

POLICY BRIEF ON DELIVERING PROVEN NUTRITION INTERVENTIONS IN RAJASTHAN

ANNEXURES

Table 1: Resource Requirement Estimation for Nutrition Interventions for Rajasthan for year 2017-18 (Rs. Crore)

| Description | Sources | Assumption | Target Population | Unit Cost (US\$) [1\$ = INR 62] | Unit Cost (in INR) | No. of target beneficiaries as of 2017 | Required Resources (in INR) |
|---|------------------------------|---|--|--|--------------------|--|-----------------------------|
| Promotion of optimal nutrition during pregnancy though an average of 3.5 individual/group contacts during pregnancy | Khan, Saha, and Rawat 2014) | Assumes an average of 4.1 face to face visits per pregnant woman at \$0.43 per visit. | Pregnant women | \$1.76 per pregnant woman per year | 109.12 | 1,835,914 | 200,334,892 |
| Promotion of optimal breastfeeding practices though an average of 11.7 individual/group contacts between 0–6 months of age | (Khan, Saha, and Rawat 2014) | Assumes an average of 15.2 face to face visits between 0–6 months at \$0.11 per visit. | Caregivers of children 0–6 months of age / Lactating Women | \$1.67 per child 0–6 months of age per year | 103.54 | 747,991 | 77,446,954 |
| Promotion of optimal IYCF and hand washing practices through an average of 11.6 individual/group contacts between 6–12 months of age, and 13.5 contacts between | (Khan, Saha, and Rawat 2014) | Assumes an average of 13.3 face to face visits per child between 6–12 months of age at \$0.56 per visit, and an average of 12.2 face to face visits per | Caregivers of children 6–24 months of age / = no. of children 6m to 2 yr | \$7.47 per child 6–12 months of age per year \$2.80 per child 12–24 | 463.14 | 747,991 | 346,424,400 |

| Description | Sources | Assumption | Target Population | Unit Cost (US\$) [1\$ = INR 62] | Unit Cost (in INR) | No. of target beneficiaries as of 2017 | Required Resources (in INR) |
|---|--|---|--|---------------------------------|--------------------|--|-----------------------------|
| 12–24 months of age | | child between 12–24 months of age at \$0.23 per visit. | | months of age per year | 173.6 | 1,509,917 | 262,121,622 |
| Daily food supplements between 6–36 months of age | (Ministry of Women and Child Development 2012) | Assumes provision of a daily ration at Rs.6 (\$0.097) per day. | Children 6–36 months of age | | 2400 | 9,181,298 | 2204,00,00,000 |
| Daily food supplements for the second and third trimesters (i.e. approx. 6 months) of pregnancy and the first 6 months of lactation | (Ministry of Women and Child Development 2012) | Assumes provision of a daily ration for 6 months during pregnancy and 6 months after birth at Rs.7 (\$0.11) per day | Pregnant and lactating women for six months after delivery | | 2850 | 2,583,904 | 7,364,127,175 |
| | | | | | | | |
| Provision of an additional daily food supplement for 3 months for children who are severely malnourished | (Ministry of Women and Child Development 2012) | Assumes provision of a daily ration for 3 months at Rs.9 (US\$0.145) per day. | Children 6-59 months of age with WAZ < -3 | | 3600 | 890,629 | 3,206,264,861 |
| | | | | | | | |

