# The Executive Mechanism of Profit and Loss Sharing (PLS) Banking

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# **Abstract**

Despite of the interest of bankers for using Profit and Loss Sharing (PLS)<sup>3</sup> banking for the last decades, it has not been prevailed yet executively. The existence of different definitions of Riba, absence of appropriate operational, supervisory and managing mechanism on PLS are some reasons that haven't allowed this kind of banking to be practiced yet. Here, we are going to introduce a practical method for Profit and Loss Sharing (PLS) banking to overcome these problems. In this bank, the basis for determination of interest rate of loans is real economy return rate. The bank operates as an intermediary, who gets commission fee, collects saving resources and as an attorney or legal representative of depositor, allocates them to investment projects, and supervises the detailed operation of contractor. The yields of investment will transfer to resources owners who are depositors whatever profit or losses.

The PLS banking is a banking system with newly defined instruments of Mosharaka and Pazireh that not only stabilizes the financial and economic markets by preventing the banks, loanees /entrepreneurs and design, construction and contractor sectors in the economy from bankruptcy during crisis periods and volatile markets, but also makes the banks as an international firm which perform similar jobs as stock exchange markets for transactions of PLS products certificates through a secondary certificate market on virtual internet space. Depositors will earn more stabilized benefits too

In this designed method, a trustee (Amin) is a unit who supervise the contractor/entrepreneur operations on behalf of bank for being honesty in carrying out the project, controlling on executive operations along announced programs, resources allocation manner, and auditing financial statements.

PLS banking will use new financial instruments and innovations such as Mosharekeh (partnership) certificates for projects with specific ends and Pazireh (subscripted) certificates for endless (productive) projects. Establishing of secondary exchange market for transaction of certificates, and various insurance services will play important roles for activating and increasing the efficiency of newly established virtual markets.

All of activities in this method will be done on basis of compiled instructions. The framework and the organization of the PLS banking have been analyzed in forms of required committees, units and departments tailored for this type of Non-Usury Bank (NubankCo.) definition.

Keywords: PLS, Riba, Financial management, Islamic banking JEL :L86, L87, G21, G24

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#### Introduction

Many countries around the world have been doing huge tasks for fulfillment of Islamic banking. The low risk characteristic in this kind of banking has caused tendency to keep getting this kind of banking method even in many non-Muslim countries besides Muslim countries in order to get rid of risk like American, European and some Asian countries. Based on IMF reports, the average growth of the Islamic banking has been estimated about 10%-15% each year in the last decade and it will be forecasted in the next years with the same growth as before. Despite of the huge growth, Profit and Loss Sharing (PLS) has not been developed satisfactorily, and it usually has been mingled with usuric banking because of being so new in view of its performing and operational mechanism. Even its financial instruments as Profit and Loss Certificate or Investment Deposit Certificate had been introduced at the end of 1990s were forgotten later. Generally, the main reasons of unsuccessful in this kind of banking method come from the following causes:

- Different jurisprudential understanding of usury by different Islamic religious sects.
- Lack of supervisory and managing processes on loanee's financial and executive operations.

The absence of appropriate executive processes in operations, supervision and management sides consistent with profit and loss sharing requirements, and incompatibility of bank's organizational infrastructures are significant factors to unfulfilled ideal theories of Islamic banking. Because the banks have not been organized and established for supervising on details of investment operations as a supervisory organization. Essentially these organizations cannot tackle this kind of functioning. Therefore, practically the interest rate comes into PLS banking calculations by any definition or similarity. However, though the manifestation of Riba is not seen in it, but the interest rate would be recognized by scrutinizing the interior of the financial operations<sup>4</sup>. On the other hand, jurisprudential deductions of different Islamic sects are not similar, so this point caused the Islamic banks around the world generating many non-usuric products that the most of them are compatible with current usuric banking products and moved into usuric realm. Even in Iran, in spite of existing more external coordination and more unanimous than other countries the result was similar as well. However, the unanimity in early 1360s Hejri during approving non-usuric banking law has also been digressed thereafter. Therefore, first, the general solution for fulfillment of pure Islamic banking

<sup>4</sup> For instance see:

بیدآباد، بیژن و عبدالرضا هرسینی، تحلیل فقهی - اقتصادی ربا در وامهای مصرفی و سرمایه گذاری و کاستیهای فقه متداول در کشف
 احکام شارع. ارائه شده به همایش دوسالانه اقتصاد اسلامی، یژوهشکدهٔ اقتصاد، دانشگاه تربیت مدرس، ۱۳۸۲.

http://www.bidabad.com/doc/reba9.html

• بیدآباد، بیژن و عبدالرضا هرسینی، شرکت سهامی بانک غیرربوی و بازبینی ماهیت ربوی و غیرربوی عملیات بانکی متداول. مجموعه مقالات سومین همایش دوسالانهٔ اقتصاد اسلامی «نظریهٔ اقتصاد اسلامی و عملکرد اقتصاد ایران»، ۴-۳ دی ۱۳۸۲، پژوهشکدهٔ اقتصاد، دانشگاه تر ست مدرس، صفحات ۱۳۲-۱۹۳-۱۹۳، تهران . http://www.bidabad.com/doc/sherkat6.htm

