





# EFFECTIVENESS OF NUTRITION INTERVENTIONS IN LOW AND MIDDLE-INCOME COUNTRIES: AN EVIDENCE SUMMARY

PROTOCOL, JULY 2016

## The authors of this report are:

Dileep Mavalankar, MD, DrPH
 Director, & Vice-president (Western region), Indian Institute of Public Health
 Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

#### 2. Shuby Puthussery, DrPH

Senior Lecturer in Public Health, Department of Clinical Education and Leadership & Institute for Health Research, University of Bedfordshire, Bedfordshire, UK

## 3. Kavitha Menon, PhD

Associate Professor, Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

## 4. Ritu Rana, PhD

Assistant Professor, Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

## 5. Janine Bhandol, MCLIP

Librarian, University of Bedfordshire, Bedfordshire, UK

#### 6. Sabuj Kanti Mistry, MPH

Senior Research Associate, Research and Evaluation Division, BRAC Centre, Dhaka, Bangladesh

## 7. Anal Ravalia, BAMS, MSc

Programme Assistant, Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

## 8. Pei-Ching Tseng, MSc

Research Assistant, Department of Clinical Education and Leadership & Institute for Health Research, University of Bedfordshire, Bedfordshire, UK

## 9. Pooja Panchal, MSc

Research Assistant, Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

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#### LIST OF ABBREVIATION

BMGF Bill and Melinda Gates Foundation

BMI Body Mass Index

BRAC Bangladesh Rehabilitation Assistance Committee

CINI Child in Need Institute

DFID The Department for International Development FANTA Food and Nutrition Technical Assistance Project

FAO Food and Agriculture Organization of the United Nations

FHI360 Family Health International

FNB Food and Nutrition Bulletin

GAIN Global Alliance for Improved Nutrition

GNR Global Nutrition Report

ICCIDD International Council for Control of Iodine Deficiency Disorders

IDA Iron Deficiency Anaemia

IDS Institute of Development Studies

IFPRI International Food Policy Research Institute

LANSA Leveraging Agriculture for Nutrition in South Asia

LMICs Low and Middle Income Countries

MDGs Millennium Development Goals

MI Micronutrient Initiative

MoH Ministry of Health

RUTF Ready to Eat Therapeutic Foods

SAM Severe Acute Malnutrition

SDGs Sustainable Development Goals

SPRING The Strengthening Partnerships Results and Innovations in Nutrition Globally Project

SR Systematic Review

SUN Scaling Up Nutrition

TN Transform Nutrition

UNICEF United Nations Children's Emergency Fund

USAID United States Agency for International Development

WFP World Food Programme

WHO World Health Organization

WHZ Weight for Height Z scores

#### 1 BACKGROUND

## 1.1 Description of the problem

Undernutrition remains as an unfinished agenda for the majority of low and middle-income countries (LMICs). The UNICEF defined undernutrition as the outcome of insufficient food intake and repeated infectious diseases. It includes being underweight for one's age, too short for one's age (stunted), dangerously thin for one's height (wasted) and deficient in vitamins and minerals (micronutrient malnutrition) (UNICEF, 1990).

The prevalence of undernutrition cuts across the different segments of populations and the vulnerable groups exposed to different levels of undernutrition include children, adolescent girls, women of reproductive age, elderly and socioeconomically disadvantaged groups. These vulnerable groups from LMICs have higher prevalence of undernutrition that manifest as moderate to severe forms. Globally around 165 million children under the age of five suffer from stunting (low height-for-age), 101 million are underweight (low weight-for-age) and 52 million children are wasted (low weight-for-height). Approximately 90 % of these children live in just 36 countries with the highest prevalence in Southeast Asia and Sub-Saharan Africa (Das et al, 2015). Further, South Asia has the highest prevalence of underweight among adolescent girls of 15-18 years increasing annually by 0.66% in rural areas. On the contrary, the Latin American and the Caribbean countries showed higher regional prevalence of overweight in both rural and urban settings with this prevalence increasing annually by about 0.50% (Jaacks et al, 2015). In urban areas, 38% of countries had both an under- and overweight prevalence ≥10% (Jaacks et al, 2015). Additionally, the prevalence of low BMI (<18·5 kg/m<sup>2</sup>) in adult women remains higher than 10% in Africa and Asia (Black et al, 2013). The prevalence of single or coexisting micronutrient deficiencies together termed as "hidden hunger" in the populations of LMICs, predominantly of iron, vitamin A and zinc continues as a major public health challenge. The older women are often regarded as neglected part of the communities with high prevalence of undernutrition. About a half of the Bangladeshi older adults had chronic energy deficiency and 62% were at risk of malnutrition (Kabir et al, 2006). Collectively, the above data indicate a double burden of nutritional issues- prevalence of undernutrition and obesity in the vulnerable populationsas a result of nutrition transition.

Risk factors of undernutrition are complex; including national scale determinants to individual specific, and factors which effect at various age and period of life (Scaling up of Nutrition, 2011). The UNICEF conceptual framework on the causes of malnutrition suggests that aetiology of undernutrition is multifactorial, complex and intricate. The framework has classified the causes of undernutrition to three categories as immediate causes (i.e. inadequate dietary intake and infectious diseases), underlying causes (i.e. insufficient access to food, inadequate maternal and child care, poor sanitation hygiene and inadequate health services) and basic causes (i.e. the roles of formal and non-formal institutions, political and ideological superstructure, economic structure and potential resources) (UNICEF, 1998).

Under-or-over-nutrition can have adverse effects throughout the life cycle and has been considered as a leading cause of death, disability, and ill-health (WHO, 2013). For example, maternal overweight and obesity are associated with maternal morbidity, preterm birth, and increased infant mortality. Fetal growth restriction is associated with maternal short stature and underweight and causes 12% of neonatal deaths (Black et al, 2008). Being underweight makes infants and mothers susceptible to infection and longer duration to recover from illness, and with repeated bouts of infectious diseases estimated 3.1 million preventable maternal and child deaths occur annually (Black et al, 2013). Stunting (defined by the WHO as low height-for-age) impair cognitive development, increase susceptibility to infection, and affect school attainment and future productivity with intergenerational effects (Bhutta et al, 2013). Further, deficiencies in iron, iodine, zinc, and vitamins can cause problems such as brain damage, blindness, anaemia, and stunted growth. Undernutrition affects learning abilities, and cause delayed achievement of developmental milestones in children. In turn, such adults fail to reach their full growth potentials influencing their socio-economic productivity resulting in poor economic growth (Hoddinott, 2013).

## 1.2 Description of the interventions to improve nutritional and health status

The global nutrition scenario has changed significantly ever since the constitution of MDGs. Increasingly, more countries recognise the potentials of good nutrition to strengthen societies and transform the lives of vulnerable populations, including children, women and socio-economically disadvantaged populations. As a result, multitudes of interventions to reduce undernutrition at different stages of lifecycle had been recommended and implemented in various countries, including the LMICs.

Many adverse effects of undernutrition including morbidities and mortalities in vulnerable populations could be prevented through timely nutrition interventions. These nutrition interventions have both preventive and curative purposes, especially in LMICs and scaling up of these valuable interventions have shown to be hugely beneficial to the millions of populations (Bhutta et al, 2013). The Lancet (2013) series on maternal and child health examined these multitudes of interventions that were implemented in 34 countries and ascertained that scaling up of these interventions reduce deaths in children younger than five years by 15% (Bhutta et al, 2013).

The nutrition interventions were categorized to nutrition-specific and nutrition-sensitive interventions (Bhutta et al, 2013).

• Nutrition-specific interventions refer to those programmes and approaches that have direct impact on nutritional outcomes and address the immediate causes of undernutrition (i.e. inadequate food intake, poor feeding and care practices and high burden of infectious diseases). The ten nutrition-specific interventions with evidence for effectiveness of nutrition interventions and delivery strategies identified included supplementation of folic acid, calcium, balanced protein-energy and micronutrients to pregnant women; promoting breast feeding and delivering appropriate complementary feeding to infants, providing vitamin A and zinc supplements to children up to the age of

five; and using proven treatment strategies to manage moderate to severe malnutrition in children.

 Nutrition-sensitive interventions and programmes include programmes that address some of the underlying determinants of nutrition (e.g. poverty, food insecurity, poor health, gender inequity, etc.). Nutrition-sensitive interventions include agriculture, home gardens and homestead production systems, biofortification, social safety nets, conditional and unconditional cash transfers, school feeding programmes, household food distributions, early child development and schooling.

The above interventions could be delivered through a wide variety of platforms providing enough opportunities to scale up these strategies to reach large number of these socioeconomically disadvantaged and vulnerable populations in LMICs. The different platforms include fortification of staple foods to reach large segments of populations; cash transfer programmes to reduce poverty, reduce financial barriers, and to improve population health; community based platforms for nutrition education and promotion aimed to promote behaviour change; community mobilization strategies to promote health care; integrated management of childhood illnesses strategies to improve healthcare practices at health facilities and home; school based delivery platforms to reach children >5 years of age to improve nutritional status through feeding programmes while promoting school enrolment; and child health days to deliver nutrition interventions such as vitamin A supplements, immunizations, insecticide-treated nets and deworming drugs (Bhutta et al, 2013).

Implementation of nutrition-specific interventions may appear to be simple, cost-effective and straight forward to improve the nutritional status of different populations, however, delivery, uptake and utilization of such interventions are extremely complex to achieve the desired outcomes. The implementation of these interventions is often influenced by several factors including behavioural, contextual, social, access and system barriers (Middleton et al, 2012). Some of such programmes made limited impact on the expected outcomes due to complex social environments, poverty and lack of access to quality food items, gender inequalities, social beliefs and lack of opportunities to participate in decision making process.

#### 1.3 Benefits of nutrition interventions

Nutrition interventions are primarily aimed to improve the nutritional status of populations augmenting their dietary intakes to achieve optimal/desirable intakes of various nutrients. Nutrition-specific interventions such as direct supplementation of various nutrients (i.e. balanced protein-energy, calcium, iron, folic acid, vitamin A, zinc, iodine etc.) aims to improve the intakes of these nutrients to prevent nutrient deficiencies in different populations including women and children. The majority of populations living in LMICs have limited access to nutrient dense foods, such interventions are beneficial as they subsist on predominantly cereal-pulse based diets that are insufficient to adequately provide many of these nutrients.

Supplementation of folic acid to women of reproductive age has shown 72% reduction in risk of development of neural tube defects (De-Regil et al, 2010); daily iron supplementation during pregnancy reported 70% reduction in anaemia at term, 67% reduction in iron deficiency anaemia (IDA), and 19% reduction in the incidence of low birthweight (Pena-Rosas, 2012); multiple micronutrient supplementation reported 11–13% reduction in low birthweight and SGA births (Haider and Bhutta, 2012); calcium supplementation during pregnancy reduced the incidence of gestational hypertension by 35%, preeclampsia by 55%, and preterm births by 24% (Hofmeyr et al, 2010); iodised oil supplementation in pregnancy in severe iodine deficient populations showed a 73% reduction in cretinism and a 10–20% increase in developmental scores in children, (Zimmermann, 2012); and balanced energy-protein supplementation during pregnancy increased birthweight by 73g (95% CI 30–117) and reduced risk of SGA by 34%, with more pronounced effects in malnourished women (Imdad and Bhutta, 2012).

In neonates, breast feeding initiation within 24 h of birth was associated with a 44–45% reduction in all-cause and infection-related neonatal mortality (Debes et al, 2013); in children between 6 to 23 months of age consumption of a minimum acceptable diet with dietary diversity reduced the risk of both stunting and underweight (Marriott et al, 2012); vitamin A supplementation reduced all-cause mortality by 24% and diarrhoea-related mortality by 28% in children aged 6–59 months (Imdad et al, 2010); intermittent iron supplementation to children younger than 2 years reduced the risk of anaemia by 49% and iron deficiency by 76% (De-Regil et al, 2012); and preventive zinc supplementation reduced the incidence of diarrhoea by 13% and pneumonia by 19%, with a non-significant 9% reduction in all-cause mortality (Yakoob et al, 2011).

Evidence from studies that compared ready-to-use therapeutic foods (RUTF) with standard care in community based management of severely acutely malnourished (SAM) children showed no effects on reduction mortality; however, children who received RUTF had faster rates of weight gain and had 51% greater likelihood to recover (defined as attaining WHZ  $\geq$  – 2) than did those receiving standard care (Lenters et al, 2013). In a landmark randomized control trial in children with uncomplicated SAM that compared standard RUTF with RUTF and additional 7 day course of antibiotics showed a lower mortality rate, faster recovery rate, and higher weight gain in children who received an antibiotic compared with children receiving placebo (Trehan et al, 2013).

