**PROJECT PROPOSAL**



**Project Title** **-:** E-Recovery System

**Project Description** **-:**E-Recovery system is a web based paperless system and it is provided facility to sent recoveries through the system with the authorization of relevant officer.

**Team** **-:** LCdr (IT) MWD Karunadasa,NRT 3160

**Introduction**

1. Recoveries are sent by various authorities to Pay & Pension Department for deduct from the Naval personnel’s Salary. Most of the recoveries come via email in excel format and few of them come as hard copy. Recoveries can be divide into two categories as per their information.
2. Recovery send with amount.-: These kinds of recoveries are optional and received with officer details and recovery amount.
3. Recovery send with data-: This kind of recoveries’ amount must calculate by the subject clerks and it received with starting date/ Nof Days.
4. The process of recovery, from receiving to produce xml file is done by manually and further observed following bottlenecks in the existing manual system.
5. Incorrect official no found in the received recovery lists.
6. Subject clerk has to convert amount to number format and ensure no any thousand separators.
7. Subject clerks have to modify every recovery by including relevant Pay Code and Base Code.
8. Same recovery item received from different base are required amalgamate.
9. Relevant authorities should be informed monthly about the recovered amount by the letter.
10. Only two subject’s clerks are in the recovery subject and they have to work with all the relevant naval bases and institutes regarding the recoveries.
11. Final recovery list made by amalgamating all recoveries list and it also done by manually.
12. Have to depend on the two subject clerks to get final recovery list.
13. This project is proposed as a solution for above problems as well as it will provide advance assistance to relevant authorities and Pay & Pension Department.
14. Recoveries which can be covered from the proposed system is as follows

|  |  |  |  |
| --- | --- | --- | --- |
| **WARD ROOM RECOVERY** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | SAGARA | 710 |
| 2 | VIJAYABA | 728 |
| 3 | SAYURA | 732 |
| 4 | WELUSUMANA | 739 |
| 5 | GOTAIMBARA | 742 |
| 6 | WNA | 782 |
| 7 | NHQ | 783 |
| 8 | NHQ | 783A |
| 9 | ELARA | 784 |
| 10 | NAVAL COMPLEX POONEWA | 793 |
| 11 | KANCHADEWA | 794 |
| 12 | UTHTHARA | 795 |
| 13 | SHILPA | 800 |
| 14 | VIDURA | 813 |
| 15 | WALAGAMBA | 824 |
| 16 | AGBO | 833 |
| 17 | DAKSHINA | 851 |
| 18 | RUHUNA | 855 |
| 19 | VIJAYA | 856 |
| 20 | GEMUNU | 857 |
| 21 | ENA | 858 |
| 22 | NIPUNA | 859 |
| 23 | THERAPUTHTHA | 873 |
| 24 | LANKA | 874 |
| 25 | LANKAPATUNA | 900 |
| 26 | GAJABA | 906 |
| 27 | WASABHA | 910 |
| 28 | NCC | 919 |
| 29 | KDU | 942 |
| 30 | PARAKUMBA | 949 |
| 31 | SAYURALA | 959 |
| 32 | THAMBAPANNI | 968 |
| 33 | RANWELI | 970 |
| 34 | MAHAWELI | 973 |
| 35 | PUSSADEWA | 974 |
| 36 | GOKANNA | 979 |
| 37 | BARANA | 984 |
| 38 | MAHANAGA | 1201 |
| 39 | BUWANEKA | 1213 |
| 40 | KASHYAPA | 1214 |
| 41 | GOTABHAYA | 1219 |
| 42 | ROHANA | 1224 |
| 43 | KELANI | 1231 |
| 44 | WARUNA | 1234 |
| 45 | SINDURALA | 1236 |
| 46 | KAWANTISSA | 1238 |
| 47 | DEEGAYU | 1245 |
| 48 | VETHTHALAKENY | 1248 |
| 49 | CADET MESS KDU | 1249 |
| 50 | GAJABAHU | 1250 |
| 51 | NDEP MAHO | 1251 |
| 52 | ND KIRINDIOYA | 1253 |
| 53 | PARAKRAMABAHU | 1255 |
| 54 | RABS HQ | 1256 |
| 55 | SURAKSHA | 1258 |