- Bidabad, Bijan and Mahmoud Allahyarifard, "Implementing IT to fulfill the profit and loss sharing mechanism", Islamic Finance News (IFN) Journals, Vol. 3, Issue 3, 6<sup>th</sup> February 2006. <a href="http://www.bidabad.com/doc/summary-pls-it-1.html">http://www.bidabad.com/doc/summary-pls-it-1.html</a>
- Bidabad, Bijan and Mahmoud Allahyarifard, "IT role in fulfillment of profit and loss sharing", Proceeding of The 3<sup>rd</sup> International Islamic Banking and Finance Conference, Monash University, Kuala Lumpur, Malaysia, 16<sup>th</sup> and 17<sup>th</sup> November 2005. <a href="http://www.bidabad.com/doc/english-pls-5.pdf">http://www.bidabad.com/doc/english-pls-5.pdf</a>
- Bidabad, Bijan, Economic-juristic analysis of usury in consumption and investment loans and contemporary jurisprudence shortages in exploring legislator commandments. Proceeding of the 2<sup>nd</sup> International Islamic Banking Conference. Monash University of Malaysia. 9-10 September 2004. Reprinted in: National Interest, Journal of the Center for Strategic Research, Vol. 2, No. 1, winter 2006, pp. 72-90. Tehran, Iran. <a href="http://www.bidabad.com/doc/reba-english-4.html">http://www.bidabad.com/doc/reba-english-4.html</a>
- Bidabad, Bijan, Non-Usury Bank Corporation (NUBankCo), The Solution to Islamic banking, Proceeding of the 3<sup>rd</sup> International Islamic Banking and Finance Conference, Monash University, KL, Malaysia, 16-17 November, 2005. http://www.bidabad.com/doc/nubankco.html

requires that the subject will be analyzed and considered from the base.

The main purpose of this paper is to consider practical model for PLS banking and present appropriate method for performing real non-usury banking accompanying with necessary provisions for applying modern financial instrument that will be provided based on information technology. Actually, fulfillment of PLS banking will cause increasing stability of market transactions and more equal distribution of the revenues of investment activities and decreasing the investment risk.

On the other side, the proposed financial instrument (participation certificates and subscripted certificates) have ability to be bought and sold on the Internet through Internet Banking and anyone having a bank account with the approved ID information is able to buy and sell these financial assets around the world.

# The Experience of the PLS banking

The prohibition of Riba (Usury) and Profit and Loss Sharing (PLS) subject has long history and the subject returns to Torah and historical religious texts before Islam. The PLS was developed with Islam growth and nowadays have been paying attention as an important financial instrument and PLS is recognized as a modern successful financing instrument<sup>5</sup>. Mudarabah and Musharakah are two financial instruments based on PLS method that eliminate fixed rate of return (interest rate) from financial operations and participate financers into the profit and loss of investment activities.<sup>6</sup>

The various conceptual definitions have been presented on PLS by some Islamic economists and every one of them has touched it as the follows:

- "PLS is a contractual arrangement between two or more transacting parties, which allows them to pool their resources to invest in a project to share in profit and loss" (Humayon, Presley, 2000)<sup>7</sup>.
- "Under the PLS paradigm, the assets and liabilities of Islamic banks are integrated in the sense that borrowers share profits and losses with the banks, which in turn share profits and losses with the depositors" (Chong, Liu, 2007).
- "PLS leads to a more efficient allocation of capital because the return on capital and its allocation depend on the productivity and viability of the project" (Khan, 1986)<sup>9</sup>.

Chong Liu (2007) studies on Malaysia Islamic Banking in large Islamic banking of Malaysia of capital and insurance markets (World Bank, 2006)<sup>10</sup> show the following consequences:

• Despite of the PLS banking focuses on the Islamic banking, the Islamic banking of Malaysia has not been successful to fulfill PLS, and adoption of PLS paradigm has been much slower on the asset side than on liability side. Based on this study, on the asset side, only 5% of Islamic banks and financing is based on the PLS paradigm of Mudarabah (profit-sharing) and Musharakah (joint venture) financing. Islamic bank financing in Malaysia, in practice, is still based largely on non-PLS manners of financing that are not allowed in the Shariah (Islamic

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<sup>&</sup>lt;sup>5</sup> Rammal, H. G. (2003) 'Mudaraba in Islamic finance: principles and application', Business Journal for Entrepreneurs, Vol.4, pp.105–112. <a href="http://www.westga.edu/~bquest/2004/musharaka.htm">http://www.westga.edu/~bquest/2004/musharaka.htm</a>

<sup>&</sup>lt;sup>6</sup>Hussain Gulzar Rammal and Ralf Zurbruegg, "Awareness of Islamic banking products among Muslims: The case of Australia", Journal of Financial Services Marketing (2007) 12, 65–74. doi:10.1057/palgrave.fsm.4760060, <a href="http://www.palgrave-journals.com/fsm/journal/v12/n1/full/4760060a.html#bib24">http://www.palgrave-journals.com/fsm/journal/v12/n1/full/4760060a.html#bib24</a>

