Table 1A

AWARENESS

RELIABILITY ANALYSIS - SCALE (ALPHA)

| 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. | ALOGSYS ALOGWORK APROCURE ALIST ADEMAND ADELIVER APROAMP APROEMRG APROREFT ASDLAKDL ASPAREFT ASYRS ASSC AOSL AOPS AILS AILSCONP AMECH | | log work procument initial s demand pr spare del procedure procedure procedure SDL/AKDL spare ref. 5 yrs base sqn suppo OSL spare for ILS | procument spare initial spare demand process spare deliver procedure amp procedure emrerg procedure slipping SDL/AKDL spare refir 5 yrs base spare sqn support OSL spare for ops ILS ILS concept | | | | | | | |
|--|---|---------|---|--|-----------|--|--|--|--|--|--|
| | | | Mean | Std Dev | Cases | | | | | | |
| 1. | ALOGSYS | | 3.2742 | .8526 | 62.0 | | | | | | |
| 2. | ALOGWORK | | 3.2419 | .8432 | | | | | | | |
| 3. | APROCURE | | 3.1774 | .8594 | | | | | | | |
| 4. | ALIST | | 3,0000 | .8493 | | | | | | | |
| 5. | ADEMAND | | 3.7581 | .8432 | | | | | | | |
| 6. | ADELIVER | | 3.6935 | .8216 | 0 | | | | | | |
| 7. | APROAMP | | 3.6290 | .8728 | | | | | | | |
| 8. | APROEMRG | | 3.6129 | .8936 | -2 | | | | | | |
| 9. | APROREFT | | 3.7258 | .8132 | 62.0 | | | | | | |
| 10. | ASDLAKDL | | 3.6613 | .8482 | 62.0 | | | | | | |
| 11. | ASPAREFT | | 3.6290 | .7941 | 62.0 | | | | | | |
| 12. | A5YRS | | 2.5968 | .9489 | 62.0 | | | | | | |
| 13. | ASSC | | 3.1452 | .8842 | 62.0 | | | | | | |
| 14. | AOSL | | 3.6935 | .8216 | 62.0 | | | | | | |
| 15. | AOPS | | 3.4194 | .7798 | 62.0 | | | | | | |
| 16. | AILS | | 2.9355 | .9729 | 62.0 | | | | | | |
| 17. | AILSCONP | | 2.8548 | 1.0218 | 62.0 | | | | | | |
| 18. | AMECH | | 3.3226 | .8253 | 62.0 | | | | | | |
| Static | tics for | | | | N of | | | | | | |
| | | Mean | | Std Dev | Variables | | | | | | |
| , | OCADE | 60.3710 | 123.5487 | 11.1152 | 18 | | | | | | |

Item-total Statistics

| | Scale Mean if Item | Scale Variance if Item | Corrected Item- Total | Alpha if Item |
|----------|--------------------------|------------------------------|-----------------------------|------------------|
| | Deleted | Deleted | Correlation | Deleted |
| ALOGSYS | 57.0968 | 110.2856 | .7001 | ,9395 |
| ALOGWORK | 57.1290 | 110.9339 | .6702 | .9401 |
| APROCURE | 57.1935 | 110.8800 | .6592 | .9403 |
| ALIST | 57.3710 | 111.3519 | .6402 | .9406 |
| ADEMAND | 56.6129 | 111.2247 | .6529 | .9404 |
| ADELIVER | 56.6774 | 110.1565 | .7374 | .9389 |
| APROAMP | 56.7419 | 108.9487 | .7595 | .9383 |
| APROEMRG | 56.7581 | 108.9733 | .7384 | .9387 |
| APROREFT | 56.6452 | 110.3310 | .7350 | .9389 |
| ASDLAKDL | 56.7097 | 110.8652 | .6698 | .9401 |
| ASPAREFT | 56.7419 | 111.1126 | .7052 | .9395 |
| A5YRS | 57.7742 | 108,9646 | .6908 | .9397 |
| A:SSC | 57.2258 | 111.4564 | .6058 | .9413 |
| AOSL | 56.6774 | 110.5172 | .7153 | .9393 |
| AOPS | 56.9516 | 111.7517 | .6786 | .9400 |
| AILSCONP | 57.4355 | 109,2335 | .6574 | .9405 |
| AILSIMPL | 57.5161 | 110.1555 | .5757 | .9424 |
| AMECH | 57.0484 | 113.1288 | .5547 | .9422 |

Reliability Coefficients

N of Cases = 62.0

N of Items = 18

Table 1B

DEFECT RECTIFICATION EFFECIENCY

| R | E | L | Ι | Α | В | Ι | L | Ι | T | Y | Α | N | A | L | Y | S | Ι | S | _ | S | С | Α | Ĺ | E | (| Α | L | Р | Н | Α) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| 1. | ECMECH | effc | mechanical |
|----|----------|------|------------|
| 2. | ECELECT | effc | electric |
| 3. | ECWEAPON | effc | weapon |
| 4. | ECHULL. | effc | hull |

| | | Mean | Std Dev | Cases |
|----|----------|--------|---------|-------|
| 1. | ECMECH | 3.1935 | .8462 | 62.0 |
| 2. | ECELECT | 3.2419 | .8432 | 62.0 |
| 3. | ECWEAPON | 2.8387 | .8336 | 62.0 |
| 4. | ECHULL | 3.5161 | .8247 | 62.0 |

| | | | | N ot |
|----------------|---------|----------|---------|-----------|
| Statistics for | Mean | Variance | Std Dev | Variables |
| SCALE | 12.7903 | 6.8897 | 2.6248 | 4 |

Item-total Statistics

| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item- Total Correlation | Alpha if Item Deleted |
|----------|-------------------------------------|---|--|-----------------------------|
| ECMECH | 9.5968 | 3.7200 | .7517 | .6589 |
| ECELECT | 9.5484 | 3.9238 | .6750 | .7007 |
| ECWEAPON | 9.9516 | 4.5058 | .4773 | .7985 |
| ECHULL | 9.2742 | 4.4318 | .5120 | .7818 |

Reliability Coefficients

N of Cases = 62.0

N of Items = 4

Table 1C

EFFECTIVENESS IN DEFECT RECTIFICATION

RELIABILITY ANALYSIS - SCALE (ALPHA)

| 1. | EVMECH | effv | mecahnical |
|----|----------|------|------------|
| 2. | EVELECT | effv | electric |
| 3. | EVWEAPON | effv | weapon |
| 4. | EVHULL | effv | hull |

| | | Mean | Std Dev | Cases |
|----|----------|--------|---------|-------|
| 1. | EVMECH | 3.3387 | .8287 | 62.0 |
| 2. | EVELECT | 3.3710 | .8344 | 62.0 |
| 3. | EVWEAPON | 2.8710 | .8775 | 62.0 |
| 4. | EVHULL | 3.5000 | .7629 | 62.0 |

Statistics for Mean Variance Std Dev Variables SCALE 13.0806 6.5344 2.5562 4

Item-total Statistics

| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item- Total Correlation | Alpha if Item Deleted |
|----------|-------------------------------------|---|--|-----------------------------|
| EVMECH | 9.7419 | 3.4077 | .7975 | .5985 |
| EVELECT | 9.7097 | 3.4881 | .7540 | .6233 |
| EVWEAPON | 10.2097 | 4.1684 | .4454 | .7930 |
| EVHULL | 9.5806 | 4.7393 | .3652 | .8186 |