Table 1: Summary of evidence for nutrition-specific interventions from 34 highest burden countries from LMICs

Interventions	Findings
Supplementation of folic acid to women of reproductive age	Has shown 72% reduction in risk of development of neural tube defects (De-Regil et al, 2010)
Daily iron supplementation during pregnancy	Reported 70% reduction in anaemia at term, 67% reduction in iron deficiency anaemia (IDA), and 19% reduction in the incidence of low birthweight (Pena-Rosas, 2012)
Multiple micronutrient	Reported 11–13% reduction in low

supplementation	birthweight and SGA births (Haider and Bhutta, 2012)
Calcium supplementation during pregnancy	Reduced the incidence of gestational hypertension by 35%, preeclampsia by 55%, and preterm births by 24% (Hofmeyr et al, 2010)
lodised oil supplementation in pregnancy in severe iodine deficient populations	Showed a 73% reduction in cretinism and a 10–20% increase in developmental scores in children, (Zimmermann, 2012)
Balanced energy-protein supplementation during pregnancy	Increased birthweight by 73g (95% CI 30–117) and reduced risk of SGA by 34%, with more pronounced effects in malnourished women (Imdad and Bhutta, 2012).
In neonates, breast feeding initiation within 24 h of birth	Was associated with a 44–45% reduction in all-cause and infection-related neonatal mortality (Debes et al, 2013)
In children between 6 to 23 months of age consumption of a minimum acceptable diet with dietary diversity	Reduced the risk of both stunting and underweight (Marriott et al, 2012)
Vitamin A supplementation	Reduced all-cause mortality by 24% and diarrhoea-related mortality by 28% in children aged 6–59 months (Imdad et al, 2010)
Intermittent iron supplementation to children younger than 2 years	Reduced the risk of anaemia by 49% and iron deficiency by 76% (De-Regil et al, 2012)
Preventive zinc supplementation	Reduced the incidence of diarrhoea by 13% and pneumonia by 19%, with a non-significant effects - 9% reduction in all-cause mortality (Yakoob et al, 2011).
Ready-to-use therapeutic foods (RUTF) with standard care in community based management of severely acutely malnourished (SAM) children	Showed no effects on reduction mortality
Children who received RUTF	Had faster rates of weight gain and had 51% greater likelihood to recover (defined as attaining WHZ ≥ -2) than did those receiving standard care (Lenters et al, 2013).
Children with uncomplicated SAM that compared standard RUTF with RUTF and additional 7 day course of antibiotics	Showed a lower mortality rate, faster recovery rate, and higher weight gain in children who received an antibiotic compared with children receiving placebo (Trehan et al, 2013)

Nutrition-specific interventions are short-term strategies and are aimed to combat issues of undernutrition through targeted approach of supplementation of nutrients to the specific groups of populations. The sustainability of such interventions/ programmes is often a great challenge and needs huge investments. A more prudent approach would be to have a

combination of both nutrition-specific and nutrition-sensitive approach in order to improve the dietary intakes of nutrients and thus, nutritional status indirectly.

Nutrition-sensitive programmes aid to accelerate improvements in nutritional status by augmenting household and community environments, protecting the poor from the adverse implications of food security threats and climate change (Ruel et al, 2013). Targeted agricultural programmes can influence nutrition through key mediators including women's social status, empowerment, control over resources, time allocation, and health and nutritional status (World Bank, 2007; Gillespie et al, 2012). The effects of homestead food production systems on intermediary outcomes along the impact pathway, showed positive effects on household production and consumption, maternal and child intake of target foods and micronutrients, and overall dietary diversity (Leroy et al, 2008). Biofortification strategies are found to be successful in improving the dietary intakes of different micronutrients such as vitamin A, iron and zinc, contributing to achieve adequate intakes of these deficient nutrients. The majority of these nutrition-sensitive programmes improve the food availability and food consumption, thus, favouring adequate food intakes, increase dietary diversity to ensure appropriate nutrient intakes in the vulnerable populations. The impact of these interventions are indirectly associated with the nutritional and health status, and hence these interventions may be quantified based on the other secondary inputs such as impact on improving income of the family, access to quality food items and so on. Further, impact may be measured on specific indicators from such secondary outputs.

**Table 2: Summary of evidence for nutrition-sensitive interventions** 

Interventions	Findings
Targeted agricultural programmes	Can influence nutrition through key mediators including women's social status, empowerment, control over resources, time allocation, and health and nutritional status (World Bank, 2007; Gillespie et al, 2012)
Homestead food production systems on intermediary outcomes along the impact pathway	Showed positive effects on household production and consumption, maternal and child intake of target foods and micronutrients, and overall dietary diversity (Leroy et al, 2008).
Biofortification strategies	Found to be successful in improving the dietary intakes of different micronutrients such as vitamin A, iron and zinc, contributing to achieve adequate intakes of these deficient nutrients.

## 1.4 Rationale

Evidence summaries harvested from existing systematic reviews (SRs) and meta-analyses help to consolidate the available evidence in a specific area to support evidence-based policy formulations and implementation of programmes that might benefit the vulnerable populations, especially in the LMICs. The development of evidence summaries not only support formulation of policies but also these evidence generated could be contextualized country-specific or region specific to improve the health outcomes of the populations. Additionally, such summaries provide insights into the availability/non-availability of the existing evidence in a particular theme or area of research.

Under- and over-nutrition issues in vulnerable populations continue as a major public health challenge that adversely impact nutritional and health status of populations; in its severe forms results in morbidity and mortality. These nutrition issues are preventable with timely interventions and support in a cost-effective way. The Lancet maternal and child health series (2013) showed multiple benefits of scaling up of nutrition-specific and nutrition-sensitive interventions in reducing maternal and child mortality. The evidence from the above series politically and socially motivated the implementation of large scale nutrition programmes or interventions in many developing countries, especially as an attempt to achieve target of MDGs-reducing maternal and infant mortality by 2015.

There are many nutrition interventions implemented globally, especially in developing countries to improve health and nutrition status of the vulnerable and/or socioeconomically disadvantaged populations. The impact of these nutrition interventions have been positive, however, they had inherent challenges at the implementation level that influenced the uptake and delivery (a conceptual framework presented below). Subsequently, in different developing country settings these interventions showed mixed results due to inherent challenges in access, availability, implementation, delivery and uptake by different segments of populations (refer contextualisation section) . Thus, the majority of undernutrition challenges remain as unfinished agenda in LMICs. Additionally, more evidence from research emerged in the last few years regarding potential new interventions and the innovative delivery platforms for implementation of these targeted interventions that might improve the nutrition and health status of socioeconomically disadvantaged populations.

In this scenario, it may be prudent to gather more evidence to critically analyse and identify key characteristics of successful interventions in LMICs and contextualize it to South Asian countries and particularly Bangladesh. Developing country-specific evidence on potential interventions would be of interest to policy makers in LMICs, as policy making decisions are often spontaneous without adequate evidence. Further, the results from such evidence summaries might be a foundation for many developing countries to implement evidence-based country-specific nutrition interventions to improve the health and nutrition status of populations in a most culturally and socially appropriate way. This approach would allow the countries to revisit and strengthen these nutrition interventions to achieve nutrition related (Goal 2) targets of SDG by 2025.

## 1.5 Research aims and review questions

The aim of this meta-review will be to identify, critically appraise and provide an overview of review-level evidence on the effectiveness of nutritional interventions delivered in LMICs. This will be achieved by addressing the following primary research question:

**a. Primary question**: What review-level evidence exists on the effectiveness (i.e. in terms of achieving the set targets and outcomes) nutrition interventions in LMICs?

Depending on the nature and extent of the evidence-base on the effectiveness of nutritional programmes in LMIC's it may be possible to provide further review-level evidence to answer the following research questions:

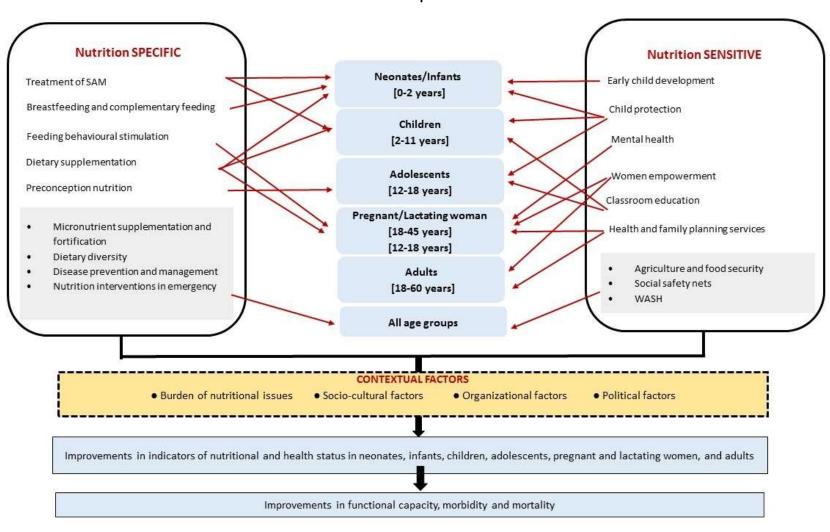
## b. Sub-questions

- 1. What types of nutrition interventions aimed at improving nutritional and health status of the general population in LMICs are shown to be effective?
- 2. What review-level evidence exists on the factors potentially contributing to the success or failure of nutritional interventions in LMICs?
- 3. Is there review-level evidence of effectiveness of nutrition interventions specific to urban settings in LMICs? If so, what are the key characteristics of successful nutrition intervention programmes delivered in urban settings<sup>1</sup>?

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<sup>&</sup>lt;sup>1</sup> In case sufficient SRs are not found covering urban settings in particular, then the findings will not be drawn for urban context in particular and "Urban settings" will be dropped from the question. The question will focus on LMIC with other possible contexts (e.g. literacy, income level, gender etc.).

## **Conceptual Framework**



## 2 METHODS

#### 2.1 Advisory group involvement

We have established a multidisciplinary review team and advisory group (Appendix 1.1) with significant experience of nutrition programs in South Asia. These members were involved in developing and finalising the protocol. Additionally, we will include two members from DFID as well in the advisory group. We will engage with the advisory group throughout the different stages of the review through different channels of communication such as emails, telephone and skype to get their input and feedback on search terms, screening, data extraction tool, synthesis, final report writing and dissemination of study findings. Depending on the feasibility, we may hold one face to face meeting with the advisory group during the final stages of the review.

#### 2.2 Defining relevant reviews: Inclusion criteria

All located citations will be assessed first on the basis of title and abstract. The full publication of those meeting inclusion criteria (*Appendix 2.1*) will be retrieved and assessed again for inclusion. For systematic review citations to be included on title and abstract, studies must:

**Language**: be published in English, in order to be completed within the limited time boundary of the project.

## **Types of Studies:**

SRs that have used explicit systematic methods to identify studies- such as have searched at least two electronic databases, included a method to describe how the studies were selected- will be used. Depending on the quality of the reviews, we synthesise primary evidence on the effectiveness of nutrition programs in LMICs and draw conclusions based on findings from individual studies irrespective of the study designs of the included primary studies.

**Population:** include the general population of low and middle-income countries with a specific focus on vulnerable groups such as children, women and other socio-economically disadvantaged groups. Low and middle income countries will be classified according to the World Bank definition (World Bank, 2016).

**Interventions:** aim to tackle issue of under-nutrition by improving dietary intake of beneficiaries including both nutrition specific and nutrition sensitive approaches and programmes. The **Comparators** will include all SRs irrespective of they had a comparison group or not.

**Outcomes:** Will include primary and secondary outcomes that reflect nutritional and health status of the population. A list of potential indicators that reflects primary and secondary outcomes based on a quick eyeballing of the existing reviews is as follows:

#### **Outcome Indicators**

**Newborns and infants:** Low birth weight, pre-term birth, neural tube defects, iodine, vitamin A deficiencies, initiation of breastfeeding in the first hour after delivery, exclusive breastfeeding, timely introduction of complimentary feeding, continued breastfeeding until two years including the IYCF indicators, neurobehavioral, motor development/cognition indicators, neonatal and infant mortality and morbidity.

**Older Children:** Wasting (weight-for-height <-2 SD), stunting (height-for-age <-2 SD), underweight (weight-for-age <2 SD), anaemia (low haemoglobin status), overweight/ obesity (weight-for-age >2 SD), vitamin A, iodine and zinc deficiencies, inadequate intakes of nutrients below estimated average of nutrients, neurobehavioral, motor development/cognition indicators, under five mortality, morbidity- diarrheal diseases, respiratory tract diseases and immunization of children.

**Pregnant women:** Anaemia, weight gain, indicators of micronutrient status of iron, zinc, vitamin B12, folic acid, vitamin A and iodine, iron-folic acid and calcium tablet use, adequate intake of nutrients (as indicated by meeting the estimated average nutrient intakes of pregnancy), pre-eclampsia, and eclampsia.

**Adults:** Chronic energy deficiency (BMI <18.5 Kg/m2), anaemia, iron deficiency anaemia, iron, calcium, zinc, vitamin B12 and folic acid deficiencies (low serum or plasma levels of respective nutrients).

## **Outcomes**

#### **Primary outcomes**

• Reduction in nutritional issues such as wasting, stunting, underweight, chronic energy deficiency, micronutrient deficiencies (anaemia, zinc, iodine, iron, vitamin A, vitamin B12, folic acid) and improvement in adequate dietary intakes of nutrients

## **Secondary outcomes**

- Improvements in functional capacity: cognition, capacity to work, work efficiency
- Morbidity: Reduction in disease burden- overweight, obesity, diarrheal diseases, respiratory tract diseases
- Mortality

PICOCS: Participants, Interventions, Comparators, Outcomes, Context (LMICs) and Study design framework formulates the overall scope and criteria for inclusion of reviews in the evidence summary.

## 2.3 Identifying reviews: Search strategy

We will conduct a comprehensive search both electronically and manually to identify published SRs. We will contact key stakeholder organizations and individuals from the South Asia region including academics and experts in the field of nutrition; policy makers from relevant government departments; and representatives from donor agencies and special interest groups for any relevant unpublished reviews. During the protocol workshop, the project team and the consultant had extensive discussions on databases to be searched and potential key words to be used for this evidence summary. Thus developed lists of databases and key words are provided in *Appendix 2.2 and 2.3* respectively. This includes specialist databases for SRs such as the Cochrane databases, Joanna Briggs Institute, DFID, and PROSPERO, searches will be conducted on PubMed, PsycINFO, CINAHL, Web of Science, IBSS, and the libraries of the authors' institutions and online resources such as Google. We will use the EPPI reviewer 4 from EPPI-centre, UK to export the citations produced. Duplications will be removed using EPPI reviewer.