<sup>&</sup>lt;sup>7</sup> Humayon A. Dar and John R. Presley (2000), "Lack of Profit Loss Sharing in Islamic Banking: Management and Control Imbalances", Loughborough University, Department of Economics, Economic Research Paper No. 00/24, <a href="http://www.lut.ac.uk/departments/ec/Reasearchpapers/2000/00-24/erp00-24.pdf">http://www.lut.ac.uk/departments/ec/Reasearchpapers/2000/00-24/erp00-24.pdf</a>

<sup>&</sup>lt;sup>8</sup>Chong, B.S., Liu, M.H, 2007, "Islamic Banking: Interest-Free or Interest -Based", <a href="http://www.efmaefm.org/0EFMAMEETINGS/EFMA%20ANNUAL%20MEETINGS/2007-Vienna/Papers/0019.pdf">http://www.efmaefm.org/0EFMAMEETINGS/EFMA%20ANNUAL%20MEETINGS/2007-Vienna/Papers/0019.pdf</a>

<sup>&</sup>lt;sup>9</sup>Khan, M.S., 1986. Islamic interest-free banking. IMF Staff Papers 33, 1–27. Refer to the above address

<sup>&</sup>lt;sup>10</sup>World Bank, 2006. Country brief report: Malaysia.

- law) and obeys the spirit of the usury. On the liability side, however, Mudarabah (profitsharing) deposits, which account for 70% of total Islamic deposits, are more dominant.
- The rate of return in Malaysia PLS banking is less than the rate of return in conventional banking, so the rate of return of this kind of deposits depends on conventional banking rate of return but not vice versa.

The same problems are observed in Iran. Generally, PLS banking in Iran's Islamic banking did not develop because of the similar reasons. Focusing on Iran banks balance sheets items indicates that at each side of assets and liabilities, the proportion of Musharakah products in comparison with other products was at minimum before the compulsory decision for decreasing the interest rate by the government. In the other words, the Musharakah contractions were at minimum and the exchange contractions had maximum share on monetary resources. Furthermore, the rates of return of this kind of investments are determined on the basis of expected return (and not actual return). In the debit side, in a majority of cases, the depositors receive a return on the basis of Vekalat contraction with a specified rate determined by central bank of Iran. During the last decade by emerging private banks and increasing competition they used to pay 1% or 2% more than in part (promised) payments as final rate for settlement with the customers. Increasing government pressure on banks for decreasing exchange contraction return rates to keep the banks with positive profit markup in recent years caused the banks to go toward the Musharakah contractions. However, the fulfillment of the PLS banking in the assets side of Iran banks is facing with the following problems:

- Lack of specialist organizations and approaches for effective supervision on investment projects on basis of the Musharakah contractions.
- Lack of IT capabilities for applying integrated systems in the Islamic banking 11.
- Lack of design of new financial instruments, and lack of effective capital market for financing as PLS banking.

# **PLS Banking Architecture**

The foundation of the PLS banking bases on the keep getting benefit of economy real sector return for the whole participants of the economic activities. Therefore, the capital owners (shareholders), labor, services and technology suppliers and operators should get benefit proportionally on basis of their own portion and inputs. Fulfillment of this approach could be provided by the executive preparation of PLS banking. For designing PLS banking architecture, first of all each party or entity and its functions should be explained precisely. In addition to bank, depositor, entrepreneur (project handler and technical and executive knowledge owner) a new organizational pillars are required for practical structure of the PLS banking to be established to handle over special duties regarding to the specific nature of partnership activities. In the new architecture, the functions of each unit will be different from what they are in the conventional banking, though their names are called as same as conventional banking units.

**Bank:** The bank as an authorized agent on behalf of the depositors allocates the deposit resources of depositors to approved applicants of the credit facilities according to specific contracts and distribute the investment return as profit or loss consequences among the depositors, bank, and entrepreneur. The bank contractions with each party could be made on basis of commission or profit and loss partnership. The bank as depositor's attorney or representative is obliged to protect the depositor's rights and must apply her complete own specialized powers for preserving depositor benefits.

<u>Depositors</u>: who is the supplier of financial resources, based on investment Joaleh contracts uses her financial resources to purchase certificates of participation (Mosharekeh Cerificate) for participation in Finitude projects or buy certificates of subscription (Pazireh Certificate) for participation in endless

<sup>11</sup>Bidabad, Bijan and Mahmoud Allahyarifard, "Implementing IT to fulfill the profit and loss sharing mechanism", Islamic Finance News (IFN) Journals, Vol. 3, Issue 3, 6th February 2006. <a href="http://www.bidabad.com/doc/summary-pls-it-1.html">http://www.bidabad.com/doc/summary-pls-it-1.html</a>

projects; in specific project or specific package of projects or profit and loss participation in the PLS bank branch, to participate in the profit and loss of the project (or financial product) according to her share

**Entrepreneur:** is a legal entity that combines her own cash and non-liquid assets with the depositors' deposits as a joint owners (spooling) and bank intermediary to establish a joint venture activity.