Reliability Coefficients

N of Cases = 62.0 N of Items = 4

TABLE 1D

SHIP STAFF INVOLVEMENT AND DEPENDENCY

| I | 3 | Ε | L | Ι | Α | В | Ι | L | Ţ | , Libs | Y | A | N | A | L | Y | S | Ι | S | _ | S | С | P | L I. | E | (A | L | Ρ | Н | A) | |
|---|---|---|---|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|------|---|----|---|---|---|----|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 1. 2. 3. 4. 5. 6. 7. | SFOLLDEM SREFDEF SMGDEF SCOMPQTY SCOMPQLY SIDSPR SASTBASE SCOMPDLY | | storedem refer defe manage def complain q complain q ident spar- assist bas- compalin de | ect ty ly e e staff | |
|--|--|------|---|---------------------------------|-----------|
| 9. | SRESPDEF | | respond de | | |
| 10. | SRLYBASE | | rely base | | |
| | | | Mean | Std Dev | Cases |
| 1. | SFOLLDEM | | 4.0484 | .7981 | 62.0 |
| 2. | SREFDEF | | 3.9677 | .6767 | 62.0 |
| 3. | SMGDEF | | 3.7419 | .6998 | 62.0 |
| 4. | SCOMPQTY | | 3.4355 | .9165 | 62.0 |
| 5. | SCOMPQLY | | 3.0161 | 1.1234 | |
| 6. | SIDSPR | | 3.7097 | .7764 | |
| 7. | SASTBASE | | 4.0323 | .9227 | |
| 8. | SCOMPDLY | | 4.0968 | 1.0513 | |
| 9. | SRESPDEF | | 3.8226 | .9148 | |
| 10. | SRLYBASE | | 2.8548 | .8267 | |
| | | | | | N of |
| Static | tics for | Moan | Varianda | C+4 D | 772-3-1-1 |

Statistics for Mean Variance Std Dev Variables SCALE 36.7258 25.2515 5.0251 10

Item-total Statistics

| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item- Total Correlation | Alpha if Item Deleted |
|----------|-------------------------------------|---|--|-----------------------------|
| SFOLLDEM | 32.6774 | 21.6975 | .3923 | .7553 |
| SREFDEF | 32.7581 | 22.2192 | .4035 | .7550 |
| SMGDEF | 32.9839 | 23.1637 | .2373 | .7716 |
| SCOMPQTY | 33.2903 | 20.1766 | .5143 | .7388 |
| SCOMPQLY | 33.7097 | 19.7832 | .4209 | .7551 |
| SIDSPR | 33.0161 | 20.8686 | .5329 | .7388 |
| SASTBASE | 32.6935 | 19.8882 | .5482 | .7338 |
| SCOMPDLY | 32.6290 | 18.3683 | .6412 | .7170 |
| SRESPDEF | 32.9032 | 20.5479 | .4662 | .7456 |
| SRLYBASE | 33.8710 | 23.0650 | .1893 | .7795 |

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Reliability Coefficients

N of Cases = 62.0

N of Items = 10

Table 2 - Awareness

| Area of Awareness | N | Minimum | Maximum | Mean | Std. |
|------------------------------|------------|---------|---------|--------|-----------|
| | <u> </u> | | | | Deviation |
| RMN Log System | 62 | 2.00 | 5.00 | 3.2742 | 85256 |
| Log Sys Work | 62 | 2.00 | 5.00 | 3.2419 | .84321 |
| Procument of Spare | 62 | 1.00 | 5.00 | 3.1774 | 85936 |
| Formulation of Initial Spare | 62 | 1.00 | 5.00 | 3.0000 | .84930 |
| Demand Process | 62 | 1.00 | 5.00 | 3.7581 | .84321 |
| Delivery Method of Spare | 62 | 1.00 | 5.00 | 3.6935 | .82161 |
| AMP Procedure | 62 | 1.00 | 5.00 | 3.6290 | .87279 |
| Emergency Docking | 62 | 2.00 | 5.00 | 3.6129 | .89360 |
| Procedure | | | | | ; ! |
| Slipping Procedure | 62 | 2.00 | 5.00 | 3.7258 | .81320 |
| SDL/AKDL | 62 | 1.00 | 5.00 | 3.6613 | .84821 |
| Spare Requirement for | 62 | 2.00 | 5.00 | 3.6290 | .79412 |
| Refit | | | | | |
| 5 yrs Base Spare | 62 | 1.00 | 4.00 | 2.5968 | .94885 |
| Sqn Support Concept | 62 | 1.00 | 5.00 | 3.1452 | .88423 |
| OSL | 6 2 | 1.00 | 5.00 | 3.6935 | .82161 |
| Delivery of Spare for | 6 2 | 1.00 | 5.00 | 3.4194 | .77984 |
| Operational Ship | ! | | | | |
| ILS Concept | 62 | 1.00 | 5.00 | 2.9355 | .97293 |
| ILS Implementation | 62 | 1.00 | 5.00 | 2.8548 | 1.02184 |
| Mechanism of Log Support | 62 | 1.00 | 5.00 | 3.3226 | 82530 |
| at Sea | | | | | Ì |
| Total Awareness | 6 2 | 1.00 | 3.00 | 1.9516 | .79810 |
| Valid N (listwise) | 62 | | | | |

TABLE 3 - CROSS TABULATIONS

3A - TOTAL AWARENESS - YEARS OF SERVICE WITH THE FLEET

| Crosstab | | | | | | |
|----------|-------|--------------------------|-----------|------------|---------------|--------|
| | | | Tota | al Awarene | ss | Total |
| | | | Not aware | Aware | Much Aware | |
| RMNSVC | 3-5 | Count | 10 | 8 | 5 | 23 |
| | Years | % within RMNSVC | 1 | 34.8% | 21.7% | 100.0% |
| | | % within total awareness | 1 | 34.8% | 27.8% | 37.1% |
| | | % of Total | 16.1% | 12.9% | 8.1% | 37.1% |
| | 6-10 | Count | 7 | 8 | 2 | 17 |
| | Years | % within RMNSVC | 41.2% | 47.1% | 11.8% | 100.0% |
| | | % within total awareness | | 34.8% | 11.1% | 27.4% |
| | | % of Total | | 12.9% | 3.2% | 27.4% |
| | 11-15 | Count | 2 | 5 | 9 | 16 |
| | Years | % within RMNSVC | I i | 31.3% | 56.3% | 100.0% |
| | | % within total awareness | (| 21.7% | 50.0% | 25.8% |
| | | % of Total | 3.2% | 8.1% | 14.5% | 25.8% |
| | 16-20 | Count | 2 | 2 | 2 | 6 |
| | Years | % within RMNSVC | | 33.3% | 33.3% | 100.0% |
| | | % within total awareness | 1 | 8.7% | 11.1% | 9.7% |
| | | % of Total | 3.2% | 3.2% | 3.2% | 9.7% |
| Total | | Count | 21 | 23 | 18 | 62 |
| | | % within RMNSVC | 1 | 37.1% | 29.0% | 100.0% |
| | | % within total | 100.0% | 100.0% | 100.0% | 100.0% |
| | | % of Total | † | 37.1% | 29.0% | 100.0% |

Chi-Square Tests

| | Value | df | Asymp. Sig. (2-sided) |
|------------------|--------|----|-----------------------|
| Pearson Chi- | 9.999 | 6 | .125 |
| Square | | i | |
| Likelihood Ratio | 10.261 | 6 | .114 |
| Linear-by-Linear | 3.759 | 1 | .053 |
| Association | | | |
| N of Valid Cases | 62 | | |

a 5 cells (41.7%) have expected count less than 5. The minimum expected count is 1.74.