Detailed electronic searches will also be conducted in relevant reports, conference proceedings and other unpublished grey literature. A sample of stakeholders from the South Asia region including academics and experts in the field of nutrition; policy makers from relevant government departments and representatives from donor agencies, special interest groups and other relevant organisations will also be contacted for relevant reviews *Appendix 2.6*. We will also use mediums such as mailing lists and blog postings to identify unpublished and grey literature.

Key words will be used to identify reviews along with Boolean operators using 'AND', 'OR' and 'NOT' to unite and filter the search terms. An example of a search strategy is provided in *Appendix 2.3*. We will seek expert advice from EPPI Centre regarding the suitability of the developed search strategy.

#### 2.4 Screening reviews: applying inclusion and exclusion criteria

Two-stage screening process will be adopted to select systematic reviews:

**First stage** involves screening of all titles and/or abstracts for eligibility and will be done by two researchers (AR, RR). During this screening, all titles and abstracts that seem to be eligible based on the inclusion and exclusion criteria (*Appendix 2.1*) and those in doubt will be included for next step screening and relevant full text articles will be retrieved.

**Second stage:** The retrieved full text articles will be independently screened by researchers (RR, AR, SM,) against a checklist of inclusion criteria as outline in *Appendix 2.1*. In case of a discrepancy, a senior investigator (DM, KM, SP) will be involved to make a decision.

## 2.5 Critical appraisal and data extraction

The included SRs will be appraised by the researchers (AR, RR, SM) for quality using the AMSTAR criteria (Shea et al, 2007). Reviews will be assessed on eleven criteria and these criteria summed, where 11 represents a review of the highest quality. Categories of quality will be determined as follows: low (score 0 to 3), medium (score 4 to 7), and high (score 8 to 11). The risk of bias tool is provided in *Appendix 2.4*. Studies judged to be of low quality will be included if they are relevant during data extraction and synthesis stages.

The reviews will be categorised broadly by aspects such as the type of interventions, primary beneficiaries, quality of studies considered, review methods used, outcomes, recommendations, and implications for policy and practice. The data extraction will be

carried out independently by two investigators with a predesigned data extraction tool. The data extraction tool includes details of authors; year of publication; PICOS (population, intervention, comparison, outcomes and study design); recommendations and implications for policy and practice. The data extraction tool will be developed and tested for its suitability and usability. A preliminary draft is appended in *Appendix 2.5*. We will use a separate tool to extract findings that are of relevance to South Asian region.

#### 2.6. Evidence synthesis and reporting

Towards the end of data extraction, the project team will discuss and decide the possible analyses. We will take input from advisory members and the SR consortium. The analysis and reporting strategy will be finalised during this discussions. Broadly, we will use a narrative numerical synthesis approach following the Preferred Reporting Items for Systematic Reviews and Meta Analyses (PRISMA) guidelines (<a href="http://www.prisma-statement.org/statement.htm">http://www.prisma-statement.org/statement.htm</a>) to produce the summary report. In addition to textual commentary, we will incorporate summary tables on characteristics of included reviews including the geographical area covered and the types and details of nutrition interventions and outcomes. We envisage categorisations of results in terms of region (rural/urban), population subgroups, types and methods of interventions and outcomes. We will explore the possibility of including a summary table of findings of highly relevant primary studies from the SA region. For the purpose of this review, the South Asian region is described as comprising of Afghanistan, Bangladesh, India, Nepal, Myanmar and Pakistan.

In addition to the findings, the summary will include implications for policy and programmatic development at individual country levels and the South Asia region as a whole. We will also make recommendations for future research based on identified evidence gaps on key policy concerns.

The senior investigators (DM, KM, SP) will lead on writing the different sections of the report.

## 2.7 Quality assurance process

We will adopt different approaches for quality assurance throughout the various stages of the review. In addition to using standardised tools such as AMSTAR and PRISMA guidelines and the application of pre designed inclusion and exclusion criteria, the coding/data extraction will be conducted by pairs of team members working independently and then comparing their decisions to reach consensus. We will also put in place an additional internal quality assurance mechanism whereby each of the stages will be overseen by one the three senior investigators (DM, KM, SP) who will independently evaluate the process and the outputs such as search strategy, list of databases, key words, data extraction sheet, structure of possible summary tables and summarisation process.

The advisory group members and the EPPI-centre will also be consulted and involved in key activities.

#### 2.8 Contextualisation

The majority of the countries in South Asia including Bangladesh, Nepal, Afghanistan, India, Myanmar, and Pakistan have similar nutritional issues and these countries are undergoing nutrition transition. Although there are multiple interventions to address these nutritional and health challenges in afore mentioned countries- the impact of these interventions were less than the anticipated targets. The delivery of interventions had multiple issues:

**Policy level**- lack of comprehensive interventions to address all forms of nutrition challenges, interventions do not follow evidence-based approaches, and inadequate commitment to the interventions;

**Delivery/implementation**- implementation of these interventions at lower scale, poor coverage, lack of access, inadequate availability, poor uptake of interventions, ineffective implementation, inadequate awareness of the benefits of interventions both at the service delivery and uptake levels, and lack of sectoral convergence in implementation;

**Monitoring and evaluation**- poor in built monitoring and evaluation systems, lack of routine surveillance mechanisms, and inadequate mechanisms to re-evaluate and modify the interventions based on the surveillance data.

The above inherent challenges limit the outcomes of these interventions to achieve the set targets in specific time frames. A general list of contextual factors is as follows (more clarity in this may emerge as we move forward with the review process):

- Burden of nutritional issues: the type of nutrition issues, prevalence, populations affected, geographical distribution
- Socio-cultural factors: Social norms, cultural practices, women's status, education, transport facilities, socio-economic status, poverty, access to quality foods, food security
- Organizational: Adequate availability of healthcare services, appropriate service
  delivery, equity, access to health care services, existing interventions in the countries,
  organizations involved in the implementation of interventions, effective
  implementation of interventions, frequent monitoring and evaluation of the
  implemented interventions, role of health care providers and workers, and
  convergence of different sectors, departments (agriculture, health women and child
  development, and tribal development), and organizations to optimize the desired
  change
- *Political:* Enabling environments for nutrition, political drive and commitment, adequate support systems to enable the desired change

We will contextualise the findings with respect to above mentioned factors specific for SA region, particularly Bangladesh. This will include stating which findings will be relevant in the light of the existing policy and programmatic initiatives in the region (for example: India: Iron and folic acid supplementation, Kangaroo mother care, Early initiation of breast feeding, Vitamin A supplementation, etc.; Bangladesh: Iron and folic acid supplementation; Pakistan:

Iron and folic acid supplementation, use of iodized salt, etc.). The team includes members with significant experience of nutrition programmes in South Asia and while developing the original proposal we have had extensive discussions about the potential implication of this evidence summary to inform policy, practice and future research. In addition, we will seek feedback from the advisory group and the dissemination workshop participants as well as the SR consortium. We will also hold discussions with relevant stakeholders in SA including telephonic interviews with sector experts, regional government officials/advisors, policymakers, DFID country advisors, to obtain their views and feedback. We will use templates provided by the EPPI-centre to develop the contextualisation document.

#### 2.9 Dissemination

The findings will be useful and of interest to a wide range of regional, national and local and international stakeholders including policy makers, practitioners, academics, donor agencies and nongovernmental organisations in the field of health, nutrition, agriculture, and social policy. The project will be publicised through marketing support teams of the partner organisations right from the very beginning through online and print media platforms. All the organisations have a proven track record in raising awareness of research initiatives through local, national and international media. In addition to the summary and contextualisation document, other project outputs may include lay summaries for specific groups as relevant (e.g., leaflets for frontline workers; summaries in institutional newsletters) as well as for the general media (e.g., press releases; blog postings; columns in newspapers and magazines); at least one peer-reviewed article in a leading journal; and presentations at international and national conferences and other events involving sector discussions including events from DFID/SR consortium. We will hold a one day dissemination workshop in India towards the end of the study to encourage debate and uptake in the region to a larger extent. This will include representatives and key officials from relevant ministries (ministers/secretaries) from SA countries; key academic institutes in the sector; national and international NGOs; donor agencies; DFID country advisors; representatives from the media and special interest groups (Appendix 2.6). In addition to presenting the findings, the workshop will include panel discussions and round tables to offer a platform for stakeholders to exchange information and share ideas pertinent to policy, practice and future research and to develop specific action plans.

# 3 TIMETABLE

Timetable (some review methods do not include these stages in this order)		
Stage of review	Start date	End date
Preparing the protocol	28-Mar-16	27-Apr-16
Peer review of protocol (allow 2 months)	28-Apr-16	27-Jun-16
Searching for studies	28-Apr-16	19-May-16
Assessing study relevance	13-May-16	27-Jun-16
Extracting data from studies	28-May-16	10-Jun-16
Assessing study quality	11-Jun-16	20-Jun-16
Synthesising studies	21-Jun-16	21-Jul-16
Preparing draft report	31-Jul-16	27-Aug-16
Disseminating draft report (allow 3 months)	28-Aug-16	27-Nov-16
Revising report	27-Sept-16	20-Oct-16
Submission for publication with the EPPI-Centre		28-Oct-16

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#### APPENDIX 1.1: AUTHORSHIP OF THIS REPORT

#### **Authors**

1. Dileep Mavalankar, MD, DrPH

Director, & Vice-president (Western region), Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

2. Shuby Puthussery, DrPH

Senior Lecturer in Public Health, Department of Clinical Education and Leadership & Institute for Health Research, University of Bedfordshire, Bedfordshire, UK

3. Kavitha Menon, PhD

Associate Professor, Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

4. Ritu Rana, PhD

Assistant Professor, Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

5. Janine Bhandol, MCLIP

Librarian, University of Bedfordshire, Bedfordshire, UK

6. Sabuj Kanti Mistry, MPH

Senior Research Associate, Research and Evaluation Division, BRAC Centre, Dhaka, Bangladesh

7. Anal Ravalia, BAMS, MSc

Programme Assistant, Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

8. Pei-Ching Tseng, MSc

Research Assistant, Department of Clinical Education and Leadership & Institute for Health Research, University of Bedfordshire, Bedfordshire, UK

9. Pooja Panchal, MSc

Research Assistant, Indian Institute of Public Health Gandhinagar (IIPHG), Ahmedabad, Gujarat, India

## **Details of Advisory Group membership**

1. Dr. Purnima Menon,

Theme Leader, South Asia Nutrition Programmes, International Food Policy Research Institute

2. Dr. Sanjay P Zodpey

Director, Public Health Education, Public Health Foundation of India

3. Shri Amit Kumar Ghosh

Mission Director, National Health Mission

Government of Uttar Pradesh

## **Details of Review Group membership**

Not applicable

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#### **Conflicts of interest**

None declared

## APPENDIX 2.1: INCLUSION AND EXCLUSION CRITERIA

#### **Inclusion Criteria**

- 1. Language: Published in English
- 2. **Date of publication**: Jan 2000 to June 2016, in order to be completed within the limited time boundary of the project.
- 3. Types of SRs:
  - 3.1. Searched at least two electronic databases and included a method describing how the studies were included and/or excluded
  - 3.2. Synthesised primary evidence on the effectiveness of nutrition programs in LMICs and draw conclusions based on findings from individual studies irrespective of the study designs of the included primary studies
- 4. **Population:** Include the general population with a specific focus on vulnerable groups such as children, women and other socio-economically disadvantaged groups.
- 5. **Interventions:** SRs which have included at least one of these interventions that aim to tackle issue of under-nutrition by improving dietary intake of beneficiaries including-
  - 5.1. Nutrition specific
  - 5.2. Nutrition sensitive

	Folic acid supplementation
Nutrition specific	Iron supplementation
	Iron and folic acid supplementation
	Multiple micronutrient supplementation
	Calcium supplementation
	Iodine supplementation
	Iodine fortification
	Energy and protein supplementation
	Delayed cord clamping
	Neonatal vitamin K administration
	Neonatal vitamin A supplementation
	Kangaroo mother care
	Promotion of breast feeding and supportive strategies
	<ul> <li>Promotion of dietary diversity and complementary feeding</li> <li>Vitamin A supplementation in children</li> </ul>
	Iron supplementation for infants and children     Multiple migroputriest supplementation in children
	<ul> <li>Multiple micronutrient supplementation in children</li> <li>Preventive zinc supplementation in children</li> </ul>
	<ul> <li>Prevention and treatment of SAM- facility based &amp; community based management</li> </ul>
	Fortification of staple foods and specific foods
	Cash transfer programs
	Community based platforms for nutrition education and promotion
	Integrated management of childhood illness
	School based delivery platforms
	Child health days
	Nutrition interventions in humanitarian emergency settings
	Lipid based nutrient supplements
	Maternal vitamin D supplementation
	Omega-3 fatty acid supplementation in pregnancy
	Agriculture
Nutrition sensitive	Home gardens and homestead food production systems
	Fortification
	- Toruncation

- Social safety nets
- Conditional cash transfers
- Unconditional transfers
- School feeding programs
- In- kind household food distribution
- Transfer programs in emergencies
- Early child development
- Food security
- Water, sanitation and hygiene
- 6. Comparators: Will include all SRs irrespective of they had a comparison group or not.
- 7. Outcomes: SRs which have included at least one of these outcomes that reflect