|  |  |  |
| --- | --- | --- |
| **SENIOR SAILOR'S MESS RECOVERY** | |  |
|  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | GOTIAMBARA | 702 |
| 2 | DAKSHINA | 720 |
| 3 | NIPUNA | 721 |
| 4 | SBS HQ | 726 |
| 5 | AKUREGODA | 727 |
| 6 | WELUSUMANA | 743 |
| 7 | LANKA | 744 |
| 8 | THAMMANNA | 748 |
| 9 | WALAGAMBA | 766 |
| 10 | PARAKRAMA | 777 |
| 11 | RANGALLA | 778 |
| 12 | GEMUNU | 779 |
| 13 | TISSA | 780 |
| 14 | ELARA | 781 |
| 15 | KANCHADEWA | 789 |
| 16 | PANDUKABAYA | 796 |
| 17 | UTHTHARA | 797 |
| 18 | VIJAYABA | 825 |
| 19 | RUHUNA | 853 |
| 20 | VIJAYA | 854 |
| 21 | NMA | 863 |
| 22 | LANKAPATUNA | 864 |
| 23 | WARUNA | 866 |
| 24 | SHILPA | 890 |
| 25 | GAJABA | 907 |
| 26 | AGBO | 935 |
| 27 | PARAKUMBA | 950 |
| 28 | THERAPUTHTHA | 960 |
| 29 | THAMBAPANNI | 967 |
| 30 | RANWELI | 971 |
| 31 | MAHAWELI | 975 |
| 32 | PUSSADEWA | 976 |
| 33 | BARANA | 985 |
| 34 | GOKANNA | 987 |
| 35 | MAHANAGA | 1202 |
| 36 | BUWANEKA | 1209 |
| 37 | KASHYAPA | 1215 |
| 38 | GOTABHAYA | 1218 |
| 39 | WASABA | 1222 |
| 40 | ROHANA | 1225 |
| 41 | VIDURA | 1228 |
| 42 | KELANI | 1230 |
| 43 | KAWANTISSA | 1239 |
| 44 | DEEGAYU | 1242 |
| 45 | VETHTHALAKENI | 1244 |
| 46 | N DEP MAHO | 1252 |
| 47 | ND KIRINDIOYA | 1254 |
| 48 | RABS HQ | 1257 |
|  |  |  |
| **TELEPHONE RECOVERY - 2019** | |  |
|  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | THERAPUTHTHA | 703 |
| 2 | VIDURA | 709 |
| 3 | SURANIMALA | 711 |
| 4 | ELARA | 754 |
| 5 | UTHTHARA | 755 |
| 6 | AGBO | 756 |
| 7 | KANCHADEWA | 757 |
| 8 | WALAGAMBA | 758 |
| 9 | GOTAIMBARA | 762 |
| 10 | WELUSUMANA | 764 |
| 11 | PANDUKABAYA | 765 |
| 12 | NIPUNA | 769 |
| 13 | DAKSHINA | 770 |
| 14 | ENA | 771 |
| 15 | NHQ | 772 |
| 16 | MAHASEN | 801 |
| 17 | RANGALLA | 802 |
| 18 | VIJAYA | 808 |
| 19 | GAJABA | 810 |
| 20 | THAMMANNA | 811 |
| 21 | GOKANNA | 812 |
| 22 | WASABA | 821 |
| 23 | LANKAPATUNA | 829 |
| 24 | KASHYAPA | 840 |
| 25 | TISSA | 879 |
| 26 | SHILPA | 892 |
| 27 | PARAKUMBA | 897 |
| 28 | RUHUNA | 914 |
| 29 | NHQ - BUDGET | 945 |
| 30 | RABS HQ | 952 |
| 31 | PUSSADEWA | 953 |
| 32 | BARANA | 954 |
| 33 | MURUNKAN | 955 |
| 34 | WARUNA | 956 |
| 35 | IPPOLOGAMA | 957 |
| 36 | THAMBAPANNI | 958 |
| 37 | RANWELI | 962 |
| 38 | SBS HQ | 965 |
| 39 | SHAKTHI | 966 |
| 40 | GEMUNU | 969 |
| 41 | SAYURALA | 972 |
| 42 | MIHINTHALE | 977 |
| 43 | SHIKSHA | 990 |
| 44 | MAHANAGA | 1203 |
| 45 | BUWANEKA | 1204 |
| 46 | KELANI / AKUREGODA | 1208 |
| 47 | GOTABHAYA | 1220 |
| 48 | A 523 | 1226 |
| 49 | THAKSHILA | 1227 |
| 50 | VIJAYABA | 1229 |
| 51 | MAHAWELI | 1232 |
| 52 | DEEGAYU | 1243 |
|  |  |  |
| **ACCOUNT BRANCH RECOVERY** | |  |
|  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | TSUNAMI/FLOOD LOAN | 734 |
| 2 | VEHICLE LOAN | 740 |
| 3 | VEHICLE LOAN INTEREST | 741 |
| 4 | HOUSING / PROPERTY LOAN INT | 751 |
| 5 | DISTRESS LOAN | 752 |
| 6 | DISTRESS LOAN INTEREST | 753 |
| 7 | DISTRESS LOAN INTEREST | 753A |
| 8 | 4% GOVERNMENT LOAN | 927 |
| 9 | HOUSING / PROPERTY LOAN | 937 |
| 10 | 4% GOVERNMENT LOAN | 927A |
| 11 | BOOK LOAN INTEREST | 750 |
| 12 | BOOK LOAN | 759 |
| 13 | FESTIVAL LOAN DEDUCTION (APRIL) | 888 |
| 14 | FESTIVAL LOAN DEDUCTION (DECEMBER) | 889 |
|  |  |  |
| **WELFARE RECOVERY** | |  |
|  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | LIFE INSURANCE | 724 |
| 2 | HOUSING LOAN | 773 |
| 3 | DISTRESS LOAN | 877 |
| 4 | CONFINEMENT LOAN | 878 |
| 5 | SPECIAL WELFARE LOAN GUARANTOR | 885 |
| 6 | WELFARE LOAN | 893 |
| 7 | RANAVIRUSEVA LOAN | 912 |
| 8 | RANAVIRUSEVA MEDICAL LOAN | 912A |
| 9 | WELFARE LOAN GUARANTOR | 901 |
| 10 | CONFINEMENT LOAN GUARANTOR | 916 |
| 11 | HAITY LOAN | 918 |
| 12 | BSC LOAN | 920 |
| 13 | MSC LOAN | 921 |
| 14 | DISTRESS LOAN GUARANTOR | 922 |
| 15 | SPECIAL WELFARE LOAN | 923 |
| 16 | DEFENCE SERVICE STAFF COLL LOAN | 1221 |
| 17 | BOOK & PUBLICATION (MIHIN LANKA) | 737 |
| 18 | SANDA HIRU SEYA | 746 |
| 19 | SANDA HIRU SEYA (RECOVERY) | 746A |
| 20 | SUWADEHENA/CEYLINCO INSURANCE | 775 |
| 21 | ABANS SHOWROOM | 817 |
| 22 | DONATION | 818 |
| 23 | FAMILY GET-TOGETHER | 827 |
| 24 | MERCANTI | 838 |
| 25 | WELFARE TRANSPORT CHARGE - BUS | 839 |
| 26 | SAVIBALA SAVINGS | 843 |
| 27 | WELFARE FUND - OFFICER | 894 |
| 28 | WELFARE FUND - SAILOR | 895 |
| 29 | WELFARE FUND (RECOVERY) | 895A |
| 30 | GORAKAGAHAWATTA ELE BILL | 940 |
| 31 | KIA / MIA DONATION | 961 |
| 32 | IPPOLOGAMA HOUSING PROJECT | 997 |
| 33 | SL AIDE FUND | 1210 |
| 34 | SL AIDE FUND (RECOVERY) | 788 |
| 35 | WELFARE EASSY PAYMENT | 725 |
| 36 | 814 |
| 37 | 815 |
| 38 | 881 |
| 39 | 891 |
| 40 | 934 |
| 41 | 941 |
| 42 | 944 |
| 43 | 948 |
| 44 | 991 |
| 45 | 1200 |
| 46 | 1206 |
| 47 | 1211 |
| 48 | 1217 |
|  |  |  |  |
| **NAVAL PUBLICATION** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | DIARY | 735 |
| 2 | DIARY (SMALL)/VESAK CARD TYPE (B) | 735A |
| 3 | POCKET CALENDAR | 763 |
| 4 | DESK CALENDAR | 841 |
| 5 | WALL CALENDAR | 872 |
| 6 | GREETING CARD/VESAK CARD | 884 |
| 7 | ORGANIZER DIARY | 963 |
| 8 | ORGANISER DIARY (50%)/ VESAK CARD TYPE (C) | 963A |