3B - TOTAL DEFECT RECTIFICATION EFFECTIVENES - YEARS OF SERVICE WITH THE FLEET

| Crosstab | | | То | tal Effectivenes | SS | Total |
|----------|------------|------------------------------|---------------|------------------|----------------|--------|
| | | | Not Effective | Effective | Very Effective | |
| RMNSVC | 3-5 Years | Count | 11 | 4 | 8 | 23 |
| | | % within RMNSVC | 47.8% | 17.4% | 34.8% | 100.0% |
| | | % within total effectiveness | 50.0% | 20.0% | 40.0% | 37.1% |
| | | % of Total | 17.7% | 6.5% | 12.9% | 37.1% |
| | 6-10 Years | | 3 | 9 | 5 | 17 |
| | | % within RMNSVC | 17.6% | 52.9% | 29.4% | 100.0% |
| | | % within total effectiveness | 13.6% | 45.0% | | 27.4% |
| | | % of Total | 4.8% | 14.5% | 8.1% | 27.4% |
| | 11-15 | Count | 8 | 3 | 5 | 16 |
| | Years | % within RMNSVC | 50.0% | 18.8% | 31.3% | 100.0% |
| | | % within total effectiveness | 36.4% | 15.0% | 25.0% | 25.8% |
| | | % of Total | 12.9% | 4.8% | 8.1% | 25.8% |
| | 16-20 | Count | | 4 | 2 | (|
| | Years | % within RMNSVC | | 66.7% | 33.3% | 100.0% |
| | | % within total effectiveness | | 20.0% | 10.0% | 9.7% |
| | | % of Total | | 6.5% | 3.2% | 9.7% |
| Tota | | Count | 22 | 20 | | 62 |
| | | % within RMNSVC | 35.5% | 32.3% | 32.3% | 100.0% |
| | | % within total effectiveness | 100.0% | 100.0% | 100.0% | 100.0% |
| | | % of Total | 35.5% | 32.3% | 32.3% | 100.0% |

| Chi-Square Tests | | | |
|------------------------------|--------|----|------------------------------|
| | Value | df | Asymp. Sig. (2- sided) |
| Pearson Chi-Square | 12.624 | 6 | .049 |
| Likelihood Ratio | 14.486 | 6 | .025 |
| Linear-by-Linear Association | .402 | 1 | .526 |
| N of Valid Cases | 62 | | |

a 3 cells (25.0%) have expected count less than 5. The minimum expected count is 1.94.

3C - TOTAL DEFECT RECTIFICATION EFFECTIVENESS - RANK (JUNIOR/SENIOR)

| Crosstab | | | | | | | | |
|----------|--------|------------------------------|------------------|---------------------|-------------------|--------|--|--|
| | | | Total | Total Effectiveness | | | | |
| | | | Not effective | Effective | Very Effective | | | |
| RANK1 | Junior | Count | 20 | 13 | 18 | 51 | | |
| | | % within RANK1 | 39.2% | 25.5% | 35.3% | 100.0% | | |
| | | % within total effectiveness | 90.9% | 65.0% | 90.0% | 82.3% | | |
| | | % of Total | 32.3% | 21.0% | 29.0% | 82.3% | | |
| | Senior | Count | 2 | 7 | 2 | 11 | | |
| | | % within RANK1 | 18.2% | 63.6% | 18.2% | 100.0% | | |
| | | % within total effectiveness | 9.1% | 35.0% | 10.0% | 17.7% | | |
| | | % of Total | 3.2% | 11.3% | 3.2% | 17.7% | | |
| Total | | Count | 22 | 20 | 20 | 62 | | |
| | | % within RANK1 | 35.5% | 32.3% | 32.3% | 100.0% | | |
| | | % within total effectiveness | 100.0% | 100.0% | 100.0% | 100.0% | | |
| | | % of Total | 35.5% | 32.3% | 32.3% | 100.0% | | |

Chi-Square Tests

| | Value | df | Asymp. Sig. (2-sided) |
|------------------------------|-------|----|-----------------------|
| Pearson Chi-Square | 6.031 | 2 | .049 |
| Likelihood Ratio | 5.660 | 2 | .059 |
| Linear-by-Linear Association | .020 | 1 | .887 |
| N of Valid Cases | 62 | | |

a 3 cells (50.0%) have expected count less than 5. The minimum expected count is 3.55.

Table 4A Descriptive Analysis For Each Variable on Customers (Mean Analysis)

Table 4A-1 Efficiency - Rank

Descriptive Statistics

| | I | N | Mean | Std. Deviation | Minimum | Maximum |
|-----------------------|--------|----|--------|----------------|---------|---------|
| | | | | | | |
| Efficiency | Junior | 51 | 3.1176 | .88650 | 1.00 | 5.00 |
| Mechanical | Senior | 11 | 3.5455 | .52223 | 3.00 | 4.00 |
| | Total | 62 | 3.1935 | .84618 | 1.00 | 5.00 |
| Efficiency Electrical | Junior | 51 | 3.2157 | .85589 | 2.00 | 5.00 |
| | Senior | 11 | 3.3636 | .80904 | 2.00 | 4.00 |
| | Total | 62 | 3.2419 | .84321 | 2.00 | 5.00 |
| Efficiency | Junior | 51 | 2.8235 | .76696 | 1.00 | 5.00 |
| Electronics & | Senior | 11 | 2.9091 | 1.13618 | 1.00 | 4.00 |
| Weapon | Total | 62 | 2.8387 | .83359 | 1.00 | 5.00 |
| Efficiency Hull | Junior | 51 | 3.5098 | 85726 | 1.00 | 5.00 |
| | Senior | 11 | 3.5455 | .68755 | 2.00 | 4.00 |
| | Total | 62 | 3.5161 | .82466 | 1.00 | 5.00 |

(Note: Senior are Cdr and Captain)

Table 4A-2 Efficiency - Branch

| | | N | Mean | Std. Deviation | Minimum | Maximum |
|--------------|-----------|----|--------|----------------|---------|---------|
| | | | | | | |
| Efficiency | Executive | 29 | 3.2759 | .70186 | 2.00 | 4.00 |
| Mechanical | Technical | 25 | 3.1200 | 1.01325 | 1.00 | 5.00 |
| | Supply | 8 | 3.1250 | .83452 | 2.00 | 4.00 |
| | Total | 62 | 3.1935 | .84618 | 1.00 | 5.00 |
| Efficiency | Executive | 29 | 3.1724 | .71058 | 2.00 | 4.00 |
| Electrical | Technical | 25 | 3.3600 | .99499 | 2.00 | 5.00 |
| | Supply | 8 | 3.1250 | .83452 | 2.00 | 4.00 |
| _ | Total | 62 | 3.2419 | .84321 | 2.00 | 5.00 |
| Efficiency | Executive | 29 | 2.7586 | .78627 | 1.00 | 4.00 |
| Electronic & | Technical | 25 | 2.8800 | .83267 | 2.00 | 5.00 |
| Weapori | Supply | 8 | 3.0000 | 1.06904 | 1.00 | 4.00 |
| | Total | 62 | 2.8387 | .83359 | 1.00 | 5.00 |
| Efficiency | Executive | 29 | 3.6207 | .67685 | 2.00 | 5.00 |
| Hull | Technical | 25 | 3.4400 | 1.04403 | 1.00 | 5.00 |
| | Supply | 8 | 3.3750 | .51755 | 3.00 | 4.00 |
| | Total | 62 | 3.5161 | .82466 | 1.00 | 5.00 |