#### 7.1 Primary outcomes

 Reduction in nutritional issues such as wasting, stunting, underweight, chronic energy deficiency, micronutrient deficiencies (anaemia, zinc, iodine, iron, vitamin A, vitamin B<sub>12</sub>, folic acid) and improvement in adequate dietary intakes of nutrients

#### 7.2 Secondary outcomes

- Improvements in functional capacity: cognition, capacity to work, work efficiency
- Morbidity: Reduction in disease burden- overweight, obesity, diarrheal diseases, respiratory tract diseases
- Mortality
- 8. **Context:** Population from LMICs, these will be classified according to the World Bank definition (World Bank, 2016)

#### **Exclusion Criteria**

Studies will be excluded based on the following criteria-

- 1. Language: are not published in English
- 2. **Date of publication**: not published between Jan 2000 to June 2016
- 3. Types of SRs: not a systematic review. E.g. they have not
  - 3.1. Searched at least two electronic databases and included a method describing how the studies were included and/or excluded
  - 3.2. Synthesised primary evidence on the effectiveness of nutrition programs in LMICs and draw conclusions based on findings from individual studies irrespective of the study designs of the included primary studies
- 4. **Population:** do not focus on the general population with a specific focus on vulnerable groups such as children, women and other socio-economically disadvantaged groups. E.g.
  - 4.1. Participants with conditions like, Tuberculosis, HIV/AIDS, infectious diseases (malaria, hepatitis and typhoid), communicable diseases (diabetes, CVDs, chronic respiratory diseases, cancer).
- 5. **Interventions:** SRs which have not included at least one of these interventions that aim to tackle issue of under-nutrition by improving dietary intake of beneficiaries including-(see inclusion criteria)
- 6. Outcomes: SRs which have not included at least one of these outcomes-(see inclusion criteria)

# APPENDIX 2.2 LIST OF DATABASES

Databases (14)	Global (8)	Region	al (6)
,	Annual Reviews Biomedical	1.	
	2. CINAHL	2.	
	3. Global Health		(BanglaJOL)
	4. IBSS	3.	Indian Citation Index (ICI)
	5. Medline	4.	LILACS
	6. PsycINFO	5.	Nepal Journals Online
	7. PUBMED		(NepJOL)
	8. Web of Science	6.	PakMediNet
	1. 3ie		
SR Databases (6)	2. Campbell Collaboration Library for SR		
	3. Cochrane Database of SRs		
	4. DFID		
	5. Joanna Briggs Institute		
	6. PROSPERO		
	Bioline International		
Digital Library (2)	WHO Library and Information Networks for Knowledge (WHOLIS)		

#### APPENDIX 2.3 SEARCH STRATEGY

Depending on the data base, we will use a combination of free text terms and MeSH terms

#### INTERVENTIONS [Initial search with intervention terms only]

Intervention\* OR initiative\* OR process\* OR program\* OR policy OR policies OR effect\* OR "delivery mode" OR implication\* OR scheme\* OR strategy\* OR outcome\* OR impact OR evaluat\* OR delivery OR implement\*

#### AND

Nutrition\* OR "fortification" OR "single nutrient fortification" OR "folic acid supplementation" OR "iron supplementation" OR "multiple micronutrient powder" OR "early childhood development" OR "micronutrient supplementation" OR "micronutrient powders" OR "micronutrient sprinklers" OR "calcium supplementation" OR "iodine supplementation" OR "iodine fortification" OR "energy protein supplementation" OR "delayed cord clamping" OR "neonatal vitamin K administration" OR "neonatal vitamin A supplementation" OR "kangaroo mother care" OR "early initiation of breastfeeding" OR "promotion of breastfeeding" OR "responsive feeding" OR "promotion of dietary diversity" OR "complementary feeding" OR "complementation" OR "vitamin A supplementation" OR "multiple micronutrient supplementation" OR "preventive zinc supplementation" OR "SAM" OR "facility based management" OR "community based management" OR "staple foods fortification" OR "home based fortification" OR "specific foods fortification" OR "cash transfer programs" OR "community based platforms" OR "nutrition education" OR "nutrition promotion" OR "IMNCI" OR "integrated management childhood illness" OR "school based programs" OR "LNS" OR "lipid based nutrient supplements" OR "ready-to-eat foods" OR "RUTF" OR "ready-to-eat therapeutic foods" OR "ready-to-eat supplementary foods" OR "RUSF" OR "vitamin D supplementation" OR " Omega-3 fatty acid supplementation" OR "nutrition sensitive" OR "home gardens" OR "home gardening" OR "kitchen garden" OR "vegetable garden" OR "household garden" OR "household gardening" OR "garden based nutrition program" OR "kitchen garden" OR "kitchen gardening" OR "project garden" OR "homestead plot" OR "homestead horticulture and gardening" OR "food garden" OR "food gardening" OR "home based food garden" OR "homestead food production" OR "homestead food production systems" OR "fortification" OR "biofortification" OR "social safety nets" OR "family allowance program" OR "child grant" OR "child support grant" OR "microfinance" OR "social transfer" OR "social assistance" OR "cash transfer" OR "conditional cash transfers" OR "monetary incentives" OR "unconditional transfers" OR "in-kind household food distribution" OR "transfer programs emergencies" OR "feeding" OR "school feeding" OR "meals" OR "snacks" OR "breakfast" OR "mid-day meal" OR "mid day meal" OR "feeding services" OR "lunch" OR "school feeding programs" OR "mot or development" OR "food security" OR "food supply" OR "food distribution" OR "food production" OR "food aid" OR "sustainable agriculture" OR "WASH" OR "water sanitation hygiene"

#### **CONTEXT**

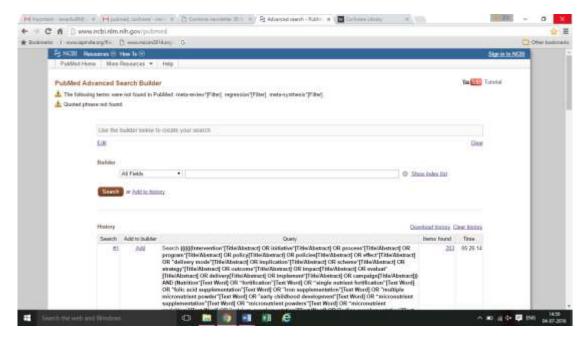
"developing countries" OR "less developed countries" OR "underdeveloped" OR "underserved countries" OR "deprived countries" OR "poor countries" OR "third world countries" OR "transitional countries" OR "low income countries" OR "middle income countries" OR "lower middle income countries" OR "upper middle income countries" OR "low and middle income countries" OR "lesser developed countries" OR "developing nation" OR "developing economies" OR "LAMI countries" OR Africa\* OR Asia\* OR "Caribbean" OR "West Indies" OR "South America" OR "Latin America" OR "Central America" OR "Sub-

Saharan Africa" OR "underprivileged countries" OR "Afghanistan" OR "Albania" OR "Algeria" OR "American Samoa" OR "Angola" OR "Armenia" OR "Armenian" OR "Azerbaijan" OR "Bangladesh" OR "Belarus" OR "Byelarus" OR "Byelorussian" OR "Belorussian" OR "Belorussia" OR "Belize" OR "Benin" OR "Bhutan" OR "Bolivia" OR "Bosnia" OR "Herzegovina" OR "Hercegovina" OR "Botswana" OR "Brazil" OR "Bulgaria" OR "Burkina Faso" OR "Burkina Fasso" OR "Burundi" OR "Urundi" OR "Cabo Verde" OR "Cape Varde" OR "Cambodia" OR "Cameroon" OR "Cameroons" OR "Camerons" OR "Camerons" OR "Camerons" OR "Camerons" OR "Camerons" OR "Cameroons" OR "Ca African Republic" OR "Chad" OR "China" OR "Colombia" OR "Comoros" OR "Comoro Islands" OR "Com ores" OR "Congo" OR "Democratic Republic Congo" OR "Costa Rica" OR "Cote" OR "d'Ivoire" OR "Ivory Coast" OR "Cuba" OR "Djibouti" OR "Dominica" OR "Dominican Republic" OR "Ecuador" OR "Egypt" OR "United Arab Republic" OR "El Salvador" OR "Eritrea" OR "Ethiopia" OR "Fiji" OR "Gabon" OR "Gabonese Republic" OR "Gambia" OR "Georgia" OR "Georgia Republic" OR "Georgian Republic" OR "Ghana" OR "Grenada" OR "Guatemala" OR "Guinea" OR "Guinea-Bisau" OR "Guyana" OR "Haiti" OR "Honduras" OR "India" OR "Indonesia" OR "Iran" OR "Islamic Republic" OR "Iraq" OR "Jamaica" OR "Jordan" OR "Kazakhstan" OR "Kazakh" OR "Kenya" OR "Kiribati" OR "Korea" OR "Democratic People's Republic Korea" OR "Kosovo" OR "Kyrgyz Republic" OR "Kyrgyzstan" OR "Kirgizstan" OR "Kirghizia" OR "Krghiz" OR "Lao PDR" OR "Lebanon" OR "Lesotho" OR "Liberia" OR "Libya" OR "Macedonia" OR "Madagascar" OR "Malawi" OR "Malaysia" OR "Maldives" OR "Mali" OR "Marshall Islands" OR "Mauritania" OR "Mauritius" OR "Mexico" OR "Micronesia" OR "Federated States Micronesia" OR "Moldova" OR "Moldovia" OR "Mongolia" OR "Montenegro" OR "Morocco" OR "Mozambique" OR "Myanmar" OR "Myanmar" OR "Burma" OR "Namibia" OR "Nepal" OR "Nicaragua" OR "Niger" OR "Nigeria" OR "Pakistan" OR "Palau" OR "Panama" OR "Papua New Guinea" OR "Paraguay" OR "Peru" OR "Philippines" OR "Romania" OR "Rumania" OR "Roumania" OR "Rwanda" OR "Ruanda" OR "Samoa" OR "Sao Tome" OR "Principe" OR "Senegal" OR "Serbia" OR "Sierra Leone" OR "Solomon Islands" OR "Somalia" OR "South Africa" OR "South Sudan" OR "Sri Lanka" OR "Ceylon" OR "St. Lucia" OR "Saint Lucia" OR "St. Vincent" OR "Saint Vincent" OR "Grenadines" OR Sudan\* OR Surinam\* OR "Swaziland" OR "Syrian Arab Republic" OR "Syria" OR "Tajikistan" OR "Tadzhikistan" OR "Tadjikistan" OR "Tadzhik" OR "Tanzania" OR "Thailand" OR "Timor-Leste" OR "Timor Leste" OR "Togo" OR "Tonga" OR "Tunisia" OR "Turkey" OR "Turkmenistan" OR "Tuvalu" OR "Uganda" OR "Ukraine" OR "Uzbekistan" OR "Uzkek" OR "Vanuatu" OR "Vietnam" OR "Viet Nam" OR "West Bank" OR "Gaza" OR "Yemen" OR "Zambia" OR "Zimbabwe"

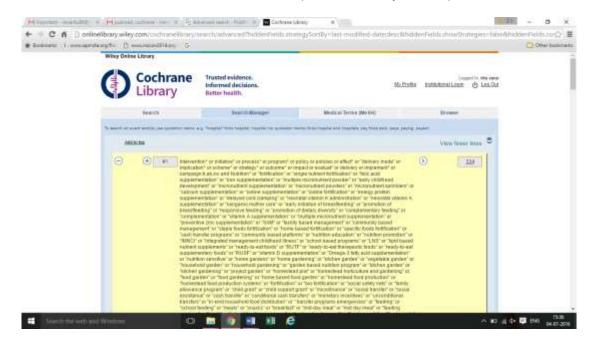
## STUDY DESIGN

"systematic review" OR "SLR" OR meta-analysis\* OR meta-review\* OR meta-regression\* OR meta-synthesis\* OR "realistic review" OR "descriptive review" OR "research review" OR "thematic review" OR "explanatory review" OR "narrative review" OR "integrative review" OR "mixed method review" OR "qualitative review" OR "research synthesis" OR "evaluation review" OR "evidence mapping" OR "evidence map review" OR "impact review"

#### **EXAMPLE OF SEARCH CONDUCTED ON DATABASE (PUBMED, 203 hits)**



#### **EXAMPLE OF SEARCH CONDUCTED ON DATABASE (Cochrane Library, 334 hits)**



## APPENDIX 2.4: QUALITY ASSESSMENT TOOL

#### **Items**

#### 1. Was an 'a priori' design provided?

- a) 'A priori' design
- b) Statement of inclusion criteria
- c) PICO/PIPO research question (population, intervention, comparison, prediction, outcome)

#### 2. Was there duplicate study selection and data extraction?

- a) There should be at least 2 independent data extractors as stated or implied
- b) Statement of recognition or awareness of consensus procedure for disagreement
- c) Disagreements among extractors resolved properly as stated or implied

#### 3. Was a comprehensive literature search performed?

- a) At least 2 electronic sources should be searched
- b) The report must include years and databases used (e.g. CENTRAL, MEDLINE, EMBASE)
- c) Keywords or MESH terms (or both) must be stated AND where feasible the search strategy outline should be provided such that one can trace the filtering process of the included articles
- d) In addition to the electronic database (PubMed, ,MEDLINE, EMBASE), all searches should be supplemented by consulting current contents, review, textbooks, specialized registers, or experts in the particular field of study, and by reviewing the references in the studies found.
- e) Journals were "hand –searched" or "manual searched" (i.e. identifying highly relevant journals and conducting a manual, page by page search by their entire contents looking for potentially eligible studies)

