

40	The system should provide the basis/parameters considered for the sizing recommended. And it should provide year wise sizing plan.		
41	The system should provide details of the integration methodology proposed, API structure and the ease of integration with different application as well peripheral systems.		
42	Integration/interface architecture is based around industry best practices		
43	The System needs to have a Distributed Architecture to allow for load balancing, high availability and failover		
44	The system should integrate with existing industry standard security methods (MSAD, LDAP, etc) for authentication. The system should support multiple sources of authentication for single application.		
45	All data, metadata and computation rules should be centrally located for easy maintenance, security and to present a single version of truth at all times.		
46	Validation of various user ids and checking of adequate Privilege		
47	Specific reports for transaction posted in restricted accounts Once reporting period Audited/reviewed results are finalized and frozen, no alteration should be allowed through any user ID.		
48	Audit trail to track changes like Addition, Deletion and Modification to master data e.g. Chart of Accounts		
49	Audit trail to track changes like Addition, Deletion and Modification to transaction data e.g. Transaction Entry posted		
50	The System should provide easy Audit Trail Functionality for monitoring Changes		
51	Ability to identify the who, the what, and the when of changes made to the transactions		
52	Provide full on-line help look-up facility for all of the fields within journal data entry, including account numbers and display descriptions for code verification etc. Aggregation should be at Branch / Region/Zone / Co level should be possible.		
53	All the existing reports and generation of various files on periodical intervals as done in the legacy system should be supported.		
54	The bidder is responsible for migration/mapping/pulling of Data form the existing system to proposed system.		

BILL OF MATERIAL AND PRICE SCHEDULE

(To be submitted with technical Bid)

Sl. No.	Description	Specification	Additional Information
1			
2			
3			
4			
5			
6			

Place.

AUTHORISED SIGNATORY

Date.

Name:

यूको बैंक  UCO BANK

Designation.

Confirmation on Compliance of Eligibility Criteria

Sl. No.	Criteria	(Proof of Documents required/must be submitted)
1	Bidder should be a company registered under Companies Act 1956 and Companies Act 2013 since the last three years as on RFP submission date.	Certificate of incorporation & Commencement of Business (whichever applicable) should be submitted.
2	The bidder submitting the offer should have minimum average turnover of Rupees 100 Crores for the last three financial years i.e. 2015-16, 2016-17 & 2017-18. This must be the individual company turnover and not of any group of companies.	Copy of audited balance sheet of the financial year 2015-16, 2016-17 & 2017-18.
3	Bidder should have positive operating Profit in each of the last three financial years, (2015-16, 2016-17, and 2017-18).	Copy of audited balance sheet of the financial year 2015-16, 2016-17 & 2017-18.
4	Bidder should have positive net worth for last three financial years (2015-16, 2016-17 & 2017-18).	Copy of audited balance sheet of the financial year 2015-16, 2016-17 & 2017-18.
5	The bidder/OEM should have implemented/under implementation of the proposed solution at least in any one Scheduled Commercial Banks/NBFCs in India/Overseas during last three years.	The bidder has to submit Purchase Order along with letter from client for satisfactory performance of solution and supporting documents for the same
6	The Bidder should be OEM or Original Solution Developer (OSD) or their authorized partners or Service Provider (SP) or System Integrator (SI) of OEM/OSD in India with an authority to do customization/up-gradation during the period of contract with the Bank	An authorization letter from OEM to this effect should be furnished as per Annexure-X. This letter should specify that in case authorized representative is not able to perform obligations as per contract during contract period, the Original Equipment Manufacturer would provide the same.

7	Bidder should not have been black-listed by any bank / institution in India. An undertaking to this effect must be submitted in their letter head.	Self-declaration to this effect on Company letter head should be submitted.
---	--	---

Note: - In this tender process, either authorized representative / distributor in India on behalf of Principal OEM (Original Equipment Manufacturer) or Principal OEM itself can bid but both cannot bid simultaneously. In such case OEM bid will only be accepted. If an agent / distributor submits bid on behalf of the Principal OEM, the same agent / distributor shall not submit a bid on behalf of another Principal OEM in the same tender for the same item or product



Application Integrity Statement

(To be submitted in the Company Letter Head with technical Bid)

We undertake, that application supplied for procurement of solution for Implementation of Indian Accounting standards (Ind-AS)" and other applications provided to Bank as per the scope of this RFP is free of malware, free of any obvious bugs, and free of any covert channels in the code.