Table 4A-3 Efficiency – Years of Service

| | | N | Mean | Std. Deviation | Minimum | Maximum |
|---------------|-----------------|----|--------|-------------------|---------|---------|
| Efficiency | 3 - 5 yrs | 23 | 3.1304 | .86887 | 2.00 | 5.00 |
| Mechanical | 6 - 10 yrs | 17 | 3.2941 | .84887 | 2.00 | 5.00 |
| | 11 - 15 yrs | 16 | 3.1250 | .71880 | 2.00 | 4.00 |
| | 16 - 20 yrs | 6 | 3.3333 | 1.21106 | 1.00 | 4.00 |
| | Total | 62 | 3.1935 | .84618 | 1.00 | 5.00 |
| Efficiency | 3 - 5 yrs | 23 | 3.1739 | 88688 | 2.00 | 5.00 |
| Electrical | 6 - 10 yrs | 17 | 3.3529 | .78591 | 2.00 | 5.00 |
| | 11 - 15 yrs | 16 | 3.0000 | .81650 | 2.00 | 4.00 |
| | 16 - 20 yrs | 6 | 3.8333 | .75277 | 3.00 | 5.00 |
| | Total | 62 | 3.2419 | .84321 | 2.00 | 5.00 |
| Efficiency | 3 - 5 yrs | 23 | 2.8696 | 1.05763 | 1.00 | 5.00 |
| Electronics & | 6 - 10 yrs | 17 | 2.8824 | .60025 | 2.00 | 4.00 |
| Weapon | 11 - 15 yrs | 16 | 2.6875 | .70415 | 2.00 | 4.00 |
| | 16 - 20 yrs | 6 | 3.0000 | .89443 | 2.00 | 4.00 |
| | Total | 62 | 2.8387 | .83359 | 1.00 | 5.00 |
| Efficiency | 1= 3 - 5 yrs | 23 | 3.3478 | .88465 | 2.00 | 5.00 |
| Hull | 2= 6 - 10 yrs | 17 | 3.7647 | .83137 | 2.00 | 5.00 |
| | 3= 11 - 15 yrs | 16 | 3.5000 | .51640 | 3.00 | 4.00 |
| | 4 = 16 - 20 yrs | 6 | 3.5000 | 1.22474 | 1.00 | 4.00 |
| | Total | 62 | 3.5161 | .82466 | 1.00 | 5.00 |

Table 4A-4 Efficiency - Class of Ship

| | | N | Mean | Std. Deviation | Minimum | Maximum |
|-------------------------------|----------|-----|--------|----------------|-------------|---------|
| Efficiency | FAC M | 7 | 2.8571 | 89974 | 2.00 | 4.00 |
| Mechanical | Corvette | 20 | 3.1500 | .81273 | 2.00 | 4.00 |
| ivi c ci iai licai | Frigate | 12 | 3.3333 | .65134 | 2.00 | 4.00 |
| | MCMV | 4 | 3.0000 | .81650 | 2.00 | 4.00 |
| | MPCSS | 12 | 3.4167 | 1.16450 | 1.00 | 5.00 |
| | PC/OPV | 7 | 3.1429 | .69007 | 2.00 | 4.00 |
| | Total | 62 | 3.1935 | .84618 | 1.00 | 5.00 |
| Efficiency | FAC M | 7 | 2.8571 | 89974 | 2.00 | 4.00 |
| Electrical | Corvette | 20 | 3.0500 | .75915 | 2.00 | 4.00 |
| Liectifical | Frigate | 12 | 3.2500 | .75378 | 2.00 | 4.00 |
| | MCMV | 4 | 3.2500 | .95743 | 2.00 | 4.00 |
| | MPCSS | 12 | 3.6667 | 1.07309 | 2.00 | 5.00 |
| | PC/OPV | 7 | 3.4286 | .53452 | 3.00 | 4.00 |
| | Total | 62 | 3.2419 | .84321 | 2.00 | 5.00 |
| Efficiency | FAC M | 7 | 2.5714 | .78680 | 2.00 | 4.00 |
| Electronic & | Corvette | 20 | 2.5000 | .82717 | 1.00 | 4.00 |
| Weapon | Frigate | 12 | 3.0000 | 73855 | 2.00 | 4.00 |
| VVCapon | MCMV | 4 | 3.0000 | .81650 | 2.00 | 4.00 |
| | MPCSS | 12 | 3.4167 | .90034 | 2.00 | 5.00 |
| | PC/OPV | 7 | 2.7143 | .48795 | 2.00 | 3.00 |
| ļ | Total | 62 | 2.8387 | .83359 | 1.00 | 5.00 |
| Efficiency | FAC M | 7 | 3.1429 | .69007 | 2.00 | 4.00 |
| Hull | Corvette | 20 | 3.5000 | .76089 | 2.00 | 5.00 |
| i iuii | Frigate | 12 | 3.5000 | 79772 | 2.00 | 5.00 |
| | MCMV | 12 | 3.7500 | 50000 | 3.00 | 4.00 |
| | MPCSS | 12 | 3.5000 | 1.24316 | 1.00 | 5.00 |
| | PC/OPV | 7 | | | | 4.00 |
| | | - / | 3.8571 | 37796 | 3.00 | |
| L | Total | 62 | 3.5161 | .82466 | 1.00 | 5.00 |

Table 4A-5 Efficiency - Number of Ship Served

| | <u> </u> | N | Mean | Std. Deviation | Minimum | Maximum |
|-------------|----------|----|--------|-------------------|---------|---------|
| | | | | | | |
| Efficiency | 1 Ship | 18 | 3.0556 | .87260 | 2.00 | 4.00 |
| Mechanical | 2 Ships | 16 | 3.0625 | .77190 | 2.00 | 5.00 |
| | 3 Ships | 18 | 3.5000 | .78591 | 2.00 | 5.00 |
| | 4 Ships | 7 | 3.1429 | .69007 | 2.00 | 4.00 |
| | 5 Ships | 2 | 4.0000 | .00000 | 4.00 | 4.00 |
| | 6 All | 1 | 1.0000 | | 1.00 | 1.00 |
| | Total | 62 | 3.1935 | .84618 | 1.00 | 5.00 |
| Efficiency | 1 Ship | 18 | 3.1667 | .85749 | 2.00 | 4.00 |
| Electrical | 2 Ships | 16 | 3.1875 | .83417 | 2.00 | 5.00 |
| | 3 Ships | 18 | 3.3333 | .84017 | 2.00 | 5.00 |
| | 4 Ships | 7 | 2.8571 | .69007 | 2.00 | 4.00 |
| | 5 Ships | 2 | 4.0000 | .00000 | 4.00 | 4.00 |
| | 6 All | 1 | 5.0000 | | 5.00 | 5.00 |
| | Total | 62 | 3.2419 | .84321 | 2.00 | 5.00 |
| Efficiency | 1 Ship | 18 | 2.7222 | .82644 | 1.00 | 4.00 |
| Electronics | 2 Ships | 16 | 2.6875 | .87321 | 1.00 | 4.00 |
| & Weapon | 3 Ships | 18 | 3.1111 | .83235 | 2.00 | 5.00 |
| | 4 Ships | 7 | 2.5714 | .53452 | 2.00 | 3.00 |
| 1 | 5 Ships | 2 | 3.0000 | 1.41421 | 2.00 | 4.00 |
| | 6 All | 1 | 4.0000 | | 4.00 | 4.00 |
| | Total | 62 | 2.8387 | .83359 | 1.00 | 5.00 |
| Efficiency | 1 Ship | 18 | 3.6667 | .68599 | 2.00 | 5.00 |
| Hull | 2 Ships | 16 | 3.1875 | .91059 | 2.00 | 5.00 |
| | 3 Ships | 18 | 3.7222 | .75190 | 2.00 | 5.00 |
| | 4 Ships | 7 | 3.5714 | .53452 | 3.00 | 4.00 |
| | 5 Ships | 2 | 4.0000 | .00000 | 4.00 | 4.00 |
| 1 | 6 All | 1 | 1.0000 | | 1.00 | 1.00 |
| | Total | 62 | 3.5161 | .82466 | 1.00 | 5.00 |