#### 4. Was the status of publication (i.e. grey literature) used as an inclusion criterion?

- a) The authors should state that they searched for reports regardless of their publication type
- b) He authors should state whether or not they excluded any reports (from the systematic review), based on their publication status, language, etc.
- c) "Non -English papers were translated" or readers sufficiently trained in foreign language
- d) No language restriction or recognition of non-English articles

## 5. Was a list of studies (included or excluded) provided?

- a) Table/list/figure of included studies, a reference list does not suffice
- Table/ list/ figure of excluded studies, either in the article or in a supplement source (i.e. online). (Excluded studies refer to those studies seriously considered on the basis of title and/or abstract, but rejected after reading the body of the text)
- c) Author satisfactorily/ sufficiently stated the reason for exclusion of the seriously considered studies
- d) Reader was able to retrace the included and excluded studies anywhere in the article bibliography, reference or supplemental source

## 6. Were the characteristics of the included studies provided?

- a) In an aggregated form such as a table, data from the original studies should be provided on the participants, intervention and outcomes.
- b) Provide the ranges of relevant characteristics in the studies analysed (e.g. age, race, sex, relevant socio economic data, disease status, duration, severity or other diseases should be reported)
- The information provided appears to be complete and accurate (i.e. there was a tolerable range of subjectivity here. Is the reader left wondering? If so, state the needed information and reasoning)

#### 7. Was the scientific quality of the included studies assessed and documented?

- a) 'A priori' method of assessment should be provided (e.g. for effectiveness studies if the author(s) chose to include only randomized, double- blind, placebo controlled studies, or allocation concealment as inclusion criteria); for other types of studies alternative items will be relevant
- b) The scientific quality of the included studies appeared to be meaningful
- c) Discussion/recognition/awareness of level of evidence
- d) Quality of evidence should be rated/ ranked based on the characterized instruments, (Characterized instrument is a created instrument that ranks the level of evidence. e.g. GRADE (Grading of Recommendations Assessment, Development and Evaluation)

#### 8. Was the scientific quality of the included studies used appropriately in formulating conclusions?

- a) The results of the methodological rigor and scientific quality should be considered in the analysis and the conclusion of the review
- b) The results of the methodological rigor and scientific quality were explicitly stated in formulating recommendations
- c) To have conclusions integrated/ drives towards a clinical consensus statement
- d) This clinical consensus statement drives towards revision or confirmation of clinical practice guidelines

#### 9. Were the methods used to combine the findings of studies appropriate?

- a) Statement of criteria that were used to decide that the studies analysed were similar enough to be pooled?
- b) For the pooled results, a test should be done to ensure studies were combinable, to assess their homogeneity (i.e. Chi2 test for homogeneity, I2 statistics)
- c) Is there a recognition of heterogeneity of lack of thereof
- d) If heterogeneity exists a "random- effects model" should be used or the rationale (i.e. clinical appropriateness) of combining should be taken into consideration (i.e. is it sensible to combine?), or stated explicitly (or both)
- e) If homogeneity exists, author should state a rationale or a statistical test

## 10. Was the likelihood of the publication bias (a.k.a "file drawer" effect) assessed?

- a) Recognition of publication bias or file drawer effect
- b) An assessment of publication bias should include graphical aids (e.g. funnel plot, other available tests)
- c) Statistical tests (e.g. Egger regression test)

## 11. Was the conflict of interest stated?

- a) Statement of sources of support
- b) No conflict of interest. This is subjective and may require some deduction or searching
- c) An awareness/ statement of support or conflict of interest in the primary inclusion studies

## APPENDIX 2.5: DATA EXTRACTION TOOL

Part 1: Full text screening sheet

Part 2: Data extraction sheet for the included full text of systematic reviews

## PART 1

## 1. Full test screening sheet

Screening	Full text ( )	
Study ID:	Data extractor ID:	Date form completed:
First author:	Year of study:	
Citation:		

## 1.1 General information

Publication type: Jo	ournal article ( ) Conference presentation ( ) Other (specify)		
Funding source of syste	ematic review:		
Potential conflict of inte	Potential conflict of interest from funding: Yes ( ) No ( ) unclear ( )		
Title:			
Aim/objectives:			
Setting:			
Search Period:			

## 1.2 Systematic review eligibility

Systematic review characterises			Page/Para/ Figure No.
Type of study (review authors to	Is it a systematic review: Yes		
add/remove designs based on criteria specified in the protocol)	Description:		
Population	Population Specify population (as mentioned in the systematic review) included:		
	Does the population meet the criteria for inclusion?		
	Yes ( ) No ( ) $\rightarrow$ Exclude Un	iclear ( )	
Intervention	Intervention included:  Does the intervention meet the criteria for inclusion?  Yes ( ) No ( ) → Exclude Unclear ( )		
Outcomes	Tick mark outcomes mentioned in systematic review: Primary outcomes  Reduction in nutritional issues such as wasting, stunting, underweight, chronic energy deficiency, micronutrient deficiencies (anaemia, zinc, iodine, iron, vitamin A, vitamin B <sub>12</sub> ,	Other outcomes: List the outcomes as defined in systematic review	

folic acid) and		
improvement in		
adequate dietary intakes		
of nutrients		
Secondary outcomes		
<ul> <li>Improvements in</li> </ul>		
functional capacity:		
cognition, capacity to		
work, work efficiency		
Morbidity: Reduction in		
disease burden-		
overweight, obesity,		
diarrheal diseases,		
respiratory tract		
diseases		
<ul> <li>Mortality</li> </ul>		
Do the outcome meet the	Yes ( ) No ( ) → Exclude	
criteria for inclusion	Unclear ( )	

# 1.3 Summary of assessment for inclusion

Include in overview ( )	Exclude from overview ( )	
Independently assessed, and then compared	Differences resolved by discussion	
Yes ( ) No ( )	Yes ( ) No ( ) Not Applicable ( )	
Differences resolved by considering opinion of third	Third investigator ID:	
investigator		
Yes ( ) Not applicable ( )		
Request further details	Contact details of systematic review authors:	
Yes ( ) No ( )		
Any reply from systematic review authors		
Reason for exclusion/inclusion		

## PART 2

# 2 Data extraction sheet for the included full text of systematic reviews

Study ID:	Data extractor ID:	Date form completed:
First author:	Year of study:	
Citation:		

## 2.1 General information

Publication type:	Journal article ( ) Conference presentation ( ) Other (specify)
Funding source for t	he study:
Potential conflict of	interest from funding: Yes ( ) No ( ) unclear ( )
Country (ies):	
Setting:	
Title:	
Aim/objectives:	
Relevant references	from systematic review to be traced:
1.	
2.	
3.	

Inclusion and exclusion criteria of systematic review	
Study design:	
Participants:	
Interventions:	
Comparison:	
Outcome:	
Study design included and number of studies:	

## 2.2 Participants

Participants	Information for each group	Page/Para/ Figure No.
Participants	Specify the population (as mentioned in systematic review) included:	
Number of participants in the review		
Area covered (households, district etc.)		
Rural or urban		
Number of participants considered for analysis of the review		
Age (provide mean or median or range)		

# 2.3 Intervention (Intervention 1)

Intervention	Nutrition specific intervention	Page/Para/ Figure No.
Description of intervention (as defined in the systematic review)		Tigure No.
Co-intervention if any	Any other intervention apart from nutrition	
Theoretical basis (include key references)	Is theoretical framework for designing the interventions explicitly mentioned? No If yes, whether intervention include single theoretical framework or multiple frameworks are grouped together. Which theories are used? [include with references]	
Did the intervention include strategies to improve nutritional status of children by improving dietary intake and feeding practices	If yes, describe:	
Level at which intervention delivered-	Group/Community	
Place where intervention delivered-	Setting: facility/institution, home, community etc.	
Duration of delivery	Frequency (weekly/monthly/yearly): Duration (weekly/monthly/yearly):	
Medium of delivery		
Subgroups	Describe if any subgroup is considered in the review	
Control/comparison		
Other factors (given along with		

nutrition) which can influence	
the outcome	

Note: This table will be extended if there are more interventions in the systematic review (e.g. Nutrition sensitive interventions)

#### 2.4 Outcomes

## List the outcomes assessed by systematic review

## Outcome 1

Question	Page/Para/ Figure No.
Outcome defined	
Number of studies included in systematic review specific to	
this outcome	
Number of participants specific to this outcome	
At which level the outcome (individual/group) is measured	
Time points measured	
Time points reported	
How is the outcome reported	
Self or study assessor	
Cost of source of external support reported?	

Note: This table will be extended if there are more outcomes in the systematic review

# 2.5 Quantitative analysis Outcome 1

Results			Page/Para/ Figure No.
Whether meta-analysis performed	Yes ( ) No ( )		
If no meta-analysis, reasons for the same			
If meta-analysis performed, effect measures			
Heterogeneity	Identified Not identified	Test used Results	
Homogeneity	Identified Not identified	Test used Results	
GRADE			
ITT (Intention to treat analysis)	Yes ( ) No ( )	Description	
If no meta-analysis, describe the result		·	
Conclusion			

Note: This table will be extended if analysis is performed for more than one outcome

## 2.6 Methodological quality

Risk of bias	Tool used	
	Description	

Effectiveness of nutrition interventions if mentioned in the discussion criteria	
Conclusion of systematic review	
Recommendations	

## APPENDIX 2.6: LIST OF STAKEHOLDERS

Organization	Office	Contact person	Designation	Address
BMGF	India	Nachiket Mor	Director, India Office	Bill & Melinda Gates Foundation, Capital Court, 3rd Floor, Olof Palme Marg, Munirka, Delhi 91-11-4713-8800 http://www.gatesfoundation .org/Where-We-Work
BRAC	Nepal	Rafiqul Islam	Country Representative	BRAC Nepal: Pavitra Niwas, Chapali Bhadrakali 08, Budhanilkantha, Kathmandu, Nepal. Phone: 977 9861482772. E-mail: info@brac.net
	Pakistan	Muzaffar Uddin	Country Representative	Muzaffar Uddin Country Representative Plot No. 05, Street No. 09, Fayyaz Market Sector G-8/2 Islamabad Pakistan Tel: 92 51 2263376-80 E-mail: bracpakistan@brac.net
	Afghanistan	M Anowar Hossain	Country Representative	House # 472, Lane # 2 Hazi Mir Ahmed Street Baharistan, Karte Parwan Kabul Afghanistan Cell: 93 (0) 700288300 Email: hossain.anowar@brac.net
	Myanmar	Kazi Faisalbin Seraj	Country Representative	Kyun Shwe Myaing-2 Street Boyoke Ywa, Thingangyun Township Yangon, Myanmar Tel: 95(1) 578236
	Bangladesh (Hq)	Faruque Ahmed	Executive Director BRAC International	BRAC Centre, 75 Mohakhali, Dhaka-1212, Bangladesh Tel: 880-2-9881265, 8824180-7. Ext: 3155, 3107, 3161 E-mail: info@brac.net
DFID	South Asia	-	-	DFID South Asia Research Hub (SARH) British High Commission, Shantipath, Chanakyapuri, New Delhi, 110021, India Phone: +91 11 2419 2100
FAO	Afghanistan	Shichiri, Mr Tomio	FAO Representative	www.fao.org/countryprofiles /index/en/?iso3=AFG
	Bangladesh	Robson, Mr Michael Thomas	FAO Representative	Email: FAO-BD@fao.org www.fao.org/bangladesh
	India	Khadka, Mr Shyam Bahadur	FAO Representative	Email:fao-in@fao.org www.fao.org/india