Authorized signatory

Name:

Designation:

Place:

Date:



Undertaking by the bidder

(To be included in Technical & Commercial Bid Envelope)

It is certified that the information furnished here in and as per the document submitted is true and accurate and nothing has been concealed or tampered with.

We have gone through all the conditions of bid and are liable to any punitive action for furnishing false information / documents.

Dated this ____ day of _____ 2018

Signature

(Company Seal)

यूको बैंक  UCO BANK

In the capacity of

Duly authorized to sign bids for and on behalf of:

Commercial Bid Template

(Amount in ₹)

SL No	Items	Specification	Unit Cost (Exclusive GST) (I)	GST Amount	Multiplication Factor (II)	Total Cost (III = I x II)
1	Hardware* (with 3 years comprehensive warranty)					
1.1	Server					
1.2	Storage					
1.3	Any other additional hardware along with all drivers and licenses, if any (Pl specify details in BOM)					
1.4	Total (1.1+1.2+1.3)					
2	Software (Licenses with 5 years support/ATS)					
2.1	System Software (including OS/ License etc.) Pl specify in BOM					
2.2	Data Base					
2.3	Application Software					
2.4	Total (2.1+2.2+2.3)					
3	ATS of software per year(should be quoted between 10-20% of Sr. no. 2.4)					
4	Facility Management Resource Charges					
4.1	Facility Management resource Charges for 1 st year					
4.2	Facility Management resource Charges for 2 nd year					
4.3	Facility Management resource Charges for 3 rd year					
4.4	Facility Management resource Charges for 4 th year					
4.5	Facility Management resource Charges for 5 th year					
4.6	Total FM resource Charges for 5 years(4.1+4.2+4.3+4.4+4.5)					

5	Grand Total for supply of hardware, software and FM resources for the period of contract i.e. 5 Years (Total Cost of Ownership, i.e. TCO) (In figure) (1.4 + 2.4 + 3 + 4.6)		
Total Cost of Ownership (in Words) without GST			
Total Cost of Ownership (in Words) with GST			

* Hardware should be quoted for implementation at both DC and DR. Multiplication factor to be specified by bidders.

We confirm that:-

1. The calculation for arriving at TCO is properly mentioned in the appropriate columns and we confirm that the above mentioned rates are accurate. In case of any anomalies in the calculation for arriving at TCO, the Bank will have the right to rectify the same and it will be binding upon our company.
2. If the cost for any line item is indicated as zero or blank then Bank may assume that the said item is provided to the Bank without any cost.
3. Bank has discretion to keep any of the line item mentioned above as optional as per Bank's requirement.
4. We have ensured that the price information is filled in the Commercial Offer at appropriate column without any typographical or arithmetic errors. All fields have been filled in correctly.
5. We have not added or modified any clauses/ statements/ recordings/ declarations in the commercial offer, which is conditional and/or qualified or subjected to suggestions.
6. We have not added or modified any clauses/ statements/ recordings/ declarations in the commercial offer, which contain any deviation in terms & conditions or any specification.
7. We have understood that in case of non-adherence to any of the above, our offer will be summarily rejected.
8. In case of any discrepancy between figures and words, the amount in words shall prevail.
9. Please note that any Commercial offer which is conditional and/ or qualified or subjected to suggestions will also be summarily rejected. This offer shall not contain any deviation in terms & condition or any specifications, if so such offer will be summarily rejected.
10. All prices should be quoted in (INR) only.
11. The price quoted should be inclusive of Cost of deliverables, Enterprise License, installation, customization, configuration, maintenance and support of Solution for Implementation of Indian Accounting Standards as per Bank's requirement
- 12. The ATS charges per annum should be between 10 to 20% of the cost of software components.**
13. Bank will not pay any labour charges for transportation, Road Permit, installation of software, items separately. All such costs, if any, should be absorbed in the above TCO.
- 14. The prices quoted by the bidder shall be exclusives of all applicable taxes i.e. GST (SGST, CGST & IGST). GST will be paid on actual on production of original invoice**

15. Bidder has to show the bifurcation/details of applicable GST (CGST/SGST/IGST) in every invoice
16. The price quoted should be inclusive of Cost of delivery of software, implementation/commissioning, Maintenance of deliverables as per Bank's requirement
17. TCO will be calculated without GST only.