Table 4A-6 Overall Satisfaction of Customer on Efficiency (Defect Rectification)

| | N | Mean | Std. Deviation | Minimum | Maximum |
|--------------------------|----|--------|-------------------|---------|---------|
| Efficiency Mechanical | 62 | 3.1935 | .84618 | 1.00 | 5.00 |
| Efficiency Electrical | 62 | 3.2419 | .84321 | 2.00 | 5.00 |
| Efficiency Electronics & | 62 | 2.8387 | .83359 | 1.00 | 5.00 |
| Weapon | | | | | |
| Efficiency Hull | 62 | 3.5161 | .82466 | 1.00 | 5.00 |

Table 5 Descriptive Analysis For Each Variable on Customers (Mean Analysis)

Table 5A-1 Effectiveness - Rank

Descriptive Statistics

| | | N | Mean | Std. | Minimum | Maximum |
|---------------|--------|----|--------|-----------|---------|---------|
| | | | | Deviation | | |
| Effectiveness | Junior | 51 | 3.3137 | .86000 | 1.00 | 5.00 |
| Mechanical | Senior | 11 | 3.4545 | .68755 | 2.00 | 4.00 |
| | Total | 62 | 3.3387 | .82866 | 1.00 | 5.00 |
| Effectiveness | Junior | 51 | 3.3529 | .86772 | 1.00 | 5.00 |
| Electrical | Senior | 11 | 3.4545 | .68755 | 2.00 | 4.00 |
| | Total | 62 | 3.3710 | .83438 | 1.00 | 5.00 |
| Effectiveness | Junior | 51 | 2.8824 | .86364 | 1.00 | 5.00 |
| Electronic & | Senior | 11 | 2.8182 | .98165 | 1.00 | 4.00 |
| Weapon | Total | 62 | 2.8710 | .87748 | 1.00 | 5.00 |
| Effectiveness | Junior | 51 | 3.4902 | .78416 | 1.00 | 5.00 |
| Hull | Senior | 11 | 3.5455 | .68755 | 2.00 | 4.00 |
| | Total | 62 | 3.5000 | .76287 | 1.00 | 5.00 |

Table 5A-2 Effectiveness – Branch

| | | N | Mean | Std. | Minimum | Maximum |
|---------------------------|-----------|----|--------|-----------|---------|---------|
| | | | Ì | Deviation | | |
| Effectiveness Mechanical | Executive | 29 | 3.3793 | .82001 | 1.00 | 4.00 |
| | Technical | 25 | 3.3600 | .86023 | 2.00 | 5.00 |
| | Supply | 8 | 3.1250 | .83452 | 2.00 | 4.00 |
| | Total | 62 | 3.3387 | .82866 | 1.00 | 5.00 |
| Effectiveness Electrical | Executive | 29 | 3.3793 | .77523 | 1.00 | 4.00 |
| | Technical | 25 | 3.4400 | .91652 | 2.00 | 5.00 |
| | Supply | 8 | 3.1250 | .83452 | 2.00 | 4.00 |
| | Total | 62 | 3.3710 | .83438 | 1.00 | 5.00 |
| Effectiveness Electronics | Executive | 29 | 2.8276 | .84806 | 1.00 | 4.00 |
| & Weapon | Technical | 25 | 2.8800 | .88129 | 2.00 | 5.00 |
| · | Supply | 8 | 3.0000 | 1.06904 | 1.00 | 4.00 |
| | Total | 62 | 2.8710 | .87748 | 1.00 | 5.00 |
| Effectiveness Hull | Executive | 29 | 3.6207 | .62185 | 2.00 | 5.00 |
| | Technical | 25 | 3.4000 | .95743 | 1.00 | 5.00 |
| | Supply | 8 | 3.3750 | .51755 | 3.00 | 4.00 |
| | Total | 62 | 3.5000 | .76287 | 1.00 | 5.00 |

Table 5A-3 Effectiveness – Years of Service

| | | N | Mean | Std. | Minimum | Maximum |
|---------------|-------------|--------------|--------|-----------|---------|---------|
| | | | | Deviation | | |
| Effectiveness | 3 - 5 yrs | 23 | 3.3478 | .83168 | 2.00 | 5.00 |
| Mechanical | 6 - 10 yrs | 17 | 3.5294 | .71743 | 2.00 | 5.00 |
| | 11 - 15 yrs | 16 | 3.0625 | .92871 | 1.00 | 4.00 |
| 1 | 16 - 20 yrs | | 3.5000 | .83666 | 2.00 | 4.00 |
| | Total | 62 | 3.3387 | .82866 | 1.00 | 5.00 |
| Effectiveness | 3 - 5 yrs | 23 | 3.2609 | .86431 | 2.00 | 5.00 |
| electrical | 6 - 10 yrs | 17 | 3.5882 | .61835 | 3.00 | 5.00 |
| | | 16 | 3.0625 | .92871 | 1.00 | 4.00 |
| | 16 - 20 yrs | | 4.0000 | 63246 | 3.00 | 5.00 |
| | Total | 62 | 3.3710 | .83438 | 1.00 | 5.00 |
| Effectiveness | 3 - 5 yrs | 23 | 2.9130 | 1.04067 | 1.00 | 5.00 |
| Electronics & | 6 - 10 yrs | 17 | 2.8235 | .52859 | 2.00 | 4.00 |
| Weapon | 11 - 15 yrs | 16 | 2.8125 | 91059 | 1.00 | 4.00 |
| ' | 16 - 20 yrs | | 3.0000 | 1.09545 | 2.00 | 5.00 |
| | Total | 62 | 2.8710 | .87748 | 1.00 | 5.00 |
| Effectiveness | 3 - 5 yrs | 23 | 3.3478 | .83168 | 2.00 | 5.00 |
| Hull | 6 - 10 yrs | 17 | 3.7647 | .66421 | 3.00 | 5.00 |
| | 11 - 15 yrs | | 3.4375 | .51235 | 3.00 | 4.00 |
| | 16 - 20 yrs | | 3.5000 | 1.22474 | 1.00 | 4.00 |
| | Total | 62 | 3.5000 | .76287 | 1.00 | 5.00 |

Table 5A-4 Effectiveness - Class of Ship

| | | N | Mean | Std. | Minimum | Maximum |
|---------------|----------|----|--------|-----------|---------|---------|
| | | | | Deviation | | |
| Effectiveness | FAC M | 7 | 3.1429 | 1.21499 | 1.00 | 4.00 |
| Mechanical | Corvette | 20 | 3.1500 | .74516 | 2.00 | 4.00 |
| | Frigate | 12 | 3.4167 | .66856 | 2.00 | 4.00 |
| | MCMV | 4 | 3.5000 | .57735 | 3.00 | 4.00 |
| | MPCSS | 12 | 3.5833 | .99620 | 2.00 | 5.00 |
| | PC/OPV | 7 | 3.4286 | .78680 | 2.00 | 4.00 |
| | Total | 62 | 3.3387 | .82866 | 1.00 | 5.00 |
| Effectiveness | FAC M | 7 | 3.0000 | 1.15470 | 1.00 | 4.00 |
| Electrical | Corvette | 20 | 3.1500 | .74516 | 2.00 | 4.00 |
| | Frigate | 12 | 3.4167 | .66856 | 2.00 | 4.00 |
| | MCMV | 4 | 3.2500 | .95743 | 2.00 | 4.00 |
| | MPCSS | 12 | 3.8333 | .93744 | 2.00 | 5.00 |
| | PC/OPV | 7 | 3.5714 | .53452 | 3.00 | 4.00 |
| | Total | 62 | 3.3710 | .83438 | 1.00 | 5.00 |
| Effectiveness | FAC M | 7 | 2.5714 | .97590 | 1.00 | 4.00 |
| | Corvette | 20 | 2.5000 | .88852 | 1.00 | 4.00 |
| Weapon | Frigate | 12 | 3.0000 | .60302 | 2.00 | 4.00 |
| | MCMV | 4 | 2.7500 | .50000 | 2.00 | 3.00 |
| | MPCSS | 12 | 3.5833 | 90034 | 2.00 | 5.00 |
| | PC/OPV | 7 | 2.8571 | .69007 | 2.00 | 4.00 |
| | Total | 62 | 2.8710 | .87748 | 1.00 | 5.00 |
| Effectiveness | FAC M | 7 | 3.2857 | .48795 | 3.00 | 4.00 |
| Hull | Corvette | 20 | 3.4500 | .68633 | 2.00 | 4.00 |
| | Frigate | 12 | 3.5000 | .79772 | 2.00 | 5.00 |
| | MCMV | 4 | 3.7500 | .50000 | 3.00 | 4.00 |
| | MPCSS | 12 | 3.5000 | 1.16775 | 1.00 | 5.00 |
| | PC/OPV | 7 | 3.7143 | .48795 | 3.00 | 4.00 |
| | Total | 62 | 3.5000 | .76287 | 1.00 | 5.00 |