<u>Trustee (Amin):</u> is a unit who takes over the responsibility of supervising on the PLS process on behalf of the bank about the quality of carrying out the project, controlling practical operations in compare with approved documented entrepreneur plan, benchmarking, entrepreneur resources allocation and quality of optimum resources allocations etc by applying key indices and verifying entrepreneur financial statements.

<u>Arbitration (Hakamiyat):</u> takes over resolving the disputes and conflicts among the bank, entrepreneur and depositors whose their financial relationship is based on PLS banking. In case of concordance of the parties, resolving of claim might be to a pre-approved third party judicial person/entity that is acceptable for parties in the conflict.

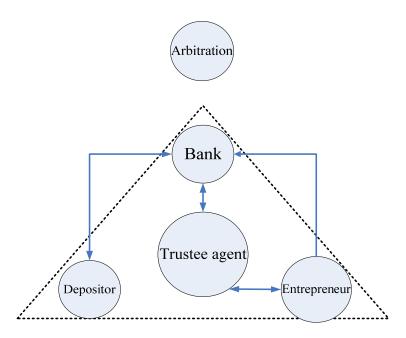
<u>Secondary Market:</u> The secondary market is suggested for simplifying, progressing and to make Mosharekeh (partnership) and Pazireh (subscripted) certificates more attractive. Bank creates this facility that Mosharekeh (partnership) and Pazireh (subscripted) certificates can be legally be sold and purchased in the secondary market on the internet.

<u>Consultants</u>: The consultants take over the role of economic, financial and technical assessments in PLS banking. Complexity of some projects in view of the applied technology, use of hiring specialists in the area is doubtlessly inevitable.

# **Interactions and relations in the PLS banking**

The relation among essential pillars of PLS banking is shown in chart 1. Based on this method apart from the bank is private or governmental, interest rate of bank's facility will be determined according to real investment return. Bank as fund intermediary gains wage or commission as attorney or agent of the depositor and the rest of investment return will be paid back to depositors as profit or loss consequences. Accordingly, bank according to participatory investment based on general or special attorney contracts invests deposits collectively based on diagnosis of the depositor (in product 1 and 2) or on her diagnosis (for product 3) in the desired projects/plan and distribute the investment outcomes among providing depositors.

**Chart 1: PLS Banking Pillars** 



In the first step of PLS operation, entrepreneur presents her proposal and required documents and feasibility study regarding economical, financial and technical aspects of his project/plan according to compiled instructions in PLS banking instruction set. The entrepreneur delivers all required official letters and documents to the bank according to related bank compiled instructions including budgeting, time schedule, size of necessary resources and resource allocation manner, qualification of carrying project, phasing, quality management, reporting, project completion manner, specification of completed project quality.... The bank in case of necessity when the project contains special, complex or high technology and the bank's specialists are not able to evaluate and make supervision on the project will outsource the project evaluation and supervision as well to other consultants for evaluation and/or supervision. The bank in case of positive evaluation on both entrepreneur and proposal will publicizes project to interested depositors for participating of depositors according to specified PLS banking products for financing the projects. The depositors would buy the Mosharekeh (partnership) certificates or the Pazireh (subscripted) certificates and donate deposits to the bank and the bank allocates monetary resources to the suggested projects by empowering the entrepreneur to start the project. Trustee (Amin) supervises and controls the operations of entrepreneur directly on behalf of the bank for whole the process. Obviously, reports of the trustee will be considered as main criterion for next payments to entrepreneur from the bank. After completing the project according to the related instructions and predefined PLS accounting formulas, the portion of profit or loss consequences and the bank commission/wage portion will be calculated by accounting and auditing department. The portions of entrepreneur, depositors and bank will be determined and are transferred to their accounts. In case of existence of any reports on the interrupt ion of operations of the project from the trustee side, the amount of delaying losses will be computed and determined according to the related instructions.

The PLS banking products as Mosharekeh (partnership) and Pazireh (subscripted) certificates are issued by PLS bank under the central bank general approved PLS regulations<sup>12</sup> and the certificates

<sup>&</sup>lt;sup>12</sup>- Central bank supervises on PLS banking operations as legislator of monetary regulations. Approval and confirmation of required regulations in this kind of banking method and general regulations for issuance of PLS

will be supplied to the depositors. The depositors could sell them at the secondary market before the due settlement time in case of revoking to cancel their depositing activity. They can do this via bank's electronic portal on internet or bank's transaction counters.

Insurance companies' collaborations to hedge the certificates have been observed in this kind of banking.

# Legal requirements

Lack of executive experience necessary for this type of banking cause new regulations and development of new guidelines. The first step should be in the form of necessary upstream regulations and rules to be issued by the central bank if there is a lack of regulations or guidelines within the banking industry for this kind of banking financial tools such as participation certificates and subscripted certificates for their legal protections.