Place:

AUTHORISED SIGNATORY

Date:

Name:

Designation:



Undertaking Letter on the vendor's letterhead for Central Minimum Wages Act & Labour Laws

To,
Deputy General Manager (DIT, BPR & BTB)
UCO Bank, Head Office
Department of Information Technology
5th Floor, 3&4, DD Block, Sector-I
Salt Lake, Kolkata -700064

Sir,

Sub: Confirmation for Government Rules relating to Minimum Wages:

Ref: RFP for Selection of vendor for Implementation of Indian Accounting standards (Ind-AS)" RFP Ref No. DIT/BPR & BTB/OA/3816/2018-19 Date: 31/12/2018

Further to our proposal dated in response to the Request for Proposal (Bank's tender No..... herein referred to as RFP) issued by Bank, we hereby covenant, warranty and confirm as follows:



In this regard we confirm that the employees engaged /or to be engaged in future by our Company to carryout the services in your bank for the above said contract are paid/ shall be paid minimum wages / salaries as stipulated in the Government (Central / State) Minimum Wages / Salaries act in force. All the employees/operator deployed as part of this solution will comply with government's rules and regulations like minimum wages act, Provident Fund and ESIC facility standard. We also indemnify the Bank against any action / losses / damages that arise due to action initiated by Commissioner of Labour for non-compliance to the above criteria.

We further authorize the Bank to deduct from the amount payable to the Company under the contract or any other contract of the Company with the Bank if a penalty is imposed by Labour Commissioner towards non-compliance to the "Minimum Wages / Salary stipulated by government in the Act by your company.

(Proof of compliance and labour license needs to be submitted alongwith the quotation)

Yours faithfully,

Authorised Signatory

Designation

Bidder's corporate name

Place:

Undertaking for Non-Blacklisting / Non-Debarment of the bidder

To,
The Deputy General Manager (DIT, BPR & BTD)
UCO Bank, Head Office
Department of Information Technology,
5th Floor, 3 & 4 DD Block, Sector -1,
Salt Lake, Kolkata -700064

Dear Sir(s),

Sub: Selection of vendor for Implementation of Indian Accounting standards (Ind-AS)" RFP Ref No. DIT/BPR & BTD/OA/3816/2018-19 Date: 31/12/2018.

- a. We M/s _____, the undersigned hereby confirm that we have read and understood the eligibility criteria and fulfil the same.
- b. We further confirm that all the information as per requirement of the Bank have been included in our bid.
- c. Further we hereby undertake and agree to abide by all terms and conditions and guidelines stipulated by the Bank. We understand that any deviation may result in disqualification of our bid.
- d. We have not been blacklisted by any Nationalized Bank/RBI/IBA or any other Government agency/ICAI. No legal action is pending against us for any cause in any legal jurisdiction.
- e. We undertake that adequate number of resources, if required by the Bank, will be deployed for the project to complete the assignment within stipulated time.
- f. (Deviation to the above if any, the Bidder must provide details of such action(s)
 - 1.
 - 2.

(Signature and the capacity of the person duly authorized to sign the bid for and on behalf of)

Pre-Bid Query Format

Bidders have to provide their queries on eligibility criteria, scope of work, terms & conditions etc. in excel format as mentioned below. Bidders are requested to categorize their queries under appropriate headings. Bidders are requested to provide a reference of the page number, state the clarification point and the queries/suggestion/deviation that they propose as shown below (all the pre bid queries will be entertained in this Microsoft Excel format by e-mail).

Clause No	Page No	Original Clause	Query/ clarification/ deviation raised	Bank Response

Place:



Date:

Name & Designation:

Business Address:

Email Address:

Mobile Number

PRE CONTRACT INTEGRITY PACT

(To be stamped as per the Stamp Law of the Respective State)

Whereas UCO Bank having its registered office at UCO BANK, a body corporate constituted under The Banking companies (Acquisition & Transfer Act of 1970), as amended by The Banking Laws (Amendment) Act, 1985, having its Head Office at 10, Biplabi Trailokya Maharaj Sarani, Kolkata-700001 acting through its Department of IT, represented by Authorised Signatory hereinafter referred to as the Buyer and the first party, proposes to procure (Implementation of Indian Accounting standards (Ind-AS)) hereinafter referred to as Stores and / or Services.

