



Independent Monitoring of
National Deworming Day in Bihar
August 2018 Round
REPORT
October 2018

### Process Monitoring and Coverage Validation

During every round of National Deworming Day (NDD), Evidence Action conducts independent monitoring, which includes process monitoring on NDD and mop-up day and a coverage validation exercise post-NDD. This is conducted through an independent survey agency, to assess the planning, implementation and quality of the NDD program with an objective of identifying gaps and suggesting recommendations for improvements in future NDD rounds. Process monitoring is conducted to understand state government's preparedness for NDD and adherence to the program's prescribed processes; and coverage validation is an ex-post check of the accuracy of the reporting data and coverage estimates to verify government-reported treatment figures.

Bihar observed the August 2018 round of NDD on August 2; followed by mop-up day on August 13. Fieldwork for process monitoring was conducted on August 2 and 13, while coverage validation in the state was conducted August 20-25. This extract is a summary of the broad findings from the surveys conducted in the state of Bihar.

### Survey Methodology

Using a two-stage probability sampling procedure, across 17 districts, Evidence Action selected 250 schools (179 government schools and 71 private schools) and 250 *anganwadis* for process monitoring visits during NDD and mop-up days; 625 schools (465 government school and 160 private schools) and 625 *anganwadis* for coverage. Evidence Action had designed and finalized survey tools with approvals from Bihar's state government. One combined tool for process monitoring was used at schools and *anganwadis* on NDD and mop-up day, and one each for schools and *anganwadis* for coverage validation.

#### Implementation

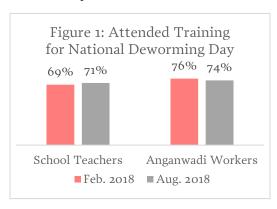
Prior to the survey, Evidence Action conducted a comprehensive training of master trainers who further conducted two separate training days for process monitoring and coverage validation of 125 surveyors and 25 supervisors at Patna. The training included an orientation on NDD, the importance of independent monitoring, and details of the monitoring formats including CAPI practices, survey protocols and practical sessions. Each surveyor was allotted one school and one *anganwadi* for process monitoring on NDD and mop-up day, and subsequently five schools and five *anganwadi*s for coverage validation. Surveyors were provided with a tablet computer with the latest CAPI version downloaded, battery charger, printed copy of monitoring formats as backup, and albendazole tablets for demonstration during data collection. The details of sampled schools were shared with surveyors one day before the commencement of fieldwork to ensure that surveyors did not contact schools and *anganwadis* in advance, as this could cause bias in the results.

Appropriate quality assurance measures were taken to ensure that the data collected was accurate, consistent and authenticated. For example, teachers and *anganwadi* workers (AWWs) were asked to sign a participation form with an official stamp to authenticate surveyor visits

to schools or *anganwadis*. Further, consent based thumb impression of all survey respondents in electronic mode including headmasters, teachers, *anganwadi* workers, ASHAs and children were collected for verification purpose. The GPS location along with time stamp and photographs of all schools and anganwadis visited during data collection was also collected through CAPI to authenticate the location and time of the interview. Evidence Action reviewed all data sets and shared feedback with the agency for any inconsistencies observed and ensured timely corrective actions. All analysis was performed using STATA and Microsoft Excel.

### Key Findings

### Training

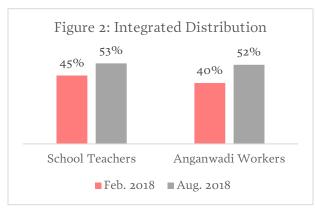


Prior to each NDD round, teachers and *anganwadi* workers are trained on NDD related processes and protocols to facilitate effective implementation of the program. NDD guideline mandates schools and *anganwadis* to attend training for every NDD round, irrespective of whether they attended training in earlier rounds. 71% of teachers and 74% AWWs attended training for the August 2018 NDD round, which remains almost similar to the February 2018 round in both schools and *anganwadis* (Figure 1). The

attendance of private schools in trainings improved significantly from 30% in February 2018 to 44% in the August 2018 round.