### **Components**

Generally, the components of the PLS banking could be classified as following items:

- Products and Services
  - Finitude projects
    - ➤ Mosharekeh (partnership) certificates for profit and loss sharing on a special project.
    - Mosharekeh (partnership) certificates for profit and loss sharing on a projects portfolio.
    - Mosharekeh (partnership) certificates for profit and loss sharing on a PLS bank.
  - Endless projects
    - Pazireh (subscripted) certificates to shares
- Customer groups
  - Depositors
    - ➤ Real entity
    - ➤ Legal entity
  - Entrepreneurs
    - Legal entities (private, governmental)
- Financial instruments
  - Insurance agents
  - ❖ Portfolio management of Mosharekeh (partnership) and Pazireh (subscripted) certificates.
    - ➤ Minimum risk and return
    - ➤ Middle risk and return
    - ➤ High risk and return
  - Certificates insurance with avoidance from
    - Moral hazard
    - ➤ Adverse selection
    - > Asymmetric information
  - **\*** Executive insurance
    - ➤ Responsibility insurance
    - ➤ Project's place insurance
- Mechanism and specification of Mosharekeh/Pazireh IT based transactional system
  - Information system
  - ❖ Buying/ selling of Mosharekeh/Pazireh certificates as remote
  - **❖** 24x7

banking products might be allowed by central bank or other monetary authorities depending on different countries legal systems.

- Multi languages
- Multi currencies
- Integrated
- High secured
- Privacy
- Contractions
  - Depositor
    - Jualah
    - Wakalah
    - > Solh
  - Entrepreneur
    - Mosharekeh
  - Consultant (assessment, trusteeship)
    - > Jualah
- Office infrastructures, organization
  - PLS Strategy committee
  - ❖ Interpretation and revising of PLS regulations and process specialist group
  - PLS office including following department
    - > Legal department
    - > Project evaluation including following specialist:
      - o Economic
      - Financial
      - o Technical and engineering (Back office)
    - ➤ Auditing department
    - > Financial engineering management
    - Trustee (Amin)
      - o Financial
      - o Technical and engineering
      - o Legal
    - > PLS branch (front office)
    - ➤ Information (consulting services)
    - Cashier
    - ➤ Mosharekeh/Pazireh certificates transactions
    - Others
- Typical contracs including:
  - Contraction with entrepreneur
  - Contraction with depositors
  - Contraction with trustee (Amin)
  - Evaluation contraction
- Instructions
  - Documents and required papers
  - Entrepreneur ability reaching
  - Justification reports
  - ❖ Accounting and auditing
  - Guarantees, collaterals and inputs
  - Banks returns
  - General condition of contraction
  - Set out the contraction
  - Standards and requirements for supervision
  - ❖ Trustee (Amin) competency
  - Entrepreneur reporting
  - ❖ Mosharekeh/Pazireh certificates transactions
  - Mosharekeh/Pazireh certificates swapping
  - Time schedule variation

- ❖ New partnership
- Depositor cancellation
- Settlement
- **❖** Arbitration
- Force major

# **Instructions**

For fulfillment of the PLS banking, operational methods will be performed by the following compiled instructions:

- 1. Guarantees, collaterals and inputs: Depend on the entrepreneur classification (green and yellow groups) the collateral will be taken in different types of collaterals and guarantees for good performance. The input portion of entrepreneur including cash or non-cash in each category is determined by this instruction.
- 2. Required documents for project evaluation: All the required financial and non-financial documents for project evaluation and legal and performance authorizations are determined by this instruction.
- **3. Entrepreneur reportings:** The reports to the bank, trustee, inspector or other controlling authorities are determined in this instruction.
- **4. Feasibility reports:** The main purpose of this instruction is to organize and standardize the economical, technical and financial feasibility studies of the project till the affiliated departments can evaluate the mentioned documents according to the specified framework.
- **5. Arbitration (Hakam):** The condition of referring conflicts among parties (depositors and entrepreneur with bank) to a pre-accepted third person/s is determined in this instruction.
- **6. Force major:** Coming up unexpected events for beneficiaries of the PLS banking are to be handled by this instruction.
- 7. Instruction for revocation of depositors to cancel her deposit before due date: Revocation of depositors to cancel her deposit for not carrying on the investment and the settlement manner for the cancelation by selling Mosharekeh and Pazireh certificates is specified in this instruction.
- **8.** Time schedule and expense deviations: In case of coming up deviations, either in time schedules or expenses plan of the projects coming from either fault or delinquency of the entrepreneur or affect of inflation in calculation of costs of entrepreneur and also the manner of calculation of share of beneficiaries in these circumstances are specified in this instruction.
- **9. New partnership:** In case of extended financing of PLS projects, issuance of new Mosharekeh and Pazireh certificates would be according to this instruction.
- **10. To settle with entrepreneur:** The settlement terms and manner with entrepreneur is specified in this instruction.
- **11. Pazireh certificates swapping:** To change Pazireh certificates to shares and the related processes and valuation of shares are specified in this instruction.
- **12. Mosharekeh and Pazireh certificates transactions:** The Mosharekeh and Pazireh certificates transactions on internet and establishment of secondary market and market management are specified in this instruction.
- 13. The entrepreneur ability: Including the points regarding to technical and financial capability and qualification classification of the entrepreneurs based on the different projects, collaterals types and guarantees for good performance, fulfillment of obligations, the share of entrepreneur, entrepreneur partnership inputs and entrepreneur classification to three categories of green, yellow and read.
- **14. Trustee (Amin) competency:** specification and competency of trustee as supervisor agent to supervise the entrepreneur performance as real persons or legal entities are described in this instruction.
- **15. The standards and supervision obligations:** This instruction takes over the whole obligations and required standards for supervisory processes.