Nepal   Pipopinyo, Mr   Sonsak   PAO   Email: FAO-NP@fao.org   Evans, Mr Patrick   FAO   Email: FAO-NP@fao.org   www.fao.org/nepal   Evans, Mr Patrick   FAO   Email: FAO-PK@fao.org   www.fao.org/nepal   Evans, Mr Patrick   FAO   Email: FAO-PK@fao.org   Email: FAO-PK@fao.org   www.fao.org/nepal   Evans, Mr Patrick   FAO   Email: FAO-PK@fao.org   Email: FAO-PK@fao.org   www.fao.org/nepal   Evans, org/nepal	Nepal   Pipopinyo, Mr   Somsak   Representative   Email: FAO-NP@fao.org   Ewans, Mr Patrick   FAO   Email: FAO-NP@fao.org   www.fao.org/nepal   Evans, Mr Patrick   FAO   Email: FAO-Pk@fao.org   www.fao.org/nepal   Ewans, Mr Patrick   FAO   Email: FAO-Pk@fao.org   www.fao.org/nepal					T = 11 = 1 = 1 = 1
Pakistan   Evans, Mr Patrick   FAO   Representative   Email: FAO-NP@fao.org   www.fao.org/nepal   mail: FAO-NP@fao.org   www.fao.org/nepalstan   mail: FAO-NP@fao.org   mail: FAO-NP@fao.org   mww.fao.org/nepalstan   mail: FAO-NP@fao.org   mww.fao.org/nepalstan   mww.fao.org   mww.fao.org/nepalstan   mww.fao.org   mww.fa	Pakistan   Evans, Mr Patrick   FAO   Representative   Email: FAO-NP@Fao.org   www.fao.org/nepal   memil: FAO-NP@Fao.org   www.fao.org/nepal   memil: FAO-NP@Fao.org   www.fao.org/nepal   memil: FAO-NP@Fao.org   www.fao.org/nepal   memil: FAO-NP@Fao.org   memil: FAO-NP.@Fao.org   memil: FAO-NP.@Fao		Myanmar	Bui, Ms Lan Thi	FAO Representative	Email: FAO-MM@fao.org
Somsak   Representative   Evans, Mr Patrick   FAO   Evans, Mr Patrick   FAO   Evans, Mr Patrick   FAO   Email: FAO-PK@fao.org   www.fao.org/pakistan   FHI 360   Bangladesh   Shamim Jahan   Chief of Party, SIKHA Project   Telephone: 488.02.9887561   Email: sjahan@fhi360.org   FHI 360 Bangladesh 1212   Telephone: 488.02.9887561   Email: sjahan@fhi360.org   FHI 360 India Office, H-5   Green Park Extension   Ground Floor New Delhi 110   O16 India   Telephone: 491.11.4048.7777   Email: becorge effhi360.org   FHI 360 Myanmar   Khin Zarli Aye   Country   Director   FHI 360 Myanmar   Elephone: 491.11.4048.7777   Email: becorge effhi360.org   FHI 360 Myanmar   Telephone: 495.1.666 432   Email: Kakv@fhi360.org   FHI 360 Myanmar   Telephone: 497.1.43713   Telephone: 497.1.437173   Email: spandewghorg   FHI 360 Mayanmar   Telephone: 497.1.437173   Email: spandewghorg   FHI 360 Mayanmar   Telephone: 497.1.437173   Email: spandewgfhi360.org   FHI 360 Mayanmar   Telephone: 497.1.437173   Email: spandewgfhi360.org   FHI 360 Mayanmar   Telephone: 497.1.4437173   Email: spandewgfhi360.org   FHI 360 Mayanmar   Telephone: 497.1.4437173   Email: spandewgfhi360.org   Telephon: 497.1.4437173   Email: spandewgfhi360.org   Telephon: 497.1.4437173   Teleph	Somsak   Representative   FAO   Evans, Mr Patrick   FAO   Evans, Mr Patrick   FAO   Representative   Email: FAO-PK@fao.org   www.fao.org/pakistan   FHI 360   Bangladesh   Shamim Jahan   Chief of Party, SIKHA Project   Rod 35 House 5, Gulshan 2   Dhaka, Bangladesh Office   Rod 35 House 5, Gulshan 2   Dhaka, Bangladesh 1212   Telephone: +88.02.9887561   Email: sjahan@fhis50.org   FHI 360 India Office, H-5   Green Park Extension   Ground Floor New Delhi 110   U16 India   Telephone: +91.11.4048.7777   Email: beeorge@fhis60.org   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Vangon, Myanmar   Telephone: +95.166 432   Email: KAye@fhi360.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93.1078.8543765   Email: WOmar@uswdp.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93.166 432   Email: WOmar@uswdp.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93.166 432   Email: WOmar@uswdp.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93.166 432   Email: WOmar@uswdp.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93.166 432   Email: WOmar@uswdp.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93.166 000   Sox 5161, Central Post   Office, GPO   Box 803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +977.1.4437173   Email: Spandev@fhis60.org   Spandev@fhis60.org   Telephone: +977.1.4437173   Email: Spandev@fhis60.org   Telephone: +977.1.4437173   Email: Spandev@fhis60.org   Telephone: +977.1.4437173   Temail: Spandev@fhis60.org   Telephone: +977.1.443		Nenal	Pinonninyo Mr	-	
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Representative	FHI360   Bangladesh   Shamim Jahan   Chief of Party, SIKHA Project   SIKHA Project   Dhaka, Bangladesh Office   Road 35 House 5, Gulshan 2   Dhaka, Bangladesh 1212   Telephone: +88.02.9887561   Email: sjahan@Phi360.org   FHI 360 India Office, H-5   Green Park Extension   Ground Floor New Delhi 110   O16 India   Telephone: +98.02.9887561   Email: sjahan@Phi360.org   FHI 360 India Office, H-5   Green Park Extension   Ground Floor New Delhi 110   O16 India   Telephone: +91.11.4048.7777   Email: bjecorge@fhi360.org   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Vangon, Myanmar   Telephone: +93.166 432   Email: Kaye@fhi360.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93.07/38584765   Email: WOmar@uswdp.org   Program   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +97.1.4437173   Email: Sgandey@fhi360.org   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +97.1.4437173   Email: Sgandey@fhi360.org   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +97.1.4437173   Email: Sgandey@fhi360.org   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +97.1.4437173   Email: Sgandey@fhi360.org   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +97.1.4437173   Email: Sgandey@fhi360.org   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +97.1.4437173   Email: Sgandey@fhi360.org   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +97.1.4437173   Email: Sgandey@fhi360.org   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal   Telephone: +97.1.4437173   Telephone		Pakistan	Evans. Mr Patrick	-	
FHI360   Bangladesh   Shamim Jahan   Chief of Party, SIKHA Project   Road 35 House 5, Gulshan 2 Dhaka, Bangladesh 1212 Telephone: +88.02.988756   Email: sjahan@fhi360.org   FHI 360 India Office, H-5 Green Park Extension Ground Floor New Delhi 110 016 India Telephone: +91.11.4048.7777   Email: bgeorge@fhi360.org   FHI 360 Myanmar (Burma)   FII 360 Myan	FHI 360 Bangladesh		. a.u.stari			
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India   Bitra George   Country   Email: spannaghl 360.org   FHI 360 India Office, H-5   Green Park Extension   Ground Floor New Delhi 110   O16 India   Telephone: +91.11.4048.7777   Email: bpeorge@fhi360.org   FHI 360 Myanmar (Burma)   Director   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Yangon, Myanmar   Telephone: +95.1.666 432   Email: Kaye@fhi360.org   FMI 360 Myanmar   Telephone: +95.1.666 432   Email: Kaye@fhi360.org   FMI 360 Myanmar   Telephone: +95.1.666 432   Email: Kaye@fhi360.org   FMI 360 Myanmar   Telephone: +95.1.666 432   Email: Myanmar   Telephone: +95.1.666 432   E	India Bitra George Country Director Development Director Country Director Country Director Development Dire		J			_
India  Bitra George  Country Director  Fil 360 India Office, H-5 Green Park Extension Ground Floor New Delhi 110 016 India Telephone: +91.11.4048.7777 Email: bgeorge@fhi360.org HJ 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: Kaye@fhi360.org Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: Kaye@fhi360.org Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: Kaye@fhi360.org Township, Yangon, Myanmar Telephone: +97.1.666 432 Email: Kaye@fhi360.org Township, Yangon, Myanmar Telephone: +97.1.666 432 Email: Kaye@fhi360.org Township, Yangon, Myanmar Telephone: +93(0)785854765 Development Program  Nepal  Satish Raj Pandey Country Director  Nepal  Afghanistan  Nepal  Afghanistan  Afghanistan  Afghanistan  Afghanistan  T +93 20 22 00 773  Bangladesh Rudaba Khondker  Country Director  Bangladesh Rudaba Khondker  Country Director  Dhaka, Bangladesh, Flat No. A = 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229 Ba, AMAN New Delhi, India, Suite 15 Ba, BA, AMAN New Delhi	India  India  Bitra George  Country Director  FHi 360 India Office, H-5 Green Park Extension Ground Floor New Delhi 110 O16 India Telephone: +91.11.4048.7777 Email: bgeorge@fhi360.org FHi 360 Myanmar (Burma) Director  Myanmar  Khin Zarli Aye  Country Director  Afghanistan  Afghanistan  Wahid Omar  Chief of Party, University Support and Workforce Development Program  Nepal  Satish Raj Pandey  Country Director  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Remail: wOmar@uswdp.org FHi 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@thi360.org Final: WOmar@uswdp.org Final: Kave@hia560.org Final: Kave@hia				<b>5</b>	
India   Bitra George   Country   FHI 360 India Office, H5-5   Green Park Extension   Ground Floor New Delhi 110   O16 India Telephone: +91.11.4048.777   Email: bgeorge@fhi360.org   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Yangon, Myanmar Telephone: +95.1.666 432   Email: Kaye@fhi360.org   FHI 360 Myangon   Township, Yangon, Myanmar Telephone: +95.1.666 432   Email: Kaye@fhi360.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93(0)785854765   Email: WOmar@uswdp.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +93(0)785854765   Email: WOmar@uswdp.org   P.O. Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandeyfhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandeyfhi360.org   Kabul, Afghanistan   Telephone: +977.1.4437173   Email: spandeyfhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandeyfhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandeyfhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandeyfhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: Spandeyfhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: Spandeyfhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: Spandeyfhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawam, Anamika Galli Ward-4   Baluwatar	India  Bitra George  Country Director  Green Park Extension Ground Floor New Delhi 110 016 India Telephone: +91.11.4048.7777 Email: bgeorge@fhi360.org FHI 360 Myanmar (Burma) Office, 133 Mawyawaddi Streete, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +951.166 432 Email: Kaye@mis60.org FHI 360 Myanmar (Burma) Office, 133 Mawyawaddi Streete, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +951.166 432 Email: Kaye@mis60.org P-0. Box 5161, Central Post Morkforce Development Program  Nepal  Satish Raj Pandey Country Director  Nepal  Satish Raj Pandey Country Director  Afghanistan  -  GAIN  Afghanistan  Afghanistan  -  -  Rabul, Afghanistan  -  -  Rabul, Afghanistan  -  -  Rabul, Afghanistan  Telephone: +9771.4437173 Email: spandey@fhi360.org FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +9771.4437173 Email: spandey@fhi360.org FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +9771.4437173 Email: spandey@fhi360.org FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +9771.4437173 Email: spandey@fhi360.org FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +9771.4437173 Email: spandey@fhi360.org FHI 360 Nepal Office, 132 Farail Womar@uswdp.org FI 360					
India  Bitra George  Country Director  FHI 360 India Office, H-5 Green Park Extension Ground Floor New Delhi 110 016 India Telephone: +91.11.4048.7777 Email: bgeorge@fhi360.org HI 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: Telephone: -951.666 432 Email: KAye@fhi360.org P.O. Box 5161, Central Post Office, Sabul, Afghanistan Wahid Omar  Chief of Party, University Support and Workforce Development Program  Nepal  Satish Raj Pandey Country Director  Nepal  Satish Raj Pandey Country Director  FHI 360 Myanmar (Burma) Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Balluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org Kabul, Afghanistan, 302, Street 6, Movoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh Rudaba Khondker Country Director  Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(8) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229 New Delhi, India, Suite 15	India  Bitra George  Country Director  Green Park Extension Ground Floor New Delhi 110 016 India Telephone: +91.11.4048.7777 Email: becorge@fhi360.org FHI 360 Myanmar (Burma) Director  Myanmar  Khin Zarli Aye  Country Director  Afghanistan  Afghanistan  Wahid Omar  Chief of Party, University Support and Workforce Development Program  Nepal  Satish Raj Pandey  Country Director  Nepal  Satish Raj Pandey  Country Director  Afghanistan  Afghanistan  Afghanistan  Afghanistan  -  Satish Raj Pandey  Country Director  Box 8803 Gopal Bhawan, Anamika Galli Ward-A Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org Box 8803 Gopal Bhawan, Anamika Galli Ward-A Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN  Afghanistan  -  Sabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan  T-93 20 22 20 0773  Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T+880 171 94 00 229  New Delhi, India, Suite 15 AB, AMAN New Delhi Lodhi Road, New Delhi Lodni Road, New Delhi Lodn					
Director Green Park Extension Ground Floor New Delhi 110 016 India Telephone: +91.14,048.7777 Email: bgeorge@fhi360.org  Myanmar Khin Zarli Aye Country Director FHI 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Vangon, Myanmar Telephone: +95.1.666 432 Email: KAye@fhi360.org  Afghanistan Wahid Omar Chief of Party, University Support and Workforce Development Program Fleiphone: +93.10,785854765 Email: WOmar@uswdp.org Program Fleiphone: +93.00,785854765 Email: WOmar@uswdp.org Program Fleiphone: +977.1.4437173 Email: spandey@fhi360.org Abghanistan Telephone: +977.1.4437173 Email: spandey@fhi360.org Rabul, Afghanistan Telephone: +977.1.4437173 Email: spandey@fh	Director  Green Park Extension Ground Floor New Delhi 110 016 India Telephone: +91.11.4048.7777 Email: bzeorge@fhi360.org FHI 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: Kaye@fhi360.org Afghanistan  Wahid Omar  Afghanistan  Wahid Omar  Chief of Party, University Support and Workforce Development Program  Nepal  Satish Raj Pandey  Country Director  Nepal  Satish Raj Pandey  Country Director  FHI 360 Nepal Office, GPO Box 8303 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.14437173 Email: spandey@fhi360.org  GAIN  Afghanistan  -  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan  T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeelal Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229 Bangladesh T +91 11 43147575		India	Bitra George	Country	
Myanmar   Khin Zarli Aye   Country   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Yangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   P.O. Box 5161, Central Post   Office, Kablu, Afghanistan   Wahid Omar   Chief of Party, University   Office, Kablu, Afghanistan   Telephone: +93(0)785854765   Email: WOmar@uswdp.org   Program   Program   Satish Raj Pandey   Country   Director   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey Mila Solorg   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey Mila Solorg   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey Mila Solorg   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +93(0)785854765   Email: spandey Mila Solorg   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anami	Myanmar   Khin Zarli Aye   Country   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Vangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Vangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +97.1.463 Myangone   Township, Vangon, Myanmar   Telephone: +97.1.463 Myangone   Township, Vangon, Myanmar   Telephone: +97.1.463 Myangone   Teleph				Director	Green Park Extension
Myanmar   Khin Zarli Aye   Country   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Yangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   P.O. Box 5161, Central Post   Office, Kablu, Afghanistan   Wahid Omar   Chief of Party, University   Office, Kablu, Afghanistan   Telephone: +93(0)785854765   Email: WOmar@uswdp.org   Program   Program   Satish Raj Pandey   Country   Director   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey Mila Solorg   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey Mila Solorg   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey Mila Solorg   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +93(0)785854765   Email: spandey Mila Solorg   FMI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anami	Myanmar   Khin Zarli Aye   Country   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Vangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Vangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Telephone: +97.1.463 Myangone   Township, Vangon, Myanmar   Telephone: +97.1.463 Myangone   Township, Vangon, Myanmar   Telephone: +97.1.463 Myangone   Teleph					Ground Floor New Delhi 110
Telephone: +91.11.4048.7777 Email: bgeorge@fhi360.org  Myanmar  Khin Zarli Aye  Country Director  FHI 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: KAye@fhi360.org P.O. Box 5161, Central Post Office, Kabul, Afghanistan Telephone: +93.078584765 Email: WOmar@uswdp.org Program  Nepal  Satish Raj Pandey  Country Director  Nepal  Satish Raj Pandey  Country Director  FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: Spandev@fhi360.org Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  Bangladesh File Director  Telephone: 493(0)785854765 Email: WOmar@uswdp.org FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: Spandev@fhi360.org Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Dhaka, Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229 New Delhi, India, Suite 15 AB, AMAN New Delhi	Myanmar   Khin Zarli Aye   Country   FHI 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: Kaye@fhi360.org   P.O. Box 5161, Central Post Office, Kabul, Afghanistan Wahid Omar   Chief of Party, University Support and Workforce Development Program   Poss 5161, Central Post Office, Kabul, Afghanistan Telephone: +93(0)785854765   Email: WOmar@uswdp.org Program   WOmar@uswdp.org Program   FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   Kabul, Afghanistan					016 India
H91.11.4048.7777 Email: bgeorge@fhi360.org FHI 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: KAye@fhi360.org P.O. Box 5161, Central Post Office, Kabul, Afghanistan Wahid Omar Chief of Party, University Support and Workforce Development Program Nepal Satish Raj Pandey Country Director FHI 360 Nepal Office, GPO Box 8803 Gogal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +97.1.4437173 Email: spandey@fhi360.org Rabul, Afghanistan T-lephone: +97.1.4437173 Email: spandey@fhi360.org Rabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773 Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229 New Delhi, India, Suite 15 AB, AMAN New Delhi	Myanmar  Myanmar  Myanmar  Khin Zarli Aye  Country Director  Fill 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: Maye@hil360.org P.O. Box 5161, Central Post Office, Kabul, Afghanistan Telephone: +95.1.666 432 Email: Maye@hil360.org P.O. Box 5161, Central Post Office, Kabul, Afghanistan Telephone: +93(0)785854765 Email: WOmar@uswdp.org Fill 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fil360.org Kabul, Afghanistan  Afghanistan  Afghanistan  -  Kabul, Afghanistan T+93 20 22 00 773 Dhaka, Bangladesh, Flat No. A – 3 (376 floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T+880 171 94 00 229 New Delhi, India, Suite 15 AB, AMAN New Delhi Lodhi Road, New Delhi 110003, India T+911 d 3147575					
Myanmar   Khin Zarli Aye   Country   Director   FHI 360 Myanmar (Burma)   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Yangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Wahid Omar   Chief of Party, University   Office, Kabul, Afghanistan   Telephone: +93(0)785854765   Email: WOmar@uswdp.org   Program   Pro	Myanmar   Khin Zarli Aye   Country   Director   FHI 360 Myanmar (Burma)   Office, 133 Mayyawaddi   Street, 8 Mile, Mayangone   Township, Yangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   P.O. Box 5161, Central Post   Office, Kabul, Afghanistan   Validation   Program   Progr					
Myanmar Khin Zarli Aye Director SHI 360 Myanmar (Burma) Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: KAye@fhi360.org  Afghanistan Wahid Omar Chief of Party, University Support and Workforce Development Program Post Satish Raj Pandey Country Director FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN Afghanistan - Stabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e-Fatehullah Khan, Kabul, Afghanistan T+93 20 22 00 773  Bangladesh Rudaba Khondker Country Director Director Asia Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T+880 171 94 00 229  India Tarun Vij Country Director AB, AMAN New Delhi	Myanmar   Khin Zarli Aye   Country   Director   Office, 133 Mawyawaddi   Street, 8 Mile, Mayangone   Township, Yangon, Myanmar   Telephone: +95.1.666 432   Email: KAye@fhi360.org   P.O. Box 5161, Central Post Office, Kabul, Afghanistan   Wahid Omar   Chief of Party, University   Support and Workforce   Howard Horger   Howard Howard Horger   Howard					
Director  Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: KAye@fhi360.org  Afghanistan  Afghanistan  Wahid Omar  Chief of Party, University Support and Workforce Development Program  Nepal  Satish Raj Pandey  Country Director  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  -  GAIN  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e-Fatehullah Khan, Kabul, Afghanistan  T+93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  Dhaka, Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh  T+880 171 94 00 229  India  Tarun Vij  Country Director  AB, AMAN New Delhi, India, Suite 15 AB, AMAN New Delhi	Director  Office, 133 Mawyawaddi Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: KAye@fhi360.org P.O. Box 5161, Central Post Office, Kabul, Afghanistan Variore Program  Nepal  Nepal  Satish Raj Pandey  Nepal  Satish Raj Pandey  Ocountry Director  Nepal  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Bangladesh  Rudaba Khondker  Country Director  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Bangladesh  Rudaba Khondker  Country Director  Afghanistan  Anamika Galli Ward-4  Baluwatar, kathmandu Nepal  Baluwat		Myanmar	Khin Zarli Ave	Country	
Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: KAye@fhi360.org P.O. Box 5161, Central Post Office, Kabul, Afghanistan Vorkforce Development Program Pogram Femail: WOmar@uswdp.org Email: WOmar@uswdp.org P.O. Box 5161, Central Post Office, Kabul, Afghanistan Telephone: +93(0)785854765 Email: WOmar@uswdp.org Femail: WOmar@uswdp.org Pogram Program	Street, 8 Mile, Mayangone Township, Yangon, Myanmar Telephone: +95.1.666 432 Email: KAye@fhi360.org  Afghanistan  Afghanistan  Nepal  Nepal  Satish Raj Pandey  Country Director  Afghanistan  Afghanistan  Afghanistan  Nepal  Satish Raj Pandey  Country Director  Afghanistan  Afghanistan  -  Country Director  Afghanistan  -  Satish Raj Pandey  Country Director  Afghanistan  -  Country Director  Bangladesh  Rudaba Khondker  Country Director  Bangladesh  Afghanistan  T-93 20 22 00 773  Bangladesh  Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T+880 171 94 00 229  India  Tarun Vij  Country Director  Ag, AMAN New Delhi Lodhi Road, New Delhi		, ammai	Zarii / ty C	•	
Afghanistan  Anamika (Arghanistan Wahid Omar  Anamika (Arghanistan Telephone: +93.(0)785.854765    Development Program  Anamika (Arghanistan Telephone: +93.(0)785.854765    Email: WOmar@uswdp.org  FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173    Email: spandey@fhi360.org  Afghanistan  -  Afghanistan  Afghanistan  -  Afghanistan  T +93 20 22 00 773  Bangladesh  Armi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T+880 171 94 00 229  India  Tarun Vij  Country  Director  Ag, AMAN New Delhi india, Suite 15 AB, AMAN New Delhi	Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afghanistan  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Afgha				Birector	
Telephone: +95.1.666 432 Email: KAye@fhi360.org  Afghanistan  Wahid Omar  Chief of Party, University Support and Workforce Development Program  Nepal  Satish Raj Pandey  Country Director  FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan  T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij Country Director New Delhi, India, Suite 15 AB, AMAN New Delhi	Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +97.1.4437173  Email: spandey@fhi360.org  Afghanistan  Anami Nagaela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh  T+880 171 94 00 229  India  Anami Nagaela Naw Delhi Lodhi Road, New Delhi Lodhi Ro					
Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephon	Afghanistan  Anaile (Nepal Satish Raj Pandey)  Afghanistan  Aggelour  Abaul, Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Aggelour  Abaul, Afghanistan  Afghanistan  Afghanistan  Aggelour  Abaul, Afghanistan  Afghanistan  Aggelour  Abaul, Afghanistan  Aggelour  Aggelour  Abaul, Afghanistan  Aggelour  Abaul, Afghanistan  Aggelo					
Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Chief of Party, University Support and Workforce Development Program  Nepal  Nepal  Satish Raj Pandey  Country Director  Afghanistan  -  Afghanistan  -  Bangladesh  Rudaba Khondker  Bangladesh  Rudaba Khondker  India  Afghanistan  Chief of Party, University Support and Workforce Powelopment Program  FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  New Delhi, India, Suite 15 AB, AMAN New Delhi	Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173  Email: Spandey@hi360.org  Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Email: Spandey@hi360.org  Kabul, Afghanistan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Hoali Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Hoali Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Poglopical PHI 360 Nepal Office, GPO  Box 8803 Gopal Bhawan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Hoali Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Poglopical PH 360 Nepal Office, PD  Box 8803 Gopal Bhawan  Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Hoali Ward-4  Baluwatar, Varianis Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Hoali Ward-4  Baluwatar, Varianis Anamika Galli Ward-4  Baluwatar, Kathmandu Nepal  Telephone:  Hoali Ward-4  Baluwatar, Varianis Anamika Galli Ward-4  Baluwatar, Varianis Anamika Gal					· ·
University Support and Workforce Development Program  Nepal  Satish Raj Pandey  Country Director  Afghanistan  -  Kabul, Afghanistan Telephone: +93(0)785854765 Email: WOmar@uswdp.org  FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  New Delhi, India, Suite 15 AB, AMAN New Delhi	University Support and Workforce Development Program  Nepal  Satish Raj Pandey  Country Director  Afghanistan  -  Country Director  Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan  T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  A 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  AB, AMAN New Delhi Lodhi Road, New Delhi 110003, India T +91 11 43147575		Δfghanistan	Wahid Omar	Chief of Party	
Support and Workforce Development Program  Nepal Satish Raj Pandey Country Director FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN Afghanistan - Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e-Fatehullah Khan, Kabul, Afghanistan T+93 20 22 00 773  Bangladesh Rudaba Khondker Country Director A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T+880 171 94 00 229  India Tarun Vij Country Director New Delhi, India, Suite 15 AB, AMAN New Delhi	Support and Workforce Development Program  Nepal  Nepal  Satish Raj Pandey  Country Director  Afghanistan  Afghanistan  Bangladesh  Bangladesh  India  Tarun Vij  Telephone: +93(0)785854765 Email: WOmar@uswdp.org  FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T+93 20 22 00 773  Bangladesh T+830 171 94 00 229  India  Tarun Vij  Country Director  Ag, AMAN New Delhi Lodhi Road, New Delhi 110003, India T+91 11 43147575		Aighailistair	Warna Ornar		·
Workforce Development Program  Nepal  Satish Raj Pandey  Country Director  Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN  Afghanistan  Afghanistan  Afghanistan  Bangladesh  Rudaba Khondker  Country Director  Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Dhaka, Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij Country Director New Delhi, India, Suite 15 AB, AMAN New Delhi	Workforce Development Program  Nepal  Satish Raj Pandey  Nepal  Satish Raj Pandey  Country Director  Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan  Afghanistan  -  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh Rudaba Khondker  Country Director  Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  New Delhi, India, Suite 15 AB, AMAN New Delhi Lodhi Road, New Delhi Lodhi Road, New Delhi 110003, India T +91 11 43147575					_
Development Program  Nepal  Nepal  Satish Raj Pandey  Country Director  Program  Country Director  FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan  Afghanistan  Afghanistan  Bangladesh  Rudaba Khondker  Country Director  Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  New Delhi, India, Suite 15 AB, AMAN New Delhi	Development Program  Nepal  Satish Raj Pandey  Country Director  Satish Raj Pandey  Country Director  Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  Bangladesh  Rudaba Khondker  Country Director  A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  AB, AMAN New Delhi Lodhi Road, New Delhi Lodhi Road, New Delhi 110003, India T +91 11 43147575					·
Nepal   Satish Raj Pandey   Country   FHI 360 Nepal Office, GPO   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e-Fatehullah Khan, Kabul, Afghanistan T+93 20 22 00 773	Nepal   Satish Raj Pandey   Country   Director   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org					, ,
Nepal  Satish Raj Pandey  Director  Director  FHI 360 Nepal Office, GPO Box 8803 Gopal Bhawan, Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  New Delhi, India, Suite 15 AB, AMAN New Delhi	Nepal   Satish Raj Pandey   Country   Director   Box 8803 Gopal Bhawan, Anamika Galli Ward-4   Baluwatar, Kathmadu Nepal Telephone: +977.1.4437173   Email: spandey@fhi360.org   Email: spandey@fhi3				· ·	Lindii. Womare aswap.org
Anamika Galii Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN  Afghanistan  Afghanistan  Afghanistan  Bangladesh  Rudaba Khondker  Country Director  Bangladesh  Rudaba Khondker  Country Director  A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  A Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  New Delhi, India, Suite 15 AB, AMAN New Delhi	Anamika Galli Ward-4 Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN  Afghanistan  -  -  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  AB, AMAN New Delhi Lodhi Road, New Delhi		Nepal	Satish Raj Pandey		FHI 360 Nepal Office, GPO
Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN  Afghanistan  Afghanistan  Bangladesh  Bangladesh  Rudaba Khondker  Country Director  A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  Rabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  New Delhi, India, Suite 15 AB, AMAN New Delhi	Baluwatar, Kathmandu Nepal Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN  Afghanistan  - Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e-Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Country Director  A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  AB, AMAN New Delhi Lodhi Road, New Delhi Lodhi Road, New Delhi Lodhi Road, New Delhi – 110003, India T +91 11 43147575				Director	Box 8803 Gopal Bhawan,
GAIN  Afghanistan  Afghanistan  Bangladesh  Rudaba Khondker  Bangladesh  Rudaba Khondker  Country Director  A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Telephone: +977.1.4437173 Email: spandey@fhi360.org Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Dhaka, Bangladesh, Flat No. A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij Country Director AB, AMAN New Delhi	Telephone: +977.1.4437173 Email: spandey@fhi360.org  GAIN  Afghanistan  Afghanistan  Bangladesh  Rudaba Khondker  Country Director  Bangladesh  India  Tarun Vij  Country Director  Telephone: +977.1.4437173 Email: spandey@fhi360.org  Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Dhaka, Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  AB, AMAN New Delhi Lodhi Road, New Delhi Lodhi Road, New Delhi 110003, India T +91 11 43147575					Anamika Galli Ward-4
GAIN  Afghanistan  Afghanistan  Afghanistan  Bangladesh  Rudaba Khondker  Bangladesh  Rudaba Khondker  Bangladesh  Rudaba Khondker  Country  Director  A - 3 (3rd Floor), Suvastu  Asmi Nazeela Monor, House  # NE(B) 2/1, Road # 71 North  Gulshan 2, Dhaka-1212,  Bangladesh  T +880 171 94 00 229  India  Tarun Vij  Country  Director  AB, AMAN New Delhi	GAIN  Afghanistan  -  Bangladesh  Rudaba Khondker  Country Director  FNE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T+880 171 94 00 229  India  Tarun Vij  Country Director  Fmail: spandey@fhi360.org Kabul, Afghanistan, 302, Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T+93 20 22 00 773  Dhaka, Bangladesh, Flat No. A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  AB, AMAN New Delhi Lodhi Road, New Delhi 110003, India T +91 11 43147575					Baluwatar, Kathmandu Nepal
GAIN  Afghanistan  Afghanistan  Afghanistan  Afghanistan  Afghanistan  T +93 20 22 00 773  Bangladesh  Rudaba Khondker  Director  A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India  Tarun Vij  Country Director  A AB, AMAN New Delhi	GAIN  Afghanistan  Agghanistan  Afghanistan  Afghanistan  Agghanistan  Afghanistan  Agghanistan  Afghanistan  Agghanistan  Afghanistan  Afghanistan  Agghanistan  Afghanistan  Agghanistan  Afghanistan  Agghanistan  Afghanistan  Agghanistan  Agghanistan  Afghanistan  Agghanistan  Agghanistan  Agghanistan  Agghanistan  Afghanistan  Agghanistan					Telephone: +977.1.4437173
Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh Rudaba Khondker Country Director Director A – 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India Tarun Vij Country Director AB, AMAN New Delhi	Street 6, (Navoi Street), Lane 3, Police District 10, Qala-e- Fatehullah Khan, Kabul, Afghanistan T +93 20 22 00 773  Bangladesh Rudaba Khondker Country Director A - 3 (3rd Floor), Suvastu Asmi Nazeela Monor, House # NE(B) 2/1, Road # 71 North Gulshan 2, Dhaka-1212, Bangladesh T +880 171 94 00 229  India Tarun Vij Country Director AB, AMAN New Delhi Lodhi Road, New Delhi Lodhi Road, New Delhi – 110003, India T +91 11 43147575					-
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T +880 171 94 00 229  India Tarun Vij Country New Delhi, India, Suite 15 Director AB, AMAN New Delhi	India Tarun Vij Country New Delhi, India, Suite 15 Director AB, AMAN New Delhi Lodhi Road, New Delhi Lodhi Road, India T +91 11 43147575					
Director AB, AMAN New Delhi	Director AB, AMAN New Delhi Lodhi Road, New Delhi — 110003, India T +91 11 43147575					T +880 171 94 00 229
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			Pakistan	Sajjad Imran	Country	Islamabad, Pakistan, House
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			Director	No. 14, Street 37, Sector F- 7/1, Islamabad, Pakistan +92 51 831 3981-82
ICDDR,B	Bangladesh	Zulfiqar A. Bhutta	Child health and nutrition experts	GPO Box 128, Dhaka 1000, Bangladesh Phone: (+88 02) 9827001–10 Email: info@icddrb.org collaborati on@icddrb.org Email: zulfiqar.bhutta@sickkids.ca
LANSA	Afghanistan, Bangladesh, India, Pakistan	Madhura Swaminathan	Member of consortium steering group	Chairperson, 3rd Cross Street, Institutional Area, Taramani, Chennai 600 113, India Tel: +91 (44) 22541229, +91 (44) 22541698 Email: chairpersonpa@mssrf.res.in Email: madhura@isibang.ac.in http://www.lansasouthasia.o
MI	Afghanistan	Dr. M Ibrahim Shinwari	Director, Afghanistan	c/o South Asia Development Excellence, Consultants (SADEC), Charrahi Haji Yaqub, Doost Tower, Apartment 11, Kabul, Afghanistan Email: ishinwari@micronutrient.org
	Bangladesh	Dr. S. M. Mustafizur Rahman	Country Director, Bangladesh	Apartment 102, House 06 (Lake View), Road 104, Gulshan 2, Dhaka 1212, Bangladesh T: +880 2 989 9896, Ext 2013 Email: mmrahman@micronutrient.org
	India	Sucharita Dutta	Director, India	B-28, Qutab Institutional Area, 2nd Floor, Tara Crescent, New Delhi – 110016, India T: +91 11 46862000 Email: miindia@micronutrient.org
	Nepal	Macha Raja Maharjan	Director, Nepal	Uttar Dhoka Marg, 424/2, 2nd floor, Lazimpat, Kathmandu, P.O. Box 23874 T: +977 1 4001083 Email: minepal@micronutrient.org
	Pakistan	Dr. Naseer Muhammad Nizamani	Director, Pakistan	House 02, Street 54, Sector F-8/4, Islamabad, Pakistan 44000