And

M/s _____ represented by _____ Authorised signatory, (which term, unless expressly indicated by the contract, shall be deemed to include its successors and its assignee), hereinafter referred to as the bidder/seller and the second party, is willing to offer/has offered the Stores and / or Services.

2. Whereas the Bidder/Seller is a private company/public company/ /partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Public Sector Undertaking and registered under Companies Act 1956. Buyer and Bidder/Seller shall hereinafter be individually referred to as —Party or collectively as the —parties, as the context may require.

3. Preamble

Buyer has called for tenders under laid down organizational procedures intending to enter into contract /s for supply / purchase / etc. of Implementation of Indian Accounting standards (Ind-AS) and the Bidder /Seller is one amongst several bidders /Proprietary Vendor /Customer Nominated Source/Licenser who has indicated a desire to bid/supply in such tendering process. The Buyer values and takes primary responsibility for values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness / transparency in its relations with its Bidder (s) and / or Seller(s).

In order to achieve these goals, the Buyer will appoint Independent External Monitor(s) (IEM) in consultation with Central Vigilance Commission, who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

4. Commitments of the Buyer

4.1 The Buyer commits itself to take all measures necessary to prevent corruption and fraudulent practices and to observe the following principles:-

- (i)** No employee of the Buyer, personally or through family members, will in connection with the tender, or the execution of a contract demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

- (ii) The Buyer will during the tender process treat all Bidder(s) /Seller(s) with equity and reason. The Buyer will in particular, before and during the tender process, provide to all Bidder (s) /Seller(s) the same information and will not provide to any Bidders(s) /Seller(s) confidential /additional information through which the Bidder(s) / Seller(s) could obtain an advantage in relation to the process or the contract execution.
- (iii) The Buyer will exclude from the process all known prejudiced persons.

4.2 If the Buyer obtains information on the conduct of any of its employees which is a criminal offence under the Indian Legislation Prevention of Corruption Act 1988 as amended from time to time or if there be a substantive suspicion in this regard, the Buyer will inform to its Chief Vigilance Officer and in addition can initiate disciplinary action.

5 Commitments of the Bidder(s) /Seller(s):

5.1 The Bidder(s)/ Seller(s) commit itself to take necessary measures to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- (i) The Bidder(s) /Seller(s) will not directly or through any other persons or firm, offer promise or give to any of the Buyer's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage during the tendering or qualification process or during the execution of the contract.
- (ii) The Bidder(s) /Seller(s) will not enter with other Bidders / Sellers into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- (iii) The bidder(s) /Seller(s) will not commit any offence under the Indian legislation, Prevention of Corruption Act, 1988 as amended from time to time. Further, the Bidder(s) /Seller(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Buyer as part of the business relationship, regarding plans, technical proposals and business details, including information constrained or transmitted electronically.
- (iv) The Bidder(s) /Seller(s) shall ensure compliance of the provisions of this Integrity Pact by its sub-supplier(s) / sub-contractor(s), if any, Further, the Bidder /Seller shall be held responsible for any violation/breach of the provisions by its sub-supplier(s) /Sub-contractor(s).

5.2 The Bidder(s) /Seller(s) shall ensure compliance of the provisions of this Integrity Pact by its sub-supplier(s) / sub-contractor(s), if any, Further, the Bidder /Seller shall be held responsible for any violation /breach of the provisions by its sub-supplier(s) /sub-contractor(s).

