

# Monitoring Framework for Micronutrient Interventions

#### <u>Vitamin A – Supplementation</u>

|  | Question   | Indicator  | Data Collection<br>Method   | Who collects                           | Frequency of collection                               |
|--|--|--|---|--|---|
| Is the <u>intervention</u> functioning adequately? | Are supplementation protocols (preventive and treatment) in place and applied correctly?                       | Protocol procedures; Percentage of distribution and selling facilities applying protocol are correct (timing and dose)       | Site visit, interviews with staff, distributing facility survey, review protocol.                             | Ministry of<br>Health (MoH)            | Ongoing,<br>initial year;<br>then every 2-<br>years   |
|  | Is the supplement available in sufficient quantity: in the country and at distribution and selling facilities? | Distribution and selling facilities are receiving adequate supplement supply regularly and in time                           | Import records, MoH distribution records, stock and sales records, survey in distributing, selling facilities | МоН                                    | Semi-annual   |
|  | Is the quality of training/instructions to distributing staff on supplementation protocol adequate?            | Distribution staff has adequate knowledge of supplementation protocol  | Interviews, phased survey, site visits  | MoH, health<br>communication<br>expert | Initially semi-<br>annual; then<br>every 2–3<br>years |
|  | Is the communication of messages by distributing staff to the target population adequate?                      | Distributing staff provides correct instructions on supplementation to target population                                     | Interviews, phased<br>survey, (household)<br>survey, site visits,<br>observe service<br>delivery              | MoH, health communication expert       | Initially semi-<br>annual; then<br>every 2–3<br>years |
|  | Is the quality and effectiveness of communication activities adequate?   | Appropriateness of messages, materials and media; Target population has adequate knowledge on supplement use and its purpose | Interviews, phased (household) survey, focus group, site visits; review health communication plan             | MoH, health<br>communication<br>expert | Initially semi-<br>annual; then<br>every 2–3<br>years |

|   | Question   | Indicator   | Data Collection<br>Method  | Who collects                 | Frequency of collection                    |
|---|--|---|--|------------------------------|--|
| Is the intervention available, affordable, and acceptable to the target population? | Is the supplement available to the target population at distribution and selling facilities? | Target population has access to the supplements   | MoH distribution records, sales records, survey in distributing, selling facilities, health cards (household survey) | МоН                          | Semi-annual                                |
|   | Is the supplement affordable for the target population?                                      | Price of supplement, average income, perception of population   | Market survey, price of supplement, focus groups   | MoH, Ministry<br>of Commerce | Annual                                     |
|   | Is the supplement acceptable to the target population?                                       | Perception of vit A supplements among target population (1) know about it?; (2) beneficial, indifferent, harmful, other | Focus group, phased (household) survey   | МоН                          | Initially first year; then every 2–3 years |
| Is the intervention being <u>used</u> by the target population? (Coverage)          | Does the target population take the supplements in scheduled frequency and dose?             | Proportion of target population receiving supplements in correct dose and frequency, by region                          | Phased (household)<br>survey<br>Immunization/health<br>cards, clinic records   | МоН                          | Every 2–3<br>years                         |

### <u>Vitamin A – Fortification</u>

|  | Question   | Indicator  | Data Collection<br>Method   | Who collects   | Frequency of collection                            |
|--|--|--|---|--|--|
| Is the <u>intervention</u> functioning adequately? | Is fortified food available in sufficient quantity?                    | Amount fortified food produced/imported/exported and distributed within the country  | Reports (Industry production records, sales data; Import/export records)  | Fortified food<br>companies<br>(producers,<br>importers,<br>distributors);<br>MoH, MoAgr | Beginning and<br>end of each<br>harvest season     |
|  |  | Amount of fortificant imported   | Routine reporting from customs and fortification producer   | Fortified food companies, MoH  | Before and during harvest season                   |
|  | Is the quality and effectiveness of communication activities adequate? | Appropriateness of messages;<br>materials and media;<br>percentage of target population with<br>adequate knowledge on importance<br>of fortification and its purpose | Interviews, phased (household) survey, focus group, site visits; review health communication plan and materials | MoH,<br>Universities,<br>media, health<br>communication<br>expert                        | Initially semi-<br>annual; then<br>every 2–3 years |
| Factory level -Internal monitoring-                | Is food fortified, labeled and packaged according to determined        | Fortified food samples/batches comply to national standards (within set range or above minimum level mg/Kg)  | Food analysis results,<br>QC charts, reports,<br>inspection forms   | Fortified food companies   | Continuous (each batch)                            |
|  | standards?   | QA and QC procedures for fortified food are in place   | Factory procedures manuals, QC and LQAS records, production records   | Fortified food companies   | Ongoing during harvest (even months)               |
|  |  | Labeling, packaging, and storage procedures and conditions are followed  | Factory procedures manuals and reports  | Fortified food companies   | Annual   |