| Description | Sources | Assumption | Target Population | Unit Cost (US\$) [1\$ = INR 62] | Unit Cost (in INR) | No. of target beneficiaries as of 2017 | Required Resources (in INR) |
|---|---------------------------------|--|--|---|--------------------|--|-----------------------------|
| Provision IFA supplements for women | (Micronutrient Initiative 2011) | Provision of daily IFA supplements for women during the second and third trimesters of pregnancy and for 6 months after delivery | Pregnant and lactating women for six months after delivery | \$0.72 per pregnant woman per year; \$0.51 per mother of a child 0–6 months of age per year | 44.64 | 1,835,914 | 81,955,183 |
| | | | | | 31.62 | 747,991 | 23,651,465 |
| Provision of IFA supplements through the school system | (UNICEF 2011) | Assumes weekly provision of IFA tablets and semi-annual deworming prophylaxis | Adolescents 11-18 years of age | \$0.40 per adolescent 11–18 years of age per year | 24.8 | 11,923,860 | 295,711,724 |
| | | | | | | | |
| Provision of daily iron supplements for children 6–59 months of age | (Micronutrient Initiative 2011) | This is the GOI's current expenditure on iron supplementation per beneficiary | children 6-59 months of age | \$0.37 per child 6–36 months of age per year | 22.94 | 7,300,239 | 167,467,477 |
| Supplements for children | (Micronutrient Initiative 2011) | Assumes 2 rounds of vitamin A supplementation per child per year | children 6-59 months of age | \$0.07 per child 6–59 months of | 4.34 | 7,300,239 | 31,683,036 |

| Description | Sources | Assumption | Target Population | Unit Cost (US\$) [1\$ = INR 62] | Unit Cost (in INR) | No. of target beneficiaries as of 2017 | Required Resources (in INR) |
|---|--|--|---|---|--------------------|--|-----------------------------|
| | | | | age per year | | | |
| Daily ORS and zinc for 14 days during/following an episode of diarrhoea | (Micronutrient Initiative 2011) | Assumes each child 2–59 of age has an average of 3 episodes of diarrhoea per year, 2 ORS sachets are required to treat each episode of diarrhoea, zinc is provided for 14 days per episode | children 2-59 months of age with diarrhoea | \$0.64 per child 2–59 months of age per year | 39.68 | 8,048,229 | 319,353,744 |
| Deworming tablets for children | (Ministry of Health and Family Welfare 2012) | Assumes two rounds deworming per child per year | Children 12-59 months of age | \$0.23 per child 12–59 months of age per year | 14.26 | 6,552,248 | 93,435,058 |
| Facility based treatment for children with severe acute malnutrition | (Ministry of Health and Family Welfare 2011) | Assumes that the incident of SAM per year is twice the prevalence of severe wasting; 15 percent of these children will receive inpatient treatment; average duration of | Children 6–59 months of age with a WHZ < -3 | \$107.38 per case treated per year | 6657.56 | 186,156 | 1,239,345,327 |

| Description | Sources | Assumption | Target Population | Unit Cost (US\$) [1\$ = INR 62] | Unit Cost (in INR) | No. of target beneficiaries as of 2017 | Required Resources (in INR) |
|--|------------------------------------|--|--|---------------------------------|--------------------|--|-----------------------------|
| | | treatment is 12.5 days | | | | | |
| Monthly cash stipend provided to breastfeeding mothers | (Ministry of Law and Justice 2013) | Includes the cost of the benefit and incentives. The benefit is provided for 6 months after delivery. Excludes women working in the government sector per year | Breastfeeding mothers after the first 6 months of delivery | | 6399.64 | 1,822,716 | 11,664,728,397 |

Table 2: Budget Outlays for Nutrition Interventions in Rajasthan

| S. No. | Interventions | Description | scheme/corresponding government interventions | Available Financing BE 2016-17 (Crore) | Available Financing AE 2016-17 (Crore) | Available Financing BE 2017-18 (Crore) | Available Financing AE 2017-18 (Crore) | Available Financing BE 2018-19 (Crore) |
|----------------------------|-------------------------------|--|---|--|---|--|--|--|
| COUNSELLING ACTIONS | | | | | | | | |
| 1 | counselling during pregnancy | Promotion of optimal nutrition during pregnancy through an average of 3.5 individual / group contacts during pregnancy | Honorarium of associates, JSSK(DIET COMPONENT), Asha incentive (home based newborn care programme), Asha Incentive (Immunisation) | 92.88+31.55+24+16.97 = 165.4 (budget head Change A.1.6.3 to A.1.6.4) | 97.27+8.70+4.75+2.58= 113.3 (budget head Change A.1.6.3 to A.1.6.4) | 116.87+31.55+26.40+17.34= 192.22 | 109.66(RE)+7.33+6.77+2.76 = 126.52 | 175.42+31.55+26.40+17.34 = 250.71 |
| 2 | Counselling for breastfeeding | Promotion of optimal breastfeeding practices through an | | | | | | |