5.3 The Bidder(s) /Seller(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

5.4 Agents / Agency Commission

The Bidder /Seller confirms and declares to the Buyer that the bidder/Seller is the original manufacturer/authorized distributor / stockiest of original manufacturer or Govt. Sponsored /Designated Export Agencies (applicable in case of countries where domestic laws do not permit direct export by OEMS of the stores and /or Services referred to in this tender / Offer / contract / Purchase Order and has not engaged any individual or firm, whether Indian or Foreign whatsoever, to intercede, facilitate or in any way to recommend to Buyer or any of its functionaries, whether officially or unofficially, to the award of the tender / contract / Purchase order to the Seller/Bidder; nor has any amount been paid, promised or intended to be paid to any such individual or firm in respect of any such intercession, facilitation or recommendation. The Seller / Bidder agrees that if it is established at any time to the satisfaction of the Buyer that the present declaration is in anyway incorrect or if at a later stage it is discovered by the Buyer that the Seller incorrect or if at a later stage it is discovered by the Buyer that the Seller/Bidder has engaged any such individual /firm, and paid or intended to pay any amount, gift, reward, fees, commission or consideration to such person, party, firm or institution, whether before or after the signing of this contract /Purchase order, the Seller /Bidder will be liable to refund that amount to the Buyer. The Seller will also be debarred from participating in any RFP / Tender for new projects / program with Buyer for a minimum period of five years. The Buyer will also have a right to consider cancellation of the Contract / Purchase order either wholly or in part, without any entitlement of compensation to the Seller /Bidder who shall in such event be liable to refund agents / agency commission payments to the buyer made by the Seller /Bidder along with interest at the rate of 2% per annum above LIBOR (London Inter Bank Offer Rate) (for foreign vendors) and Base Rate of SBI (State Bank of India) plus 2% (for Indian vendors). The Buyer will also have the right to recover any such amount from any contracts / Purchase order concluded earlier or later with Buyer.

6. Previous Transgression

6.1 The Bidder /Seller declares that no previous transgressions have occurred in the last three years from the date of signing of this Integrity Pact with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify Bidder's /Seller's exclusion from the tender process.

6.2 If the Bidder /Seller makes incorrect statement on this subject, Bidder /Seller can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason without any liability whatsoever on the Buyer.

7. Company Code of Conduct

Bidders /Sellers are also advised to have a company code of conduct (clearly rejecting the use of bribes and other unethical behaviour) and a compliance

program for the implementation of the code of conduct throughout the company.

8. Sanctions for Violation

8.1 If the Bidder(s) /Seller(s), before award or during execution has committed a transgression through a violation of Clause 5, above or in any other form such as to put his reliability or credibility in question, the Buyer is entitled to disqualify the Bidder(s) /Seller (s) from the tender process or take action as per the procedure mentioned herein below:

- (i) To disqualify the Bidder /Seller with the tender process and exclusion from future contracts.
- (ii) To debar the Bidder /Seller from entering into any bid from Buyer for a period of two years.
- (iii) To immediately cancel the contract, if already signed /awarded without any liability on the Buyer to compensate the Bidder /Seller for damages, if any. Subject to Clause 5, any lawful payment due to the Bidder/Seller for supplies effected till date of termination would be made in normal course.
- (iv) To encash EMD /Advance Bank Guarantees / Performance Bonds / Warranty Bonds, etc. which may have been furnished by the Bidder /Seller to the extent of the undelivered Stores and / or Services.

8.2 If the Buyer obtains Knowledge of conduct of Bidder /Seller or of an employee or representative or an associate of Bidder /Seller which constitutes corruption, or if the Buyer has substantive suspicion in this regard, the Buyer will inform to its Chief Vigilance Officer.

9. Compensation for Damages

9.1 If the Buyer has disqualified the Bidder(s) /Seller(s) from the tender process prior to the award according to Clause 8, the Buyer is entitled to demand and recover the damages equivalent to Earnest Money Deposit in case of open tendering.

9.2 If the Buyer has terminated the contract according to Clause 8, or if the Buyer is entitled to terminate the contract according to Clause 8, the Buyer shall be entitled to encash the advance bank guarantee and performance bond / warranty bond, if furnished by the Bidder / Seller, in order to recover the payments, already made by the Buyer for undelivered Stores and / or Services.

10. Price Fall Clause

The Bidder undertakes that it has not supplied /is not supplying same or similar product/systems or subsystems at a price lower than that offered in the present Bid in respect of any other Ministry /Department of the Government of India or PSU/PSBs during the currency of the contract and if it is found at any stage that same or similar product /Systems or Subsystems was supplied by the Bidder to any other Ministry /Department of the Government of India or a PSU or any Public Sector Bank at a lower price during the currency of the contract, then that very price will be applicable to the present case and the difference in the cost would

be refunded by the Bidder to the Buyer, if the contract has already been concluded.