				T: +92 51 285 5886-7 Email:nnizamani@micronutri ent.org
SUN	Bangladesh	Ms. Roxana Quader	Additional Secretary Ministry of Health and Family Welfare	Email: roxanaquader@gmail.com http://scalingupnutrition.org /
	Myanmar	Soe Lwin Nyein	Director General Department of Public Health, Ministry of Health	DR SOE LWIN NYEIN (CHAIR) DIRECTOR GENERAL (DEPARTMENT OF PUBLIC HEALTH) - MINISTRY OF HEALTH PHONE: +95 67 411389+95 67 411389 E-MAIL: drslnyein@gmail.com http://scalingupnutrition.org L
	Nepal	Madhu Kumar Marasini	Joint Secretary, National Planning Commission Secretariat	Email: mmarasini@mof.gov.np http://scalingupnutrition.org  L
	Pakistan	Muhammad Aslam Shaheen	Chief of Nutrition, Planning and Development Division, Planning Commission	Email: aslamshaheen 60@hotmail. com http://scalingupnutrition.org  /
TN	UK	Stuart Gillespie	CEO, Transform Nutrition	Transform Nutrition Research Programme Consortium, Institute of Development Studies Library Road, Brighton BN1 9RE Email: <a href="mailto:transform@ids.ac.uk">transform@ids.ac.uk</a> Email: <a href="mailto:s.gillespie@cgiar.org">s.gillespie@cgiar.org</a>
UNICEF	Afghanistan	-	-	UNICEF, P.O. Box 54, Kabul, Afghanistan 93 7 9050.7000 Email: kabul@unicef.org
	Bangladesh	-	-	UNICEF, P.O. Box 58, Dhaka - 1000 People's Republic of Bangladesh 880 2 5566-8088 -PABX Ext. 7001 ebeigbeder@unicef.org
	India	-	-	United Nations Children's Fund, 73 Lodi Estate New Delhi 110 003, India