|  |  |  |  |
| --- | --- | --- | --- |
| **RELIGION RECOVERY** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | BUDDHIST | 902 |
| 2 | BUDDHIST (RECOVERY) | 902A |
| 3 | BUDDHIST(MIHINTHALAYA) | 902B |
| 4 | BUDDHIST(MIHINTHALAYA) RECOVERY | 902C |
| 5 | HINDU | 903 |
| 6 | HINDU (RECOVERY) | 903A |
| 7 | ISLAM | 904 |
| 8 | ISLAM (RECOVERY) | 904A |
| 9 | CATHOLIC | 905 |
| 10 | CATHOLIC (RECOVERY) | 905A |
|  |  |  |  |
| **SPORTS** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | SPORTS DEDUCTION - OFFICER | 705 |
| 2 | SPORTS DEDUCTION - SAILOR | 707 |
| 3 | SPORTS DEDUCTION (RECOVERY) | 707A |
| 4 | SPORTS GOODS | 867 |
|  |  |  |  |
| **MARRIED QUARTERS WATER BILL** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | MAHANAGA | 723 |
| 2 | USWETAKEYYAWA | 792 |
| 3 | ELAPITIWALA | 896 |
| 4 | UPPER CHATHAM STREET | 936 |
|  |  |  |  |
|  |  |  |  |
| **MARRIED QUARTERS ELECTRICITY BILL** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | NAVDOCK | 785 |
| 2 | MAHASEN | 786 |
| 3 | BARANA | 805 |
| 4 | MAHANAGA | 1207 |
|  |  |  |  |
| **HOLIDAY BUNGALOW RECOVERY** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | SIDULIYA SEWANA - GEMUNU | 731 |
| 2 | SAS | 837 |
| 3 | EAST | 837 |
| 4 | NORWEST | 837 |
| 5 | SOUTH | 837 |
| 6 | WEST | 837 |
| 7 | MALIMA | 837 |
| 8 | KATHARAGAMA | 860 |
| 9 | NILAWELI | 1205 |
|  |  |  |  |
| **HOLIDAY BUNGALOW TRANSPORT RECOVERY** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | DAE (SERVICE WEDDING) | 861 |
| 2 | DAE (USE FOR CAR TRAVELLING TO HB) | 861 |
| 3 | DAE (OVER KILOMETRES) | 861 |
| 4 | NILAWELI | 861 |
| 5 | RUHUNA | 861 |
| 6 | TISSA | 861 |
| 7 | DIYATHALAWA | 861 |
| 8 | ANURADHAPURA | 861 |
| 9 | OYAMADUWA | 861 |
| 10 | BARANA | 861 |
| 11 | SVU - DIYATHALAWA | 861 |
| 12 | MAHANAGA | 861 |
| 13 | KATHARAGAMA | 861 |