11. Independent External Monitor(s)

- 11.1** The Buyer has appointed independent External Monitors for this Integrity Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors are given in RFP).
- 11.2** As soon as the integrity Pact is signed, the Buyer shall provide a copy thereof, along with a brief background of the case to the independent External Monitors.
- 11.3** The Bidder(s) / Seller(s) if they deem it necessary, May furnish any information as relevant to their bid to the Independent External Monitors.
- 11.4** If any complaint with regard to violation of the IP is received by the buyer in a procurement case, the buyer shall refer the complaint to the Independent External Monitors for their comments / enquiry.
- 11.5** If the Independent External Monitors need to peruse the records of the buyer in connection with the complaint sent to them by the buyer, the buyer shall make arrangement for such perusal of records by the independent External Monitors.
- 11.6** The report of enquiry, if any, made by the Independent External Monitors shall be submitted to MD & CEO, UCO Bank, Head Office at 10, Biplabi Trailokya Maharaj Sarani , Kolkata-700001 within 2 weeks, for a final and appropriate decision in the matter keeping in view the provision of this Integrity Pact.
- 11.7** The word "Monitor" would include both singular and plural.

12. Law and Place of Jurisdiction

This Integrity Pact is subject to Indian Laws, and exclusive Jurisdiction of Courts at Kolkata, India.

13. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provision of the extant law in force relating to any civil or criminal proceedings.

14. Integrity Pact Duration.

- 14.1** This Integrity Pact begins when both parties have legally signed it. It expires of order / finalization of contract.
- 14.2** If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this Integrity Pact as specified above, unless it is discharged / determined by MD & CEO, UCO Bank .
- 14.3** Should one or several provisions of this Integrity Pact turn out to be invalid, the reminder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

15 Other Provisions

- 15.1 Changes and supplements need to be made in writing. Side agreements have not been made.
- 15.2 The Bidders (s)/ Sellers (s) signing this IP shall not initiate any Legal action or approach any court of law during the examination of any allegations/complaint by IEM and until the IEM delivers its report.
- 15.3 In view of nature of this Integrity Pact, this Integrity Pact shall not be terminated by any party and will subsist throughout its stated period.
- 15.4 Nothing contained in this Integrity Pact shall be deemed to assure the bidder / Seller of any success or otherwise in the tendering process.
16. This Integrity Pact is signed with UCO Bank exclusively and hence shall not be treated as precedence for signing of IP with MoD or any other Organization.
17. In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.
18. The Parties here by sign this Integrity Pact.

BUYER

Signature:

Authorized Signatory

Department of IT

Place:

Date:

Witness:

(Name & Address)

BIDDER /SELLER

Signature:

Authorized Signatory (*)

Witness:

(Name & Address)



RFP Reference No.: DIT/BPR & BTDOA/3816/2018-19 dated: 31/12/2018

NON-DISCLOSURE AGREEMENT

(To be stamped in accordance with the stamp act)

This Non-Disclosure Agreement is entered into on thisday of..... 2018

BETWEEN

UCO Bank, a body corporate, constituted under the Banking Companies (Acquisition & Transfer of Undertakings) Act, 1970 as amended from time to time having its Head Office at No.10, BTM Sarani, Kolkata-700001 hereinafter referred to as "**the Bank**" (which expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its assigns, administrators and successors) **of the FIRST PART/ DISCLOSING PARTY**

AND

.....
..... (Which expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its assigns, administrator and successors) of the **SECOND PART/ RECEIVING PARTY**
(Each of Bank and the successful bidder is sometimes referred to herein as a "**Party**" and together as the "**Parties**").

WHEREAS the Successful bidder/Receiving Party is *inter alia* engaged for **Implementation of Indian Accounting standards (Ind-AS)** as per the terms and conditions specified in the RFP Ref No. **DIT/BPR & BTDOA/3816/2018-19 dated: 31/12/2018**. The Successful bidder/Receiving Party would be the single point of contact for this project.

WHEREAS Bank/Disclosing Party is *inter alia* engaged in the business of Banking; and

WHEREAS the Parties presently desire to discuss and/or consult with each other's business for the purposes of entering into Agreements for Implementation of Indian Accounting standards (Ind-AS).