- **16.** General conditions of contraction: To regularize proper contractions and making contents of contracts obligatory and legally mandatory for each party in the PLS banking this instruction is to be used.
- **17. Contracts compilation:** Typical compiled contracts of the bank with entrepreneur, depositors, trustee (Amin) and consultants of the project have been brought in this instruction for each type of PLS banking products including finitude and endless projects.
- **18. Accounting and auditing:** The requirements and obligations of auditor, auditing process, financial statements of entrepreneur's company, and documents verifying to confirm the accuracy of the operations of entrepreneur are cited in this instruction.
- **19. Bank gains:** Gains of the bank in all processes of primary and supplementary evaluations, supervisory services, trustee (Amin), financial engineering, auditing and the other services and also the bank's wages and commissions have been specified in this instruction.

# IT infrastructures

Based on the previous researches<sup>13</sup>, one of the important reasons to not prevailing PLS banking is lack of integrated systems, which able the bank to connect whole producers of information resources together and every transaction will be traced and supervised through them. Therefore, for achieving to the ideal PLS condition it is necessary to integrate different systems including Enterprise Resource Planning (ERP), and Islamic core banking containing other modules and subsystems like Customer Relationship Management (CRM), Supply Chain Management (SCM), Manufacture Executive System (MES), Human Resource Management (HRM), Business Process Reengineering (BPR), Workflow management (WFM). But this solution is for as an ideal PLS. Since integrated core banking necessities for this type of PLS banking is not available yet so it is not possible to apply this integrated PLS banking as full automatic banking and leave this idea for the future extension of PLS.

The applied technology in this phase is web based secondary market portal for Mosharekeh and Pazireh certificates, which it will be applicable through the internet connection and can be connected to the personal accounts in the bank. The individuals or the certificate's owners become able to deal these kinds of digital papers (certificates) through the internet based communication networks. Therefore, these certificates as an asset can be negotiated and traded over the world on the internet. Generally, the PLS banking products specifications have been shown in table 1. The attractiveness of the products will be increased through the internet-based transactions on virtual secondary market on the internet.

#### **PLS Banking Products and Services**

According to table 1 the designed products and services in the PLS banking are separated in two categories of finitude and endless projects. The bank will get commission for supplying some financial management services such as making confidence among the depositors, supervision, financial engineering, project management and also transparency in the whole PLS products to depositors.

- The finitude projects partnership: In this category of the PLS banking products, the investment return will be allocated and settled among the depositors, entrepreneur and bank at the end of the fiscal year (for product type 3) or after the ending time when the project will be finished and sold depending on type of project. The products used can be a special project or a basket of projects. The applied financial instruments in these products are Mosharekeh certificate so that after depositing of depositor in a project immediately Mosharekeh certificate will be delivered to the depositors.
- The endless projects partnership: According to chart 2 the bank will subscribe the shares in form of issuing Pazireh (subscripted) certificates for financing an endless project. The Pazireh (subscripted) certificate is similar to Mosharekeh (partnership products) certificate and can be transacted at the secondary certificate market. After ending the construction period

<sup>13</sup> Bidabad, Bijan and Mahmoud Allahyarifard, "Implementing IT to fulfill the profit and loss sharing mechanism", Islamic Finance News (IFN) Journals, Vol. 3, Issue 3, 6<sup>th</sup> February 2006. <a href="http://www.bidabad.com/doc/summary-pls-it-1.html">http://www.bidabad.com/doc/summary-pls-it-1.html</a>

and when the project is ready to start the exploitation period, the Pazireh certificates will be transformed into the shares of the corporation. The whole subscriptions process, exchanging Pazireh certificates to the share papers will be performed under the bank supervision and decisively the project ownership will be assigned to the depositors through changing their Pazireh certificates to the shares and after this transformation, the depositors will become company shareholders.

Bank might do the whole transforming process through changing Pazireh certificates owners to shareholders by establishing a new company (and not the entrepreneur constructing company) at the end of construction period and at the beginning of exploitation period. Bank might sale the shares of the Pazireh certificates owners in bidding and after deducting the entrepreneur and the bank portions pays cash to depositors.

### The Mosharekeh and Pazireh Certificates

The two important financial instruments of PLS banking are The Mosharekeh and Pazireh Certificates.