				91 11 2469.0401
				Email: newdelhi@unicef.org
	Myanmar	Mr. Bertrand Bainvel	UNICEF	UNICEF MYANMAR
			Representative	P.O. Box 1435, Yangon
			in Myanmar	11201, Myanmar
				+95 1 230 5959 +95 1 230
				5959 (Representative's direct
				line) 95 1 230.5960
				Email: yangon@unicef.org
	Nepal	-		United Nations Children's
	Nepai			Fund, Nepal Country Office,
				P.O.Box 1187, UN House,
				Pulchowk, Kathmandu, Nepal
				Tel: 977-1-5523200, Fax:
				977-1-5527280
				Email:
				kathmandu@unicef.org
	Pakistan	Angela Kearney	UNICEF	UNICEF, P.O. Box 1063,
			Representative	Islamabad, Pakistan
				92 51 209.7700-7798
				92 51 209.7800-7895
	A.C. 1			Email: islamabad@unicef.org
WFP	Afghanistan	-	-	WFP Country Office,
				Afghanistan, Darya Village Hawashenasi Street, Besides
				Kabul Airport, Kabul,
				Afghanistan, PO BOX 1093
				Phone: +93 (0) 700 28 28 24
				& +93 (0) 797 66 20 05
				Email: WFP.Kabul@wfp.org
	Bangladesh	-	-	Dhaka, IDB Bhaban 14th,
				16th and 17th Floor E/8-A,
				Rokeya Sharani Agargaon,
				Sher-e-Bangla Nagar, Dhaka-
				1207
				Phone: +880 2 91830-22 /-23
				/-24 /-25
	India			Email: WFP.Dhaka@wfp.org
	India	-	-	New Delhi, World Food
				Programme, 2 Poorvi Marg, Vasant Vihar, New Delhi
				110057
				Phone: +91 11 26150000
				Email:
				WFP.NewDelhi@wfp.org
	Myanmar	-	-	Yangon Country Office, No. 5
				Kanbawza Street, Shwe
				Taung Kyar (2) Ward, Bahan
				Township, Yangon, Myanmar
				Phone: +95 1 230 5971~6 (6
				lines)
				Email: WFP.Yangon@wfp.org
	Nepal	Ertharin Cousin	Executive	Kathmandu, P.O. Box No
			Director	107, Chakupat, Patan Dhoka,

				Lalitpur, Kathmandu, Nepal Phone: +977 1 5260607 Email: WFP.Kathmandu@wfp.org
	Pakistan	-	-	Islamabad, Plot no. 1, Diplomatic Enclave No 1, Sector G-5, Islamabad. Phone: Tel: +92-51-8312000 Email: WFP.Islamabad@wfp.org
WHO	Afghanistan	Peeperkorn, Dr Richard	WHO representative	UNOCA Compound, Jalalabad Road Pul-e-Charkhi Kabul, Afghanistan Telephone: +93700045276 Email: emacoafgwr@who.int
	Bangladesh	Paranietharan, Dr Navaratnasamy	-	Country Office for Bangladesh, United House (GF to 3rd Floor), 10 Gulshan Avenue, Gulshan-1, Dhaka- 1212, Bangladesh, PO Box: 250 Telephone: (+8802) 8831415 or (+880) 09604027200 Hunting Email: sebanregistry@who.int
	India	Henk Bekedam	Country representative	Office of the WHO Representative to India, 537, A Wing, Nirman Bhawan, Maulana Azad Road, New Delhi 110 011, India Email: wrindia@searo.who.int
	Myanmar	Luna, Dr Jorge Mario	-	PO Box 14 11061 - Yangon, Myanmar Telephone: +95 1 650386 Email: whommr@searo.who.int
	Nepal	Vandelaer, Dr Jos	-	POB 108 Kathmandu, Nepal Telephone: +977 15523200 Email: senepwr@who.int
	Pakistan	Thieren, Dr Michel	-	PO Box 1013 Islamabad, Pakistan Telephone: +92 51 843 2451 Email: emacopakwr@who.int
Ministry of Health	Afghanistan	Dr. Ferozuddin Feroz,	Public Health Minister, Government of the Islamic Republic of Afghanistan	Ministry of Public Health, Kabul, Afghanistan Email: info.gcmu@moph.gov.af Email: http://moph.gov.af/en/page /ministers-biography
	Bangladesh	Mr. Mohd. Nasim Mr. Zahid Malek	Hon Minister of Health & FW	9574488, 9574422, Email:

	Mr. Syed Manjurul Islam	Honourable Minister of State, Health & FW Secretary, Health & FW	minister@mohfw.gov.bd 9545515, 9540461, Email: stminister@mohfw.gov.bd 9574490, 9540469 Email: healthsecretary@gmail.com Email: secretary@mohfw.gov.bd
India	Shri Jagat Prakash Nadda	Union Minister Health & Family Welfare	Room No. 348; 'A' Wing, Nirman Bhavan, New Delhi- 110011 011-23063024, 011- 23063513, 011-23061661 Email: hfwminister@gov.in
Myanmar	Prof. Dr Thet Khaing Win	Secretary (Ministry of Health)	Prof. Dr Thet Khaing Win (Member) Permanent Secretary (Ministry of Health) Phone: +95 67 411357 E-mail: thetkhaing.drthetkhaing.win 8@gmail.com Dr Soe Lwin Nyein (Member), Director General (Department of Public Health) - Ministry of Health Phone: +95 9 067 411388+95 67 411389 E-mail: drslnyein@gmail.comm
Nepal	Mr. Ram Janam Chaudhari Shanta Bahadur Shrestha	Hon'ble Minister Secretary	Ministers Secretariat Phone no. 426-2534, 426- 2543 ext-242 Email: ministerhp@mohp.gov.np Email: secretaryhp@mohp.gov.np
Pakistan	Ms Sherry Rehman	Federal Minister of Health	Health Division. Block "C". Pak. Secretariat, Islamabad. Int.+9251 9213933 Email: http://www.health.gov.pk