WHEREAS the Parties recognize that each other's business involves specialized and proprietary knowledge, information, methods, processes, techniques and skills peculiar to their security and growth and that any disclosure of such methods, processes, skills, financial data, or other confidential and proprietary information would substantially injure a Party's business, impair a Party's investments and goodwill, and jeopardize a Party's relationship with a Party's clients and customers; and

WHEREAS in the course of consultation with respect to the potential business venture, the Parties anticipate disclosing to each other certain information of a

novel, proprietary, or confidential nature, and desire that such information be subject to all of the terms and conditions set forth herein below;

NOW THEREFORE the Parties hereto, in consideration of the promises and other good and valuable consideration, agree such information shall be treated as follows:

1. Confidential Information. “**Confidential Information**” shall mean and include any information which relates to the financial and/or business operations of each Party, including but not limited to, specifications, drawings, sketches, models, samples, reports, forecasts, current or historical data, computer programs or documentation and all other technical, financial or business data, information related to each Party's customers, products, processes, financial condition, employees, intellectual property, manufacturing techniques, experimental work, trade secrets.

2. Use of Confidential Information. The Successful bidder/Receiving Party agrees not to use the Bank/Disclosing Party's confidential Information for any purpose other than for the specific consultation regarding the potential business venture. Any other use of such Confidential Information by the Receiving Party shall be made only upon the prior written consent from an authorized representative of the Disclosing Party which wishes to disclose such information or pursuant to subsequent agreement between the Parties hereto.

3. Restrictions. Subject to the provisions of paragraph 4 below, the Party receiving Confidential Information (the “**Receiving Party**”) shall, for contract period of Three (3) years from the date of the last disclosure of Confidential Information made under this Agreement (except for personal customer data which shall remain confidential forever), use the same care and discretion to limit disclosure of such Confidential Information as it uses with similar confidential information of its own and shall not disclose, lecture upon, publish, copy, modify, divulge either directly or indirectly, use (except as permitted above under clause (2) or otherwise transfer the Confidential Information to any other person or entity, including taking reasonable degree of care and steps to:

(a) Restrict disclosure of Confidential Information solely to its concerned employees, agents, advisors, consultants, contractors and /or subcontractors with a need to know and not disclose such proprietary information to any other parties; and

(b) Advise all receiving Party's employees with access to the Confidential Information of the obligation to protect Confidential Information provided hereunder and obtain from agents, advisors, contractors and/or consultants an agreement to be so bound.

(c) Use the Confidential Information provided hereunder only for purposes directly related to the potential business venture.

4. Exclusions. The obligations imposed upon Receiving Party herein shall not apply to information, technical data or know how, whether or not designated as confidential, that:

(a) is already known to the Receiving Party at the time of the disclosure without an obligation of confidentiality;

(b) is or becomes publicly known through no unauthorized act of the Receiving Party;

(c) is rightfully received from a third Party without restriction and without breach of this Agreement;

(d) is independently developed by the Receiving Party without use of the other Party's Confidential Information and is so documented;

(e) is disclosed without similar restrictions to a third party by the Party owning the Confidential Information;

(f) is approved for release by written authorization of the Disclosing Party; or

(g) is required to be disclosed pursuant to any applicable laws or regulations or any order of a court or a governmental body; provided, however, that the Receiving Party shall first have given notice to the Disclosing Party and made a reasonable effort to obtain a protective order requiring that the Confidential Information and/or documents so disclosed be used only for the purposes for which the order was issued.

5. Return of Confidential Information. All Confidential Information and copies and extracts of it shall be promptly returned by the Receiving Party to the Disclosing Party at any time within thirty (30) days of receipt of a written request by the Disclosing Party for the return of such Confidential Information.

6. Ownership of Information. The Receiving Party agrees that all Confidential Information shall remain the exclusive property of the Disclosing Party and its affiliates, successors and assigns.

7. No License Granted. Nothing contained in this Agreement shall be construed as granting or conferring any rights by license or otherwise in any Confidential Information disclosed to the Receiving Party or to any information, discovery or improvement made, conceived, or acquired before or after the date of this

Agreement. No disclosure of any Confidential Information hereunder shall be construed by the Receiving Party to be a public disclosure of such Confidential Information for any purpose whatsoever.

8. Breach. In the event the Receiving Party discloses, disseminates or releases any Confidential Information received from the Disclosing Party, except as provided above, such disclosure, dissemination or release will be deemed a material breach of this Agreement and the Disclosing Party shall have the right to demand prompt return of all Confidential Information previously provided to the Receiving Party and in such case, the Receiving party shall be bound to return all information within 30 days from the date of such demand. The provisions of this paragraph are in addition to any other legal right or remedies, the Disclosing Party may have under the Law for the time being in force.