|  | Question   | Indicator  | Data Collection<br>Method   | Who collects                                   | Frequency of collection  |
|--|--|--|---|--|--|
| Factory level<br>-External monitoring-   | Is food fortified, labeled, and packaged according to determined standards?          | Fortified food samples/batches comply to national standards (within set range or above minimum level mg/Kg)  | Random food samples<br>for analysis (factory &<br>gov. analysis reports,<br>fortification purchase)                                   | MoH, food<br>inspectors                        | 1–6 monthly<br>(depending on<br>gov. capacity and<br>experience with<br>company) |
|  |  | QA and QC procedures for fortified food are in place   | Inspection visit<br>(QA/QC plan &<br>reports)   | MoH, food inspectors                           | Annual   |
|  |  | Labeling, packaging, and storage procedures and conditions are followed  | Inspection visit,<br>factory procedures<br>manual   | MoH, food inspectors                           | 6–12 monthly (or once during harvest season)                                     |
| Wholesale and retail level => needed when vit.A content of food at household level does not meet standards <u>and</u> there is NO problem with fortification at production level | Is food fortified, packaged, stored, and transported according determined standards? | Stability of vitamin A in food. Packaging/repackaging materials used. Storage and transport facilities and procedures (First In First Out). Turn over time of fortified food (time between production and consumption) Fortified food samples/batches comply with national standards for vitamin A concentration at retail level | Market surveys and investigation of food samples, packaging and storage conditions of major wholesalers/retail outlets in the country | Food<br>companies,<br>MoH                      | When needed  |
| Household level  | Is the food fortified and at what level?   | Fortified food samples/batches comply to national standards at consumption level (within set range or above minimum level mg/Kg)   | School or household<br>survey; piggy back<br>with other survey;<br>surveillance (e.g.,<br>phased survey)                              | МоН  | Periodic (1st<br>year; then every<br>2-3 years),<br>ongoing                      |
| Is the intervention available, affordable and acceptable to the target population?   | Is vitamin A fortified food available to the target population: at sales point?      | Number of target population having access to vitamin A fortified food  | Situation analysis,<br>sales records by<br>geographic<br>distribution, market<br>survey, household<br>survey                          | Fortified food industry, MoH                   | Semiannually or annualy  |
|  | Is vitamin A fortified food affordable for the target population?                    | Price of fortified food as compared to non-fortified food  | Market survey, price of fortified food  | MoH, fortified<br>food industry,<br>MoCommerce | Annual   |

|   | Question  | Indicator   | Data Collection<br>Method  | Who collects       | Frequency of collection                          |
|---|---|---|--|--------------------|--|
|   | Is vitamin A fortified food acceptable to the target population?                        | Perception of vitamin A fortified food<br>among target population (1) know<br>about it? (2) beneficial, indifferent,<br>harmful, other  | Focus group, phased (household) survey                             | МоН                | Initially first year;<br>then every 2–3<br>years |
| Is the intervention being <u>used</u> by the target population? | What percentage of<br>the target population<br>consumes fortified<br>food regularly (by | Target population consuming fortified food regularly (number of times per week) Impression on level of consumption                      | Household survey Dietary assessment food frequency and focus group | MoH,<br>university | at baseline and<br>every 2 years                 |
| (Coverage)  | region/age group)   | (e.g., Percentage of families with children <5 and/or postpartum women regularly consuming (3/wk) sufficient amounts of fortified food) | <u> </u>   |                    |  |