Among those who did not attend training, 61% of teachers and 52% of AWWs reported lack of information about NDD training as the main reason for not attending. Sixty-two percent of teachers provided training to all other teachers at their school, which remains stagnant from the February 2018 round (60%). Seventy-eight percent of teachers and 60% of AWWs reported to receive SMS about NDD. Among private school teachers, it increased by 13 percentage points from 39% from the previous round to 52% in August 2018.

Integrated Distribution of NDD Kit Including Tablets



Integrated distribution of the NDD kit has improved by eight percentage points in schools and 12 percentage points in anganwadis in the August 2018 round compared to the previous round (Figure 2). Eighty-nine percent of schools and 96% of anganwadis received albendazole tablets and 92% of schools and 95% of anganwadis reported to receive sufficient quantities of the tablet (Annex-Table PM3). Further, 72% of

schools and 78% of anganwadis received posters/banners; and 76% and 81% received

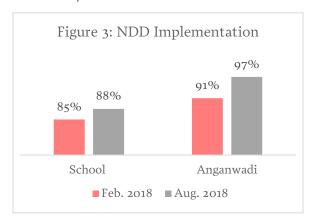
handout/reporting form respectively (Annex-Table PM4). Despite a low level of integrated distribution, tablets and IEC materials reached the majority of schools and *anganwadis*, indicating the state government's commitment to the program.

Among the sampled private schools, 62% received albendazole and among them 85% reported to have received it in sufficient quantity. Forty-one percent of private schools received posters/banners and 36% reported having received handouts/reporting forms (Annex-Table PM7). The corresponding figures for the February 2018 round were 23% received poster/banner and 38% received handouts/reporting forms in private schools.

#### Source of Information about the Recent Round of NDD

SMS was the major source of information in schools (52%) and training for *anganwadi* (38%) in the August round. Thirty-three percent of schools also obtained information about NDD through training. Eighteen percent of schools and 20% of *anganwadis* reported to receive information through television. Social media was not an effective source of information; 15% of school teachers and five percent of AWWs received information from WhatsApp messages with government circulated reinforcement messages. Information received through the radio remained the least effective source of information for both schools and *anganwadis* (six percent and four percent respectively) (Annex-Table PM1).

NDD Implementation



As evident from Figure-3, while the proportion of schools and *anganwadis* conducting deworming remained high during both the rounds; it remains stagnant in schools and increased in *anganwadis* in the current round. Out of all the schools and *anganwadis* visited during process monitoring, surveyors were able to observe deworming activities in 98% of schools and 97% of *anganwadis* (Annex-Table PM5). Tablet administration to unregistered (77%) and out-of-

school children (72%) also improved nominally in the current round from February 2018 round. Further, 50% of AWWs reported that ASHAs were present at the *anganwadi* centre on NDD or mop-up day.

## Adverse Events- Knowledge and Management

Interviews with headmasters/teachers and *anganwadi* workers reveals low levels of awareness (46% in schools and 44% *anganwadis*) regarding potential adverse events due to deworming. The majority of school teachers (83%) and AWWs (85%) reported vomiting as a side effect of albendzole administration followed by mild abdominal pain (77% and 71% respectively) and nausea (49% and 40%) respectively. Knowledge about management of adverse events was low in both schools and *anganwadis*. For example, 23% of teachers and 17% of AWWs were aware

to observe a child for at least two hours in school/anganwadi in case of mild adverse events. Representatives from 41% of schools and 37% of anganwadis had further recalled that during adverse events a child should be given ORS/Water. Representatives from 65% schools and 61% anganwadis could also recall that they will need to call a PHC doctor if symptoms persisted (Annex- Table PM6). However, only 42% of private school teachers reported the need to call to a Primary Health Centre (PHC) doctor if a child continues to report the symptoms of an adverse event. Findings necesitate emphasis on adverse event management protocols during training of teachers and AWWs.