Table 5A-5 Effectiveness – Number of Ships Served

Descriptives Statistics

| | | N | | Std. | Minimum | Maximum |
|---------------|---------|----|--------|-----------|---------|---------|
| | | | | Deviation | | |
| Effectiveness | | 18 | 3.2222 | .80845 | 2.00 | 4.00 |
| Mechanical | 2 Ships | 16 | 3.4375 | .72744 | 2.00 | 5.00 |
| | 3 Ships | 18 | 3.6111 | .77754 | 2.00 | 5.00 |
| | 4 Ships | 7 | 2.7143 | .95119 | 1.00 | 4.00 |
| | 5 Ships | 2 | 4.0000 | .00000 | 4.00 | 4.00 |
| | 6 All | 1 | 2.0000 | | 2.00 | 2.00 |
| | Total | 62 | 3.3387 | .82866 | 1.00 | 5.00 |
| Effectiveness | 1 Ship | 18 | 3.2778 | .82644 | 2.00 | 4.00 |
| Electrical | 2 Ships | 16 | 3.3750 | .71880 | 2.00 | 5.00 |
| | 3 Ships | 18 | 3.5556 | .78382 | 2.00 | 5.00 |
| | 4 Ships | 7 | 2.7143 | .95119 | 1.00 | 4.00 |
| | 5 Ships | 2 | 4.0000 | .00000 | 4.00 | 4.00 |
| | 6 All | 1 | 5.0000 | | 5.00 | 5.00 |
| | Total | 62 | 3.3710 | .83438 | 1.00 | 5.00 |
| Effectiveness | 1 Ship | 18 | 2.6667 | .84017 | 1.00 | 4.00 |
| Electronic & | 2 Ships | 16 | 2.8750 | .88506 | 1.00 | 4.00 |
| Weapon | 3 Ships | 18 | 3.1667 | .78591 | 2.00 | 5.00 |
| | 4 Ships | 7 | 2.4286 | .78680 | 1.00 | 3.00 |
| | 5 Ships | 2 | 2.5000 | .70711 | 2.00 | 3.00 |
| | 6 All | 1 | 5.0000 | | 5.00 | 5.00 |
| | Total | 62 | 2.8710 | .87748 | 1.00 | 5.00 |
| Effectiveness | 1 Ship | 18 | 3.6111 | .69780 | 2.00 | 5.00 |
| Hull | 2 Ships | 16 | 3.2500 | .77460 | 2.00 | 5.00 |
| | 3 Ships | 18 | 3.6667 | .68599 | 2.00 | 5.00 |
| | 4 Ships | 7 | 3.5714 | .53452 | 3.00 | 4.00 |
| | 5 Ships | 2 | 4.0000 | .00000 | 4.00 | 4.00 |
| | 6 Ali | 1 | 1.0000 | | 1.00 | 1.00 |
| | Total | 62 | 3.5000 | .76287 | 1.00 | 5.00 |

Table 5A-6 Overall Satisfaction of Customer on Effectiveness (Defect Rectification)

| | N | Minimum | Maximum | Mean | Std. Deviation |
|--|----|---------|---------|--------|----------------|
| Effectiveness of Hull Defect Rectification | 62 | 1.00 | 5.00 | 3.5000 | .76287 |
| Effectiveness of Mechanical Defect Rectification | 62 | 1.00 | 5.00 | 3.3387 | .82866 |
| Effectiveness of Electrical Defect Rectification | 62 | 1.00 | 5.00 | 3.3710 | .83438 |
| Effectiveness of Electronics and Weapon Defect Rectification | 62 | 1.00 | 5.00 | 2.8710 | .87748 |
| Total Effectiveness of Defect Rectification | 62 | 1.00 | 3.00 | 1.9677 | .82914 |
| Valid N (listwise) | 62 | | | 1 | |

Table 6 Descriptive Analysis For Each Variance On Customers -Ship Staff Involvement and Dependency

Table 6A-1 Ship Staff Involvement - Types of Ships Served

| _ | | | | |
|-----|-----|-----|------|---|
| Iλα | CCC | ınt | ives | ٠ |
| | | | | |

| | | N | Mean | Minimum | Maximum | Std. Deviation |
|----------------|-------------|----|--------|---------|---------|----------------|
| | | | | | | |
| Complain | 1= FAC M | 7 | 3.4286 | 1.00 | 5.00 | 1.27242 |
| , | 2= corvette | 20 | 3.5000 | 2.00 | 5.00 | 94591 |
| OSL Supplied | | 12 | 3.3333 | 2.00 | 4.00 | .65134 |
| | 4= MCMV | 4 | 3.7500 | 3.00 | 5.00 | 95743 |
| | 5= MPCSS | 12 | 3.2500 | 2.00 | 5.00 | 1.05529 |
| | 6= PC/OPV | 7 | 3.5714 | 3.00 | 5.00 | .78680 |
| | Total | 62 | 3.4355 | 1.00 | 5.00 | 91653 |
| Complain | 1= FAC M | 7 | 3.2857 | 1.00 | 5.00 | 1.25357 |
| | 2= corvette | 20 | 3.0500 | 1.00 | 5.00 | 1.27630 |
| OSL Supplied | | 12 | 3.0000 | 1.00 | 5.00 | 1.04447 |
| | 4= MCMV | 4 | 3.7500 | 3.00 | 5.00 | .95743 |
| | 5= MPCSS | 12 | 2.9167 | 2.00 | 5.00 | .90034 |
| | 6= PC/OPV | 7 | 2.4286 | 1.00 | 4.00 | 1.13389 |
| | Total | 62 | 3.0161 | 1.00 | 5.00 | 1.12340 |
| Ship Staff | 1= FAC M | 7 | 3.8571 | 1.00 | 5.00 | 1.46385 |
| | 2= corvette | 20 | 4.0500 | 1.00 | 5.00 | 1.23438 |
| Delay of | 3= frigate | 12 | 4.2500 | 3.00 | 5.00 | .86603 |
| Spare Deliver | 4= MCMV | 4 | 4.2500 | 3.00 | 5.00 | .95743 |
| | 5= MPCSS | 12 | 4.1667 | 2.00 | 5.00 | 1.02986 |
| | 6= PC/OPV | 7 | 4.0000 | 3.00 | 5.00 | .57735 |
| | Total | 62 | 4.0968 | 1.00 | 5.00 | 1.05130 |
| Ship Staff | 1= FAC M | 7 | 3.5714 | 3.00 | 4.00 | .53452 |
| Required to | 2= corvette | 20 | 3.8000 | 2.00 | 5.00 | .95145 |
| Identify Spare | 3= frigate | 12 | 3.8333 | 3.00 | 5.00 | .57735 |
| | 4= MCMV | 4 | 3.7500 | 3.00 | 5.00 | .95743 |
| | 5= MPCSS | 12 | 3.7500 | 2.00 | 5.00 | .86603 |
| | 6= PC/OPV | 7 | 3.2857 | 3.00 | 4.00 | .48795 |
| | Total | 62 | 3.7097 | 2.00 | 5.00 | .77644 |
| Ship Staff | 1= FAC M | 7 | 4.1429 | 3.00 | 5.00 | .69007 |
| Assist base | 2= corvette | 20 | 4.1500 | 2.00 | 5.00 | .98809 |
| staff | 3= frigate | 12 | 3.8333 | 2.00 | 5.00 | .93744 |
| | 4= MCMV | 4 | 4.0000 | 3.00 | 5.00 | .81650 |
| | 5= MPCSS | 12 | 4.0833 | 2.00 | 5.00 | .99620 |
| | 6= PC/OPV | 7 | 3.8571 | 2.00 | 5.00 | 1.06904 |
| <u> </u> | Total | 62 | 4.0323 | 2.00 | 5.00 | .92271 |
| Ship Staff | 1= FAC M | 7 | 3.8571 | 3.00 | 5.00 | .69007 |
| | 2= corvette | 20 | 4.1500 | 3.00 | 5.00 | .74516 |
| to Refer | 3= frigate | 12 | 3.9167 | 3.00 | 5.00 | .66856 |
| | 4= MCMV | 4 | 3.7500 | 3.00 | 4.00 | .50000 |
| | 5= MPCSS | 12 | 3.6667 | 3.00 | 5.00 | .65134 |
| | 6= PC/OPV | 7 | 4.2857 | 4.00 | 5.00 | .48795 |
| 1 | Total | 62 | 3.9677 | 3.00 | 5.00 | .67673 |