|  |  |  |
| --- | --- | --- |
| **OTHER RECOVERY** | |  |
|  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |
| 1 | NAVIKA RIYADURU SAVI FUND | 736 |
| 2 | CHARGEABLE ISSUE UNIFORM | 730 |
| 3 | BLAZER SUIT | 875 |
| 4 | SPORTS TIE | 898 |
| 5 | NAVAL BENEFIT FOUNDATION | 803 |
| 6 | BR 7,8,9 | 799 |
| 7 | SAYURUSARA MAGAZINE | 1112 |
| 8 | DONATION (NATIONAL KIDNEY FUND) | 806 |
| 9 | BATMAN ALLOWANCES - KDU | 826 |
| 10 | RANAVIRU MAPIYA RECOVERY | 706 |
| 11 | LOCAL COURSE DEDUCTION | 819 |
| 12 | OVERSEAS DEDUCTION | 887 |
| 13 | UN USED RAILWAY WARRANT FINES | 989 |
| 14 | PAN ASIA GUARANTORS LOAN DEDU | 1223 |
| 15 | PRINTING RECOVERY | 738 |
| 16 | NEWS PAPER | 931 |
| 17 | SPECIAL RECOVERY | 807 |
| 18 | NAVAL ASSOCIATION | 992 |
| 19 | NAVAL ASSOCIATION (RECOVERY) | 992A |
| 20 | CRNVR ASSOCIATION | 992B |
| 21 | CRNVR ASSOCIATION (RECOVERY) | 992C |
| 22 | VNF ANNUAL CAMP | 761 |
| 23 | SVU - FAMILY SHOP | 745 |
| 24 | SVU - MOD LOAN | 868 |
| 25 | SVU LOAN | 925 |
| 26 | LOSS & DAMAGE | 729 |
| 27 | LOSS LIBRARY BOOK - NMA | 747 |
| 28 | ACCIDENT | 917 |
|  |  |  |  |
|  |  |  |  |
| **OTHER RECOVERY** | |  |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |  |
| 1 | NAVIKA RIYADURU SAVI FUND | 736 |  |
| 2 | CHARGEABLE ISSUE UNIFORM | 730 |  |
| 3 | SPORTS GOODS | 867 |  |
| 4 | BLAZER SUIT | 875 |  |
| 5 | SPORTS TIE | 898 |  |
| 6 | NAVAL BENEFIT FOUNDATION | 803 |  |
| 7 | BR 7,8,9 | 799 |  |
| 8 | BATMAN ALLOWANCES - KDU | 826 |  |
| 9 | PRINTING RECOVERY | 738 |  |
| 10 | NEWS PAPER | 931 |  |
| 11 | SPECIAL RECOVERY | 807 |  |
| 12 | SVU - FAMILY SHOP | 745 |  |
| 13 | SVU - MOD LOAN | 868 |  |
| 14 | SVU LOAN | 925 |  |
| 15 | LOSS & DAMAGE | 729 |  |
| 16 | LOSS LIBRARY BOOK - NMA | 747 |  |
| 17 | ACCIDENT | 917 |  |
|  |  |  |  |
| **PAYMENTS** | | |  |
|  |  |  |  |
| **S.N** | **DESCREPTION** | **ITEM CODE** |  |
| 1 | BOOK LOAN PAYMENT | 574 |  |
| 2 | FESTIVAL ADVANCE PAYMENT | 681 |  |
| 3 | LOAN OVER PAYMENT (ACCOUNT) | 627 |  |
| 4 | TENDER PAYMENT | 551 |  |
| 5 | WELFARE OVER PAYMENT | 500 |  |
| 6 | MEDICAL BILL PAYMENT | 516 |  |