### Recording Protocol

Forty-five percent of schools and 32% of *anganwadis* followed the correct (single and double ticks) recording protocol. Ten percent of schools and 18% of *anganwadis* carried out partial¹ recording. Almost half of the schools (45%) and *anganwadi* (50%) did not follow any protocol to record the information of dewormed children (Annex — Table CV3). Compared to previous round, there is a decline in adherence to correct recording protocols, where 53% of schools and 38% of *anganwadis* followed the correct recording protocol in the February 2018 round. Further, as per NDD guidelines, all schools and *anganwadis* are supposed to retain a copy of reporting forms. Although 82% of headmasters and 88% of AWWs were aware of the need to retain the reporting form, (Annex — Table PM2), during coverage validation it was observed that only 61% of schools and 50% of *anganwadis* had retained the copy of reporting forms (Annex — Table CV1). There has been a slight increase in the availability of the reporting forms in comparison to the February 2018 round, when the former was available in 53% of schools and 42% of *anganwadis*.

Accredited Social Health Activists (ASHAs) are required to prepare a list of out-of-school children and children unregistered in *anganwadis* and submit it to AWWs. However, only 39% of *anganwadis* reported to have the list of unregistered (1-5 years) children and 33% reported having the list of out-of-school children (6-19 years) (Annex —Table CV1). Nevertheless, 50% of all the ASHAs interviwed during coverage validation (who were available at the *anganwadis* at the time of surveyors visit), reported to prepare the list of unregistered and out-of-school children and 75% of them had shared it with AWWs. Only 16% of ASHA workers reported receiving incentives for the last round of NDD i.e. February 2018 (Annex —Table CV2).

### Coverage Validation

Coverage validation provides an opportunity to assess the accuracy of reported data and verify government-reported treatment figures. Verification factors<sup>2</sup> are common indicators to measure the accuracy of reported treatment values for neglected tropical disease control

<sup>&</sup>lt;sup>1</sup> Partial recording protocol includes schools/anganwadis where all the classes/registers did not follow correct protocol, but put different symbols and prepared separate list to record the information of dewormed children. <sup>1</sup>A verification factor of 1 means the schools reported the exact same figures that they recorded on deworming day. A verification factor less than 1 indicates over-reporting, while a verification factor greater than 1 indicates underreporting.

programs<sup>3</sup>. It also gives us an idea about record keeping and data management at the service delivery point. The verification factor is estimated on the basis of the availability of a copy of reporting forms at schools and *anganwadis*. The state-level verification factor for school enrolled children in the August 2018 round is 0.54, indicating that on an average, for every 100 dewormed children reported by the school, 54 were verified either through single/double tick or through other available documents at the school. Similarly, the overall state-level verification factor for children dewormed at *anganwadis* is .59, indicating that on an average; for every 100 dewormed children reported by the *anganwadi*, 59 were verified through available documents (Annex – Table CV3).

The category-wise verification factors for registered (1-5 years), unregistered (1-5 years) and out-of-school (6-19 years) children were 0.46, .70, and .72 respectively for *anganwadis* (Annex CV3). The data suggests reporting and aggregation errors of coverage figures in *anganwadis* and thus highlights a need for proper record keeping. Despite challenges in reporting and documentation of NDD coverage data, based on children's interviews, all of the children present at schools on NDD or mop-up day received (97%) and consumed (100%) the albendazole tablet under supervised administration (96%) on either NDD or mop-up day.