Table 6A-2 Ship Staff Dependency of Base Support – Type of Ship Served

| | | N | Mean | Minimum | Maximum | Std. Deviation |
|---------------|-------------|----|--------|---------|---------|----------------|
| Follow | 1= FAC M | 7 | 4.4286 | 4.00 | 5.00 | .53452 |
| Storedem | 2= corvette | 20 | 3.9000 | 2.00 | 5.00 | .91191 |
| | 3= frigate | 12 | 4.0000 | 3.00 | 5.00 | .85280 |
| | 4= MCMV | 4 | 4.5000 | 4.00 | 5.00 | .57735 |
| | 5= MPCSS | 12 | 3.9167 | 3.00 | 5.00 | .79296 |
| | 6= PC/OPV | 7 | 4.1429 | 3.00 | 5.00 | .69007 |
| | Total | 62 | 4.0484 | 2.00 | 5.00 | .79810 |
| Ship Staff | 1= FAC M | 7 | 3.7143 | 3.00 | 4.00 | .48795 |
| Managed | 2= corvette | 20 | 3.6000 | 2.00 | 5.00 | .75394 |
| Defect Using | 3= frigate | 12 | 3.8333 | 3.00 | 5.00 | .71774 |
| OSL | 4= MCMV | 4 | 3.7500 | 3.00 | 4.00 | .50000 |
| | 5= MPCSS | 12 | 3.6667 | 2.00 | 5.00 | .77850 |
| | 6= PC/OPV | 7 | 4.1429 | 3.00 | 5.00 | .69007 |
| | Total | 62 | 3.7419 | 2.00 | 5.00 | .69978 |
| Ship Staff | 1= FAC M | 7 | 4.0000 | 3.00 | 5.00 | .57735 |
| Respond to | 2= corvette | 20 | 3.6500 | 2.00 | 5.00 | 1.08942 |
| URDEF | 3= frigate | 12 | 4.0000 | 2.00 | 5.00 | .95346 |
| within Ship | 4= MCMV | 4 | 3.7500 | 3.00 | 4.00 | .50000 |
| Capability | 5= MPCSS | 12 | 4.0000 | 2.00 | 5.00 | 1.04447 |
| | 6= PC/OPV | 7 | 3.5714 | 3.00 | 4.00 | .53452 |
| | Total | 62 | 3.8226 | 2.00 | 5.00 | .91480 |
| Ship Staff | 1= FAC M | 7 | 2.7143 | 2.00 | 3.00 | .48795 |
| Rely on Base | 2= corvette | 20 | 2.7500 | 1.00 | 4.00 | .78640 |
| Staff For | 3= frigate | 12 | 3.0833 | 2.00 | 5.00 | .90034 |
| Defect | 4= MCMV | 4 | 3.0000 | 3.00 | 3.00 | .00000 |
| Rectification | 5= MPCSS | 12 | 3.0000 | 2.00 | 5.00 | 1.12815 |
| | 6= PC/OPV | 7 | 2.5714 | 2.00 | 4.00 | .78680 |
| | Total | 62 | 2.8548 | 1.00 | 5.00 | .82674 |

QUESTIONNAIRE FOR RESEARCH ON LOGISTICS SUPPORT SYSTEM AND ITS EFFECTIVENESS IN SUPPORTING AND MAINTAINING A MISSION READY FLEET IN THE ROYAL MALAYSIAN NAVY

Purpose of the Research

- 1. The general purpose of this study is to determine the **perception** of RMN fleet officers on the **effectiveness** of RMN logistics support system in supporting and maintaining RMN fleet at the mission ready state. In defining the limits of this study, IPDA/UM identified the title of the study areas to be addressed. Based on the title given, a detail review has been made leading to the development of the following specific **research objectives**:
 - a. To assess the effectiveness, deficiency and areas for improvement of the RMN logistics support system through the RMN fleet officers' perspective.
 - b. To **determine** the RMN fleet officers' awareness of RMN logistics support system.
 - c. To **determine** the needs of clients, which is the fleet.
 - d. To **recommend** changes to the RMN Logistics Support System based on the data analysis and related findings.

Guide on Answering the Questions

- 2. Respondents involved in this study are requested to provide their answers in the most transparent and sincere way possible in order to reflect the true situation and hence allow the researchers to recommend appropriate actions for consideration by the higher authority. There is no right or wrong answers. Respondents should not spend too much time in addressing the questions.
- 3. The questionnaire consist of 4 parts (Part I Awareness, Part II Effectiveness and Efficiency, Part III Recommendations and Part IV Service/Experience Onboard). Respondents are required to answer all parts. For Part III, a **NIL** remarks is required to indicate that respondent do not have any recommendation. Additional A4 paper may be use for recommendations where a point form answers is much appreciated.