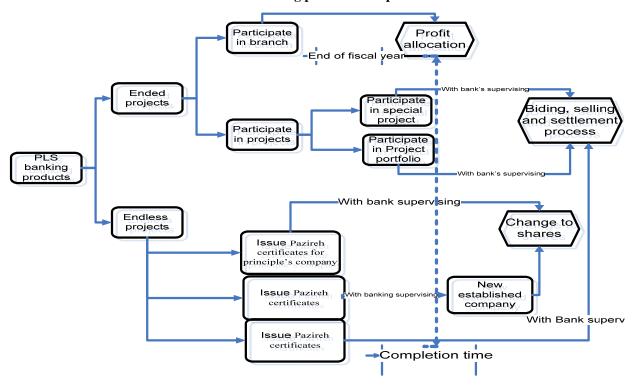
- Mosharekeh certificate is an anonymous (digital) paper that is issued with specified nominal price for specific duration (performance duration of the finitude investment project) by the branch of the PLS bank. The owners of the papers participates on investment return in proportion to nominal price and duration of being as partner in the project and the bank will earns commission in lieu of supplying capital management services to depositors that are offered by depositors for investing their money resources in the PLS banking products.
- Pazireh (subscripted) certificates is an anonymous (digital) paper is issued with specified
  nominal price and durations (performance duration of endless investment project up to the
  end of construction period) by the branch of the PLS bank. The owners of these papers will be
  owner of the company of the project in form of shareholders in proportion to their nominal
  price of their certificate and duration of partnership.

According to table 1, anonymity, transformability to others, transactablity in virtual secondary certificate market and in stock exchange markets, commission return of transactions for the bank (0.0005 from each transacted parties – saler and buyer), demand and supply (market mechanism) based price determination on internet secondary market, and final settlement with the final authenticated certificate owner are some of the attractive specifications for both Mosharekeh and Pazireh certificates. The main difference between Mosharekeh and Pazireh certificates is in finitude and endless nature of the projects. In case of Mosharekeh certificate, the settlement process will be done at the end of construction period by bidding and selling project. In case of issuing Mosharekeh certificate for partnership in the PLS branch's profit (product type 3), the settlement process will be done at the end of fiscal year when the PLS branch's financial statements are finalized. In the case of Pazireh certificate, the bank undertakes to change Pazireh certificates owners to shareholders of the investment project and there is no responsibility for PLS bank to pay back the depositors and entrepreneur and responsibility of the bank will be finished after completing the above transformation. The process is shown in the chart 2.

Table 2: The PLS banking product and services framework

Products	Settlement time	Type of	Financial hedging	Mosharekeh and Pazireh certificates
	Profit/loss	contracts		specifications
Special project (finitude)	Completion of construction and selling the constructed project	- Jualah Wakalah Solh	Insurance of some portion of the value of the value of the projects can be arbitrarily applied  Other insurance instruments as responsibility insurance, engineering insurance and accident insurance have been defined in different related contracts to hedge the project execution	<ul> <li>Anonymity</li> <li>Transformable to others</li> <li>Transactability in virtual Internet-based secondary certificate market</li> </ul>
Basket of Projects (finitude)	Completion of construction and selling the constructed project			<ul> <li>and on the bank counter and stock exchange in a mechanized IT-based state.</li> <li>Earning commission from the both transactor parties per transaction.</li> <li>Valuation of certificates based on demand and supply mechanism.</li> <li>Transformation possibility of Pazireh certificates to shares in endless projects.</li> <li>Decisive final settlement with the lastl Mosharekeh certificates owners.</li> <li>Customer groups can be private or governmental, real persons or legal entities.</li> </ul>
Participation in PLS branch's Profit and loss (finitude)	At the end of fiscal year			
Endless projects	Completion of construction period and at the beginning of exploitation period			

Chart 2: PLS banking products and process



# **PLS Banking Customers Groups**

According to this banking framework, the customers can be categorized into two groups of depositors and entrepreneurs of investments projects as follows:

✓ Depositors: Depositors in PLS banking could be real person or legal entity and either private

- or governmental.
- ✓ Entrepreneurs: Entrepreneurs in PLS banking necessarily must be a legal entity/corporation either private or governmental. Legal entity specification for the entrepreneurs is necessary for auditing financial documents and statements that causes reliable and more transparent calculation for profit or loss calculations.

# **Islamic Contracts In PLS Banking**

Bank on basis of Jualah contraction, arranges a formal agreement with depositors so that according to depositor opinion provide partnership in entrepreneur's investment. In other side, bank based on Mosharekeh contract (based on Civil Participation contraction) will be entered into interaction with entrepreneur. By this contract, the bank will do as an intermediate entity and gains Haqh-aljualah (wage) from depositors and mobilize financial (deposit) resources entrepreneur. Finally, investment returns portion for depositor will be transferred to the resources suppliers (depositors) based on the agreements of the contract. The Solh (peace pact) contract is needful beside of the Jualah contraction as necessary for simplifying Mosharekeh and Pazireh certificates transactions on the internet-based secondary certificate market for depositor approval and her signature.