## Vitamin A - Impact

|  | Question  | Indicator   | Population group   | Data<br>Collection<br>Method   | Who collects | Frequency of collection  |
|--|---|---|--|--|--------------|--|
| How has the micronutrient status improved in the population? | How has the vitamin A status improved in the target population? | Clinical: eye signs, night blindness  Biochemical: serum retinol, Retinol Binding Protein (RBP), retinyl esters in breastmilk  Indicators of infection (to assess the effect of infection on biochemical indicators of vitamin A status): | Night blindness: pregnant women, children 24–71 months  Serum retinol and RBP: infants and children 6–71 months  Breastmilk retinol: lactating mothers | Household<br>surveys<br>Mini surveys<br>Clinic based<br>data<br>Surveillance | МоН          | At baseline and after4 or 5 years Routine monitoring (sentinel site survey) Ongoing (surveillance) |

| Question | Indicator  | Population group | Data<br>Collection<br>Method | Who collects | Frequency of collection |
|----------|--|------------------|------------------------------|--------------|-------------------------|
|          | α1-acid glycoprotein (AGP), C-reactive protein (CRP) |                  |                              |              |                         |

### <u>Iron – Supplementation</u>

|  | Question  | Indicator  | Data Collection<br>Method   | Who collects                     | Frequency of collection                               |
|--|---|--|---|----------------------------------|---|
| Is the <u>intervention</u> functioning adequately?                                 | Are supplementation protocols (treatment, prevention; universal, targeted; daily, weekly) in place and applied correctly? | Protocol procedures; Distribution and selling facilities are applying protocol correctly (timing and dose)                   | Site visit, interviews with staff, distributing facility survey, review protocol.                                     | МоН                              | On-going,<br>initial year,<br>then every 2<br>years   |
|  | Is the supplement available in sufficient quantity? — the country and at distributing, selling facilities?                | Imported as percentage; Distribution and selling facilities are receiving adequate supplement supply regularly and in time   | Import records, MoH distribution records, stock and sales records, survey in distributing, selling facilities         | МоН                              | Semiannual  |
|  | Is the quality of training/instructions to distributing staff on supplementation protocol adequate?                       | Distribution staff has adequate knowledge of supplementation protocol  | Interviews, phased survey, site visits  | MoH, health communication expert | Initially semi-<br>annual; then<br>every 2–3<br>years |
|  | Is the communication of messages by distributing staff to the target population adequate?                                 | Distribution staff provides correct instructions on supplementation to target population                                     | Interviews, phased<br>survey, household<br>survey, site visits,<br>observation of service<br>delivery                 | MoH, health communication expert | Initially semi-<br>annual; then<br>every 2–3<br>years |
|  | Is the quality and effectiveness of communication activities adequate?  | Appropriateness of messages, materials and media; Target population has adequate knowledge on supplement use and its purpose | Interviews, phased (household) survey, focus group, site visits; review health communication plan                     | MoH, health communication expert | Initially semi-<br>annual; then<br>every 2–3<br>years |
| Is the intervention available, affordable and acceptable to the target population? | Is the supplement available to the target population: at distributing and selling facilities?                             | Target population has access to the supplements  | MoH distribution records, sales records, survey in distributing, selling facilities, health cards, (household survey) | МоН                              | Semiannual  |

|  | Question   | Indicator   | Data Collection<br>Method  | Who collects       | Frequency of collection                    |
|--|--|---|--|--------------------|--|
|  | Is the supplement affordable for the target population?                          | Price of supplement, average income, perception of population                                   | Market survey, price of supplement, focus groups                             | MoH,<br>MoCommerce | Annual                                     |
|  | Is the supplement acceptable to the target population?                           | Perception of iron supplements among target population: beneficial, indifferent, harmful, other | Focus group, phased (household) survey                                       | МоН                | Initially first year; then every 2–3 years |
|  | Do people accept preventive (as opposed to curative) iron supplementation?       | Perception among target population  | Focus group, phased (household) survey                                       | МоН                | Initially first year; then every 2–3 years |
| Is the intervention being <u>used</u> by the target population? (Coverage) | Does the target population take the supplements in scheduled frequency and dose? | Proportion of target population receiving supplements in correct dose and frequency, by region  | Phased (household)<br>survey<br>Immunization/health<br>cards, clinic records | МоН                | Every 2–3<br>years                         |