| S. No. | Interventions | Description | scheme/corresponding government interventions | Available Financing BE 2016-17 (Crore) | Available Financing AE 2016-17 (Crore) | Available Financing BE 2017-18 (Crore) | Available Financing AE 2017-18 (Crore) | Available Financing BE 2018-19 (Crore) |
|--------|---|--|---|--|--|--|--|--|
| | | average of 11.7 individual / group contacts between 0-6 months of age | | | | | | |
| 3 | Counselling for complementary feeding and handwashing | Promotion of optimal IYCF and handwashing practices through an average of 11.6 individual / group contacts between 0-6 months of age, and 13.5 | IYCF- NHM | 0 | 0 | 0.2 | 0.03 | 0.2 |

| S. No. | Interventions | Description | scheme/corresponding government interventions | Available Financing BE 2016-17 (Crore) | Available Financing AE 2016-17 (Crore) | Available Financing BE 2017-18 (Crore) | Available Financing AE 2017-18 (Crore) | Available Financing BE 2018-19 (Crore) |
|------------------------|--------------------------------|--|---|--|--|--|--|--|
| | | contacts between 12-24 months of age | | | | | | |
| SUPPLEMENTATION | | | | | | | | |
| 4 | Complementary food supplements | Daily food supplements between 6-36 months of age | ICDS Supplements nutrition program (SNP) - | 629.61 | 593.43 | 600 | 600 (RE) | 650 |
| 5 | Supplementary food ration | Daily food supplements for the second and third trimesters (i.e. approx. 6 month) of pregnancy and the first 6 months of | ICDS Supplements nutrition program (SNP) - | | | | | |

| S. No. | Interventions | Description | scheme/corresponding government interventions | Available Financing BE 2016-17 (Crore) | Available Financing AE 2016-17 (Crore) | Available Financing BE 2017-18 (Crore) | Available Financing AE 2017-18 (Crore) | Available Financing BE 2018-19 (Crore) |
|-------------------------------------|--|---|---|--|--|--|--|--|
| | | location | | | | | | |
| 6 | Additional food rations for severely malnourished children | Provision of an additional daily food supplements for 3 months for children who are severely malnourished | ICDS Supplements nutrition program (SNP) | - | | | | |
| MICRONUTRIENTS AND DEWORMING | | | | | | | | |
| 7 | IFA supplements for pregnant and breastfeeding | Provision of IFA supplements for pregnant and lactating women | Jssk (IFA component) | | | | | 1.94 |

| S. No. | Interventions | Description | scheme/corresponding government interventions | Available Financing BE 2016-17 (Crore) | Available Financing AE 2016-17 (Crore) | Available Financing BE 2017-18 (Crore) | Available Financing AE 2017-18 (Crore) | Available Financing BE 2018-19 (Crore) |
|--------|---|--|--|--|--|--|--|--|
| | women | | | | | | | |
| 8 | IFA supplements and deworming for adolescents | Provision of IFA supplements through the school system | NHM- WIFS (IFA and Albendazole component) 10 to 19 year girl, | 4.7 | 1.27 | 3.31 | 40 | 3.31 |
| 9 | Iron supplements for children And Deworming | Provision of daily iron supplements for children 6-59 months of age and Deworming tablets for children | NHM- NATIONAL IRON PLUS INITIATIVE (NIPI) 6 Month to 5 year Twice a week and National deworming program (6 Month to 5 year) | 13.4 | 1.28 | 1.35 | 1.35 | 1.35 |