# **PLS Banking Instruments**

In PLS banking, the new financial instruments and innovations as Mosharekeh and Pazireh certificates are applied. By PLS banking, bank increases the efficiency of monetary and financial markets and by issuing Mosharekeh and Pazireh certificates and establishing secondary certificate market and designing Mosharekeh certificate basket/portfolio will play an important role in mobilization of resources. Performing the mentioned specifications of PLS will facilitate domestic and international customers to enter the PLS based depositing and investment simply.

The other complement financial instruments will be separated into Mosharekeh certificate basket/portfolio, issuing and applying insurance products for covering probable risks. Relation between risk and return in investment and financial activities and covering the whole customer groups' requirements in view of the risk-acceptability, the classification of the PLS banking products is important. Therefore, for decreasing risk in the PLS banking products, the certificates can be classified in following portfolios:

- Mosharekeh certificate portfolio with low risk and low rate of return
- Mosharekeh certificate portfolio with a medium risk and medium rate of return
- Mosharekeh certificate portfolio with high risk and high rate of return

For insurance encouraging and supporting of capital owners and decreasing different risks among them as moral hazard<sup>14</sup>, adverse selection<sup>15</sup> and asymmetric information<sup>16</sup> the bank can establish an organization to provide necessary supports. For avoidance from falling in moral hazard in side of the capital owners it is required that a portion of customer's principle of capital be covered by insurance coverage. The coverage may be around 50% of the deposited capital. This insurance is arbitrary and might be supplied by bank or other insurance corporations and purchased by depositors

### **Organization of PLS Banking**

The organizational structure of the PLS banking with paying attention to the above definitions might be designed in form of PLS banking strategy committee, PLS banking specialist group, PLS

<sup>&</sup>lt;sup>14</sup>Moral hazard in insurance market indicates some cases that insured changes his or her behavior after buying insurance policy and with this imagination that instead of supplying losses try to announce more losses or change his/her behavior of paying attention to keep insured property. For example, some of the insured after buying the insurance policy would never care on insured property and this will increase the risk of insured properties.

<sup>&</sup>lt;sup>15</sup>Adverse selection is a market process that is caused by undesirable results due to asymmetric information between sellers and buyers.

<sup>&</sup>lt;sup>16</sup>Asymmetric information means one party has got more information than the other in their business.

department, legal department, project evaluation department, auditing department, financial engineering management department, trustee (Amin) and PLS branch in which the latter is designed to have information, consulting services and cashier sections.

### **Summary and Conclusions**

As long as the PLS bank as a financial intermediary does not operates as conventional banks and receives wages from depositors for financial services she provides, will not meet bankruptcy in crisis.

As the rate of benefit of depositors is dependent to real rate of return of the economy, depositors benefit increases through PLS banking.

In period of crisis, the entrepreneurs of investment projects are more protected from bankruptcy; consulting, contractors and constructors industry are not subject to serious financial defeats with PLS banking.

The financial and economic markets meet stability through PLS banking.

Financial innovations of mosharaka and Pazireh certificates make the bank act as an international portal performing similar jobs to a stock exchange market for transaction of PLS products certificates that can easily allocate and reroute resources to investments.

In the PLS banking apart from the bank is either governmental or private, the interest rate is determined by real sector and bank as financial intermediary gets commission as an attorney or agent of depositors and will transfer the remaining investment return either profit or loss consequences to depositors. Bank would invest collected deposits into the finitude or endless projects based on Mosharekeh Contraction as either general or special attorney according to the depositor's desire (for type 1 and 2 products) or bank own choice (for type 3 products) and finally distribute the investment return among the depositors. In this regard, the bank after deducting commission as being attorney or agent will assign the whole benefits come from investment to owners of monetary resources and do perform her own intermediary function according to compiled instructions.

First, the entrepreneur refers to the PLS branches and offers her proposal to bank for doing a joint venture. She will be announced the participation conditions and regulations through information portal designed for PLS banking. The related evaluation fee will be taken from the customers and projects specifications including proposal, economic, financial and technical feasibility documents of the project will be taken from the entrepreneur.

Bank after evaluation of the proposal will introduce it to depositors. Depositors by purchasing Mosharekeh/Pazireh certificates allow the bank to use their deposits in participation into the approved project.

In the PLS a trustee (Amin) unit will do supervision on entrepreneur operations on behalf of the bank for watching good performing of the project, executive operations controlling in comparison with announced programs, resources allocation manner and optimized allocation of resources by using key indices and considering the financial statements are duties of Amin..

In the PLS banking, the bank will used new financial instruments and innovations of Mosharekeh certificates for finitude projects and Pazireh certificates for endless projects. Secondary certificate market in cyber space for certificates transactions is established by bank. The whole operations will be done according to the compiled instructions. The PLS banking organization was designed according to the above definition in form of committees, units and departments.

For applying this kind of banking method, it might be performed by establishing a branch inside of the conventional bank. In this case, the whole activities of the PLS banking shall be done alongside to the other conventional branch activities but with separated financial, accounting, organizational and office operations for preserving legal aspects of depositor's rights.

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