Conclusion

4. Your participation is much appreciated. Thank you.

PART I - AWARENESS OF RMN LOGISTICS SUPPORT SYSTEM

THE FOLLOWING ARE STATEMENTS REGARDING YOUR AWARENESS OF RMN LOGISTICS SUPPORT SYSTEM. PLEASE INDICATE THE EXTENT TO WHICH YOU ARE AWARE OF THE SYSTEM BY CIRCLING THE APPROPRIATE NUMBER AGAINST EACH STATEMENT USING THE FOLLOWING SCALES:

| 1 | Not aware at all |
|---|-----------------------------------|
| 2 | Quite aware but not knowledgeable |
| 3 | Just Aware |
| 4 | Aware and knowledgeable |
| 5 | Very much aware and conversant |

| | 1. | Are you aware | of the overall | RMN logistics | support system? |
|--|----|---------------|----------------|----------------------|-----------------|
|--|----|---------------|----------------|----------------------|-----------------|

1 2 3 4 5

2. Are you aware of how RMN logistics support system works?

1 2 3 4 5

3. Are you aware of how the procurement process of spares is made in the RMN?

1 2 3 4 5

4. Are you aware of how initial carried onboard spares list is formulated?

1 2 3 4 5

5. Are you aware of the demand process for spares in supply depots?

1 2 3 4 5

6. Are you aware of how spares are delivered to you when a demand is made?

1 2 3 4 5

7. Are you aware of the procedures for ship undergoing Assisted Maintenance Period/Self Maintenance Period?

1 2 3 4 5

| 8. | Are you | awar | e of | the | procedures for ship undergoing emergency docking? |
|----------------|-----------------------|-------|------|-------|--|
| | 1 | 2 | 3 | 4 | 5 |
| 9. | Are you | awar | e of | the | procedures for ship undergoing Refit/Slipping? |
| | 1 | 2 | 3 | 4 | 5 |
| 10. Refit/S | Are you 3lipping/[| | e of | the | defect list production (SDL and AKDL) for |
| | 1 | 2 | 3 | 4 | 5 |
| 11. Refit/S | Are you Slipping/[| | e of | the | spares requirement when ship undergoing for |
| | 1 | 2 | 3 | 4 | 5 |
| 12. | Are you | awar | e of | the | Five Years Base Spares? |
| | 1 | 2 | 3 | 4 | 5 |
| 13. | Are you | awar | e of | the | Squadron Support Concept? |
| | 1 | 2 | 3 | 4 | 5 |
| 14. | Are you | ı awa | re o | f the | e requirement of carried onboard spares (OSL)? |
| | 1 | 2 | 3 | 4 | 5 |
| 15. at sea | | awar | e of | deli | very process of spares for RMN ships in operations |
| | 1 | 2 | 3 | 4 | 5 |
| 16. | Are you | awar | e of | Inte | egrated Logistic Support concept (ILS) ? |
| | 1 | 2 | 3 | 4 | 5 |
| 17. | Are you | awar | e of | ILS | concept implementation in RMN? |
| | 1 | 2 | 3 | 4 | 5 |
| | | | | | |

18. Are you aware of the **mechanism** of logistics support (replenishment of POL, ration, refuelling, ammunitioning, medical assistance and repairs) for operational ships at sea.

1 2 3 4 5

PART II - EFFECTIVENESS/EFFICIENCY IN THE RMN LOGISTICS SUPPORT SYSTEM

THE FOLLOWING ARE SOME **ASPECTS** CONCERNING YOUR SATISFACTION OR DISSATISFACTION WITH THE PRESENT RMN LOGISTICS SUPPORT SYSTEM. PLEASE INDICATE YOUR LEVEL OF SATISFACTION OR DISSATISFACTION WITH EACH OF THE STATEMENT USING THE FOLLOWING SCALE. EFFICIENTLY SHALL BE ASSESSED WITH RESPECT TO THE SPEED OF ACTION (EXAMPLE: RESPONSE TIME AND FAULT FINDING TIME) AND EFFECTIVELY WITH RESPECT TO QUALITY OF JOB DONE (EXAMPLE: DONE RIGHT THE FIRST TIME).

| 1 | Very Dissatisfied |
|---|------------------------------------|
| 2 | Dissatisfied |
| 3 | Neither Satisfied nor Dissatisfied |
| 4 | Satisfied |
| 5 | Very satisfied |

1. Are the mechanical breakdowns of your ship(s) efficiently rectified?

1 2 3 4 5

2. Are the mechanical breakdowns of your ship(s) effectively rectified?

1 2 3 4 5

3. Are the electrical breakdowns of your ship(s) efficiently rectified?

1 2 3 4 5

4. Are the electrical breakdowns of your ship(s) effectively rectified?

1 2 3 4 5

5. Are electronics and weapon system/mission related breakdowns of your ship(s) efficiently rectified?

1 2 3 4 5

| 6. of you | Are ele ur ship(s) | | | | | eapon system/mission related equipment breakdowns ctified? |
|--------------|-----------------------|------|------|------|------|--|
| | | 1 | 2 | 3 | 4 | 5 |
| 7. | Are hul | l re | epai | rs o | n yo | our ship(s) efficiently rectified? |
| | | 1 | 2 | 3 | 4 | 5 |
| 8. | Are hul | l re | epai | rs o | n yo | our ship(s) effectively rectified? |
| | | 1 | 2 | 3 | 4 | 5 |

THE FOLLOWING STATEMENTS DESCRIBE YOUR SHIP'S STAFF INVOLVEMENT IN ENSURING YOUR SHIP IS AT ITS HIGHEST MISSION READY STATE WITH THE PRESENT RMN LOGISTICS SUPPORT SYSTEM. PLEASE STATE YOUR ASSESSMENT BY MARKING (X) IN THE APPROPRIATE SPACES ON THE SCALE.

9. Your staff do follow-up for spares demanded.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

10. Your staff knew where to refer in assessing a defect.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

11. Your staff managed to repair defects using carried onboard spares.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

12. Your staff complained on insufficient quantity of carried onboard spares demanded from/issued by FSD.

Never
$$\frac{1}{2} = \frac{3}{3} = \frac{4}{5}$$
 Constantly

13. Your staff complained on the quality of carried onboard spares issued.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

14. Your staff required to identify spares prior to issue.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

15. Your staff assisted base staff to execute repair.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

16. Your staff complained delays in the delivery of spares.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

17. Your staff responded on the defect rectification of URDEF within their capabilities.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

18. Your staff relied on base staff support on defect rectification.

Never
$$\frac{}{}$$
 $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ Constantly

PART III. RECOMMENDATION.

PLEASE STATE YOUR RECOMMENDATION(S) TO IMPROVE RMN LOGISTICS SUPPORT SYSTEM IN ORDER TO INCREASE ITS EFFECTIVENESS IN PREPARING A HIGH MISSION READY FLEET. THE STATEMENTS BELOW IS INTENDED TO ASSIST YOU.

Present RMN Logistics Support System is efficient and effective. However

| the following areas need some improvements. (State the areas of concerned and your recommendation. It should be in line with your answers in the previous questions). Additional A4 page may be used. A NIL remark is required to indicate that respondent do not have any recommendation. | | |
|---|--|--|
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page may be used. A NIL remark is required to indicate that respondent do not have any recommendation.

Present RMN Logistics Support System is not efficient at all. Ships that

are not mission capable are left idle (remain in operations capable only) for an extended period. The following are the **major areas** and some of the measures to rectify the situation. (State the areas of concerned and your recommendation. It should be in line with your answers in the previous questions). Additional A4

PART IV – SERVICE AND EXPERIENCE ONBOARD SHIP

F

| PLEASE CIRC | CLE THE ANSWER THAT DESCRIBE YOURSELF |
|-----------------------|---|
| served since | below are the periods of service onboard ship(s) that you have you were commissioned. What is the total period you served with you were commissioned in the RMN? |
| 2 3 | 3– 5 years 6 – 10 years 11 – 15 years 16 – 20 years |
| 2. What c | class of ship(s) have you served? |
| 2 3 4 5 6 | FAC (M) Corvette Frigate MCMV MPCSS Patrol All the above |
| 3. What is | s the class of your present ship? |
| 2 3 4 5 | FAC (M) Corvette Frigate MCMV MPCSS Patrol |
| 4. Your ra | ank is |
| 2 3 4 | Sub/Lt Lt Lt Cdr Cdr Captain |
| Your bi | ranch is |

5.

1 Executive 2 WE 3 ME 4 Supply