**Deliverables**

1. Provides facility to log into the system by using HRMS username, password(No need any registration)
2. Provides Naval personnel’s official no verification facility at the data entry stage.(ex-Not in service)
3. Provides facility to upload recoveries from excel sheet.
4. System provides online authorizing/rejecting facility to relevant CO/HOD/Director.
5. Subject /Item Code/Base Code entered automatically at the data entry stage.
6. System provide facility to confirm/reject the recoveries which authorized by relevant CO/HOD/Director.
7. All the manual practice are automated and produce final xml for pay process.
8. Indicates recovered amount in details to the recovery sender.
9. System provides separate sub system for each system user to retrieve old recoveries.
10. System provides transaction tracking facility to users for trace.
11. System provides a panel to the subject clerks for observation of received and pending recoveries.

**Target Personnel**

1. All the parties who send the recoveries to the Pay section.
2. All authorized personnel such as CO/HOD/Directors.
3. Authorized officer of the Pay Section.
4. Subject Clerk.

**Technical Requirement/Details**

1. Existing computers/Servers and network can be utilized for the system.
2. SQL Database and Visual Studio 2012 software are used as developing tools.
3. ASP.net, C# and HTML programming languages are used for development of web based e-recovery system.

**System Development Life Cycle**

**Project Timeline**

|  |  |
| --- | --- |
| **Task Name** | **NOF Days** |
| Planning & Analyze | 05 |
| Design | 05 |
| Coding | 25 |
| Testing & Debugging | 10 |
| Deployment | 5 |
| Total Days | 50 |