### <u>Iron – Fortification</u>

|  | Question   | Indicator   | Data Collection<br>Method   | Who collects   | Frequency of collection                            |
|--|--|---|---|--|--|
| Is the <u>intervention</u> functioning adequately? | Is fortified food available in sufficient quantity?                      | Amount of fortified food produced/imported/exported and distributed within the country  | Reports (Industry production records, sales data; Import/export records)  | Fortified food<br>companies<br>(producers,<br>importers,<br>distributors);<br>MoCommerce | Ongoing  |
|  |  | Amount of fortified food produced/imported/exported and distributed within the country  | Routine reporting from customs and fortificant producer   | Fortified food companies, MoH  | Every 6–12<br>months                               |
|  | Is the quality and effectiveness of communication activities adequate?   | Appropriateness of messages;<br>materials and media;<br>Target population has adequate<br>knowledge on importance of<br>fortification and its purpose | Interviews, phased (household) survey, focus group, site visits; review health communication plan and materials | MoH,<br>universities,<br>media, health<br>communication<br>expert                        | Initially semi-<br>annual; then<br>every 2–3 years |
| Factory level -Internal monitoring-                | Is food fortified,<br>labeled and packaged<br>according to<br>determined | Fortified food samples/batches comply to national standards (within set range or above minimum level mg/Kg)   | Food analysis results,<br>QC charts, reports,<br>inspection forms   | Fortified food companies   | Continuous (each batch)                            |
|  | standards?   | QA and QC procedures for fortified food are followed  | Factory procedures manuals, QC and LQAS records, production records   | Fortified food companies   | Ongoing; then every 3 months                       |
|  |  | Labeling, packaging, and storage procedures and conditions are followed   | Factory procedures manuals and reports  | Fortified food companies   | Annual   |

|  | Question   | Indicator   | Data Collection<br>Method  | Who collects                             | Frequency of collection  |
|--|--|---|--|--|--|
| Factory level<br>-External monitoring-   | Is food fortified,<br>labeled and packaged<br>according to<br>determined<br>standards? | Fortified food samples/batches comply to national standards (within set range or above minimum level mg/Kg)  QA and QC procedures for fortified   | Random food samples<br>for analysis (factory<br>and gov. analysis<br>reports, fortification<br>purchase) Inspection visit              | MoH, food inspectors  MoH, food          | 1–6 monthly<br>(depending on<br>gov. capacity and<br>experience with<br>company) |
|  |  | Labeling, packaging and storage procedures and conditions are followed  | (QA/QC plan & reports) Inspection visit, factory procedures manual   | MoH, food inspectors                     | Every 6–12<br>months   |
| Wholesale and retail level => needed when iron content of food at household level does not meet standards and there is NO problem with fortification at production level | Is food fortified, packaged, stored and transported according determined standards?    | Stability of iron in food. Packaging/repackaging materials used. Storage and transport facilities and procedures (First In First Out). Turn over time of fortified food (time between production and consumption) Fortified food samples/batches comply with national standards for vitamin A concentration at retail level | Market surveys and investigation of food samples, packaging and storage conditions of major wholesalers/ retail outlets in the country | Food<br>companies,<br>MoH                | When needed  |
| Household level  | Is the food fortified and at what level?   | Fortified food samples/batches comply to national standards at consumption level (within set range or above minimum level mg/Kg)  | School or household<br>survey; piggy back<br>with other survey;<br>surveillance (e.g.,<br>phased survey)                               | МоН                                      | Periodic (1st year,<br>then 2–3 yearly),<br>ongoing                              |
| Is the intervention available, affordable and acceptable to the target population?   | Is iron fortified food available to the target population: at sales point?             | Target population has access to iron fortified food   | Situation analysis,<br>sales records by<br>geographic<br>distribution, market<br>survey, household<br>survey                           | Fortified food industry, MoH             | Semiannually or annualy  |
|  | Is iron fortified food affordable for the target population?                           | Price of fortified food as compared to non-fortified food   | Market survey, price of fortified food   | MoH, fortified food industry, MoCommerce | Annual   |