| S. No. | Interventions | Description | scheme/corresponding government interventions | Available Financing BE 2016-17 (Crore) | Available Financing AE 2016-17 (Crore) | Available Financing BE 2017-18 (Crore) | Available Financing AE 2017-18 (Crore) | Available Financing BE 2018-19 (Crore) |
|-----------------------------|---|--|---|---|--|--|--|--|
| # | Vitamin A | Supplements for children | vitamin a program | 1.6 (budget head Change B.16.2.2.2 to B.16.2.2.3) DETAILS IN ROP | | 1.6 | 0 | 1.6 |
| # | ORS and therapeutic zinc supplements for treatment of diarrhoea | Daily ORS and zinc for 14 days during/ following an episode of diarrhoea | | 11.96 (budget head Change B.16.2.2.3+B.16.2.2.4 to B.16.2.2.1+B.16.2.2.2) DETAILS IN ROP | | 6.13 | 0 | 6.13 |
| # | Deworming | Deworming tablets for children | National deworming program (1 to 5 year) | | | | | 0.67 |
| HEALTH INTERVENTIONS | | | | | | | | |
| # | Treatment of severe | Facility-based treatment | Care of sick children and severe | 2.12 | 0.77 | 2.81 | 0.6 | 2.81 |

| S. No. | Interventions | Description | scheme/corresponding government interventions | Available Financing BE 2016-17 (Crore) | Available Financing AE 2016-17 (Crore) | Available Financing BE 2017-18 (Crore) | Available Financing AE 2017-18 (Crore) | Available Financing BE 2018-19 (Crore) |
|------------------------------------|---|--|---|--|--|--|--|--|
| | acute malnutrition | for children with severe acute malnutrition | malnutrition (e.g. rapid | | | | | |
| MISCELLANEOUS INTERVENTIONS | | | | | | | | |
| # | Maternity benefit for breastfeeding mothers | Monthly cash stipend provided to breastfeeding mothers | PMMVY | 30 | 24.2 | 25 | 9 (RE)+105.69* (RE)= 114.69 | 44.96+211.57*=256.53 |

Note: * This part of the budget for PMMVY goes to beneficiaries of PMMVY and is not visible in budget books.

Table 3: Resource Gap Analysis for FY 2017-18

| Description | Required Resources for FY 2017-18 (in Rs. Crore) | Available Financing BE 2017-18 (Rs. Crore) | Available Financing AE 2017-18 (Rs. Crore) | Resource Gap against 2017-18 BE (in %) | Resource Gap Against 2017-18 AE (in %) |
|---|---|---|---|---|---|
| Promotion of optimal IYCF and hand washing practices through an average of 11.6 individual/group contacts between 6–12 months of age, and 13.5 contacts between 12–24 months of age | 61 | 0.2 | 0.03 | 99.7 | 100.0 |
| Daily food supplements between 6–36 months of age | 3,261 | 600 | 600 | 81.6 | 81.6 |
| Daily food supplements for the second and third trimesters (i.e. approx. 6 months) of pregnancy and the first 6 months of lactation | | | | | |
| Provision of an additional daily food supplement for 3 months for children who are severely malnourished | | | | | |
| Provision of IFA supplements through the school system | 30 | 3.31 | 40 | 88.8 | -35.3 |
| Deworming tablets for children | 26 | 1.35 | 1.35 | 94.8 | 94.8 |
| Provision of daily iron supplements for children 6–59 months of age | | | | | |

| Description | Required Resources for FY 2017-18 (in | Available Financing BE | Available Financing AE | Resource Gap against 2017- | Resource Gap Against 2017-18 |
|---|---------------------------------------|------------------------|------------------------|----------------------------|------------------------------|
| Vitamin A Supplements for children | 3 | 1.6 | 0 | 49.5 | 100.0 |
| Daily ORS and zinc for 14 days during/following an episode of diarrhoea | 32 | 6.13 | 0 | 80.8 | 100.0 |
| Facility based treatment for children with severe acute malnutrition | 124 | 2.81 | 0.6 | 97.7 | 99.5 |
| Monthly cash stipend provided to breastfeeding mothers | 1,166 | 25 | 114.7 | 98 | 90 |

Note: For few interventions, the resource requirements were clubbed to make them comparable with the budget allocations. These include, (i) Daily food supplements between 6–36 months of age; Daily food supplements for the second and third trimesters (i.e. approx. 6 months) of pregnancy and the first 6 months of lactation; Provision of an additional daily food supplement for 3 months for children who are severely malnourished; (ii) Deworming tablets for children and Provision of daily iron supplements for children 6–59 months of age