9. Arbitration and Equitable Relief.

(a) Arbitration. The Parties shall endeavor to settle any dispute/difference arising out of or relating to this Agreement through consultation and negotiation. In the event no settlement can be reached through such negotiation and consultation, the Parties agree that such disputes shall be referred to and finally resolved by arbitration under the provisions of the Arbitration and Conciliation Act, 1996 and the rules made thereunder from time to time. The arbitration shall be held in Kolkata. The language used in the arbitral proceedings shall be English. The arbitration proceeding shall be conducted by a panel of three arbitrators, each party shall appoint his own arbitrator and the two appointed arbitrators shall appoint the third arbitrator who shall act as presiding Arbitrator.

(b) Equitable Remedies. The Parties agree that in event of breach of any of the covenants contained in this Agreement due to negligence/fault/laches of the Receiving Party, the Disclosing party shall have, in addition to any other remedy, the right:

- i) To obtain an injunction from a court of competent jurisdiction restraining such breach or threatened breach; and
- ii) To specific performance of any such provisions of this Agreement. The Parties further agree that no bond or other shall be required in obtaining such equitable relief and the Parties hereby consent to the issuance of such injunction and to the ordering of specific performance.

(c) Legal Expenses: If any action and proceeding is brought for the enforcement of this Agreement, or because of an alleged or actual dispute, breach, default, or misrepresentation in connection with any of the provisions of this Agreement, each Party will bear its own expenses, including the attorney's fees and other costs incurred in such action.

(d) Indemnification: The Receiving Party shall indemnify the Bank and hold the Bank harmless against any loss caused to it as a result of the non-performance or improper performance of this Agreement by the Receiving Party, or its servants or agents to perform any aspect of its obligations forming part of the subject matter of this Agreement.

10. Term. This Agreement may be terminated by either Party giving sixty (60) days' prior written notice to the other Party; provided, however, the obligations to protect the Confidential Information in accordance with this Agreement shall survive for a period of three (3) years from the date of the last disclosure of Confidential Information made under this Agreement (except for personal customer data which shall remain confidential forever).

11. No Formal Business Obligations. This Agreement shall not constitute create, give effect to or otherwise imply a joint venture, pooling arrangement, partnership, or formal business organization of any kind, nor shall it constitute, create, give effect to, or otherwise imply an obligation or commitment on the part of either Party to submit a proposal or to perform a contract with the other Party or to refrain from entering into an agreement or negotiation with any other Party. Nothing herein shall be construed as providing for the sharing of profits or loss arising out of the efforts of either or both Parties. Neither Party will be liable for any of the costs associated with the other's efforts in connection with this Agreement. If the Parties hereto decide to enter into any licensing arrangement regarding any Confidential Information or present or future patent claims disclosed hereunder, it shall only be done on the basis of a separate written agreement between them.

12. General Provisions.

(a) Governing Law. This Agreement shall be governed by and construed in accordance with the laws of India.

(b) Severability. If one or more of the provisions in this Agreement is deemed void by law, then the remaining provisions shall remain valid and continue in full force and effect.

(c) Successors and Assigns. This Agreement will be binding upon the successors and/or assigns of the Parties, provided however that neither Party shall assign its rights or duties under this Agreement without the prior written consent of the other Party.

(d) Headings. All headings used herein are intended for reference purposes only and shall not affect the interpretation or validity of this Agreement.

(e) Entire Agreement. This Agreement constitutes the entire agreement and understanding of the Parties with respect to the subject matter of this Agreement. Any amendments or modifications of this Agreement shall be in writing and executed by a duly authorized representative of the Parties.

(f) Jurisdiction of Court: All disputes under this Non-Disclosure Agreement are subject to the jurisdiction of Courts of Kolkata only.

(g) Two original sets of Non-Disclosure Agreement are executed and retained by either parties, Bank and _____ (the selected successful bidder)

The Parties, by the signature of their authorized representatives appearing below, acknowledge that they have read and understood each and every term of this Agreement and agree to be bound by its terms and conditions.

For and on behalf of

.....

Signature: _____
Name: _____
Designation: _____
Date: _____

For and on behalf of

.....

(The selected successful bidder)

Signature: _____
Name: _____
Designation: _____
Date: _____