|   | Question   | Indicator  | Data Collection<br>Method  | Who collects       | Frequency of collection                          |
|---|--|--|--|--------------------|--|
|   | Is iron fortified food acceptable to the target population?  | Perception of iron fortified food among target population (1) know about it? (2) beneficial, indifferent, harmful, other   | Focus group, phased (household) survey                             | МоН                | Initially first year;<br>then every 2–3<br>years |
| Is the intervention being <u>used</u> by the target population?  (Coverage) | What percentage of<br>the target population<br>consumes fortified<br>food regularly (by<br>region/age group) | Target population consuming fortified food regularly (X times per week) Impression on level of consumption (e.g., Percentage of families with children <5 and/or postpartum women regularly consuming (3/wk) | Household survey Dietary assessment food frequency and focus group | MoH,<br>university | at baseline and<br>every 2 years                 |
|   |  | women regularly consuming (3/wk) sufficient amounts of fortified food)   |  |                    |  |

### **Iron - Impact**

|  | Question   | Indicator   | Population group   | Data<br>Collection<br>Method                                 | Who collects | Frequency of collection  |
|--|--|---|--|--|--------------|--|
| How has the micronutrient status improved in the population? | How has the iron status improved in the target population? | Biochemical: -Hemoglobin -Ferritin -Transferrin receptor -Zinc protoporphyrin | Non-pregnant women of reproductive age (18–45) Adolescent males/females Men (18–45) Infants and preschool children (6–12; 12–35; 36–59 months) | Household<br>surveys<br>Mini surveys<br>Clinic based<br>data | МоН          | At baseline and possibly 4 or 5 years after fortification program is well established (i.e., number of years after achieving min. coverage of X%) Routine monitoring (sentinel site survey) Ongoing (surveillance) |

| Question  | Indicator  | Population group   | Data<br>Collection<br>Method                                 | Who collects | Frequency of collection   |
|---|--|--|--|--------------|---|
| How have other factors that affect iron status changed? | Diet: -iron intake -iron absorption enhancers (meat, vit. C) and inhibitors (tea)  Socioeconomic indicators  Programmatic indicators (if applicable): -Prevention/treatment of lead poisoning -vit A supplementation -improved breastfeeding -improved child spacing -changes in prevalence of other micronutrient deficiencies (vit B12, folate) -prevention/treatment of infections (malaria, parasites, hookworm) | Non-pregnant women of reproductive age (18–45) Adolescent males/females Men (18–45) Infants and preschool children (6–12; 12–35; 36–59 months) | Household<br>surveys<br>Mini surveys<br>Clinic based<br>data | MoH          | At baseline and possibly 4 or 5 years after fortification program is well established (i.e., X years after achieving min. coverage of X%) Routine monitoring (sentinel site survey) |

#### <u>**Iodine – Fortification**</u>

|  | Question   | Indicator   | Data Collection<br>Method   | Who collects  | Frequency of collection  |
|--|--|---|---|---|--|
| Is the <u>intervention</u> functioning adequately? | Is iodized salt available in sufficient quantity?                      | Amount of non-iodized and iodized food grade salt produced/imported/ exported and distributed in the country (crude and per capita) | Salt industry production records Customs and salt industry/distributers reports on imports and exports Sales data | Salt producers/<br>importers/distri<br>butors<br>MoH,<br>MoIndustry | Quarterly initially,<br>then; every<br>6–12 months             |
|  |  | Amount of fortified food or salt imported   | Routine reports from Customs, fortification supplier and salt industry.   | Salt producers<br>MoH   | Every 6–12<br>months<br>depending on<br>frequency of<br>import |
|  | Is the quality and effectiveness of communication activities adequate? | Appropriateness of messages, materials and media used; Target population has adequate knowledge on importance of using iodized salt | Interviews, phased (household) survey, focus group, site visits; review communication plan and materials          | MoH,<br>universities,<br>media and<br>communication<br>experts      | Initially semi-<br>annual; then<br>every 2–3 years             |
| Factory level -<br>-Internal monitoring-           | Is iodized salt labeled and packaged according to determined           | Iodized salt samples/batches complying to national standards (within set range or above minimum level mg/Kg)                        | Salt analysis results ,<br>QC and LQAS records,<br>inspection feedback<br>forms                                   | Salt producers/<br>importers  | Continuous (each batch)  |
|  | standards?   | QA and QC procedures for salt iodization are followed   | Factory procedures manual, QC and LQAS records and charts, production records                                     | Salt producers/<br>importers  | Every 3 months   |
|  |  | Labeling, packaging and storage procedures and conditions are followed  | Factory procedures manuals and reports  | Salt producers/<br>importers  | Annually   |

|   | Question   | Indicator  | Data Collection<br>Method   | Who collects   | Frequency of collection  |
|---|--|--|---|--|--|
| Factory level<br>-External monitoring-  | Is food fortified, labeled and packaged according to determined standards?           | Iodized salt samples/batches complying to national standards (within set range or above minimum level mg/Kg)   | Random salt samples<br>for analysis (factory &<br>gov. analysis reports,<br>fortificant purchase)   | MoH, food<br>inspectors                                  | Every 1–6 months (depending on gov. capacity and experience of QC/product reliability) |
|   |  | QA and QC procedures for salt iodisation are followed  | Inspection visit;<br>QA/QC plan & reports   | MoH, food inspectors                                     | Every 6–12<br>months<br>depending on<br>progamme status                                |
|   |  | Labeling, packaging and storage procedures and conditions are followed   | Inspection visit;<br>factory procedures<br>manuals and reports  | MoH, food inspectors                                     | Annual   |
| Wholesale and retail level => needed when iodine content of salt at household level does not meet standards <u>and</u> there is NO problem with fortification at production level | Is iodized salt packaged, stored, and transported according to determined standards? | Iodine stability in salt. Packaging/repackaging materials used. Storage and transport facilities and procedures (First In First Out, turn over time). Salt samples/batches comply with national standards for iodine concentration at retail level | Market surveys & random investigation of salt iodization levels, packaging and storage conditions at major wholesalers/ retail outlets in the country | Salt<br>distribution<br>companies,<br>MoH                | When needed  |
| Household level   | Is the salt iodized and at appropriate level?  | Salt samples comply with national standards for iodine concentration at household level  | School or household<br>survey; piggy back<br>with other survey  | МоН  | Periodic (1st year,<br>then 2–3 yearly),<br>ongoing                                    |
| Is the intervention available, affordable and acceptable to the population?   | Is iodized salt available to the target population?                                  | Number of households with access to iodized salt   | Situation analysis, sales records by geographic distribution, market survey. Results of household coverage surveys                                    | Salt producers/<br>importers and<br>distributors,<br>MoH | Semiannually or annually   |
|   | Is iodized salt affordable for the population?                                       | Price of iodized salt compared to non-iodized salt   | Market survey, price listings (if relevant) of iodised and noniodised salt  | MoH,<br>MoCommerce,<br>salt industry                     | Annual   |

|  | Question   | Indicator   | Data Collection<br>Method                                  | Who collects                    | Frequency of collection   |
|--|--|---|--|---------------------------------|---|
|  | Is iodized salt acceptable to the population?                        | Perception of iodized salt among the population and awareness of its existence and benefits or misconceptions regarding its use | Focus groups, phased (household) survey                    | МоН                             | Initially first year;<br>then every 2–3<br>years                  |
| Is the intervention being <u>used</u> by the population?  (Coverage) | What percentage of households use iodized salt (by region/age group) | Number of households in which only iodized salt is available.   | Household/school<br>survey; piggy back on<br>other surveys | MoH,<br>university,<br>MICS/DHS | At baseline and<br>every 2 years<br>Or ongoing "mini-<br>surveys" |

#### **Iodine - Impact**

|  | Question  | Indicator  | Population group   | Data<br>Collection<br>Method                                 | Who collects | Frequency of collection   |
|--|---|--|--|--|--------------|---|
| How has the micronutrient status improved in the population? | How has the iodine status improved in the population? | Biochemical: Urinary iodine excretion (UIE),  Neonatal TSH (if screening programme for hypothyroidism already in place)  Clinical: Total goitre rate (TGR) (not a sensitive marker of impact, especially in early years of the intervention) | For UIE — any group aged 3 or older. Usually school age children (6–12 years old) or women of reproductive age.  For TSH – neonates  For TGR – children 6–12 years old | Household<br>surveys<br>Mini surveys<br>Clinic based<br>data | МоН          | At baseline and possibly after 4 or 5 years Routine monitoring, sentinel site survey Ongoing surveillance |

The Monitoring Frameworks were developed by Arnold Timmer and Jacky Knowles.

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