Against the state government reported 89% coverage in schools and 90% coverage for 1-5 years registered children in anganwadis, attempts were made to understand the maximum number of children that could have been dewormed at schools and anganwadis through coverage validation data. The NDD treatment coverage in schools was estimated considering the maximum attendance of children on NDD dates. Coverage validation data showed that 88% of schools conducted deworming on either NDD or mop-up day (Annex-Table CV1), a maximum of 80% of children were in attendance (Annex-Table CV3), 97% of children received deworming tablet, and 96% of children reported to consume the tablet under supervision (Annex-Table CV4). Considering these factors, 66%4 (0.88\*0.80\*0.97\*0.96) of enrolled children could have been dewormed at schools. Since interviews of children are not conducted in *anganwadis*, the verification factor of 1-5 years registered children from coverage validation data is applied to government reported coverage data for the same category. It was estimated that around 41% (0.46\*0.90) of registered children in anganwadis could have been dewormed. The calculation of verification factors is based on only those schools and anganwadis where a copy of the reporting form was available for verification. Therefore, adjusted coverage in schools and *anganwadis* based on verification factors needs to be interpreted with caution.

## Mid-Day Meal Program

Out of total sampled schools (both private and government), 70% of the schools are covered under the Mid-Day Meal program (MDM) and almost 92% of them send daily updates for

<sup>&</sup>lt;sup>2</sup>WHO (2013), Data Quality Assessment tool for Neglected Tropical Diseases: Guidelines for Implementation December 2013.

<sup>&</sup>lt;sup>4</sup>This was estimated on the basis of NDD implementation status (88%), maximum attendance on NDD and mop-up day (80%), children received albendazole (97%) and supervised tablet administration (96%). In absence of children interview in Anganwadis, the government reported coverage was adjusted by implying state level verification factor.

MDM via Integrated Voice Response System (IVRS)/SMS platforms in the state. Also, 83% of the headmasters among the total sampled schools are aware of sharing NDD related information by IVRS/SMS on NDD and mop-up days.

#### Recommendations

The following are the key recommendations for program improvements that emerged from the process monitoring and coverage validation exercise in the state:

- Training is crucial for the smooth implementation of the NDD program. It raises awareness among teacher and *anganwadi* workers on NDD protocols and also has an effect on the distribution of tablets, IEC and training material and their subsequent availability at schools and *anganwadis*. Efforts are required to ensure maximum training participation from the schools and *anganwadis* in the next round by effective planning and coordination among the stakeholder departments and avoiding delays/rescheduling of trainings. Pre-planning of trainings and timely communication of the date and venue to schools and *anganwadis* are vital. Teachers and headmasters who attend training must be mandated to impart adequate training to other teachers in their schools.
- 2. While in this round integrated distribution has increased in both schools and anganwadis from the previous round, this needs to be sustained and efforts to improve it further in future rounds. As integrated distribution of the NDD kit is cost-effective, it eases logistical concerns and ensures quality services; efforts should be made to strengthen distribution with timely tablets procurement and printing of IEC. Efforts are also required to strengthen the distribution cascade (NDD kits) and hand over NDD kits to teachers and AWWs at the time of training.
- 3. Adherence to correct recording protocol in schools and *anganwadis* has increased when compared to the last round, however, greater emphasis on recording protocols during block level trainings will help improve the quality of data management and documentation going forward. Practical sessions on recording protocols for teachers and AWWs can be organized during sector level trainings.
- 4. As ASHAs play an important role in NDD, efforts are required for their active involvement in the program. During the training, more emphasis should be given in sensitizing ASHAs regarding their role in mobilizing unregistered pre-school age children and out-of-school children and spreading awareness on deworming benefits. Reminder SMSs should be sent to them regarding their wider participation in NDD and information on their incentives. As findings show, a small proportion of ASHAs received incentives for the August 2018 round, and therefore, timely disbursement of their incentives can be a motivating factor for their engagement in the program.
- 5. Coverage validation findings depict a significant decrease in estimated coverage in both schools and *anganwadis*. This could be attributed to low attendance in schools on NDD and mop day and a decrease in the verification factor (for 1-5 registered children) in

*anganwadis*. Emphasis should be given to maintain high attendance on NDD days to achieve maximum NDD coverage in schools. Moreover, proper record management can further increase the verification, leading to improved coverage.

#### **ANNEXURE**

Table A: Sample Description including Number of Schools and *Anganwadis* Covered during Process Monitoring

| Sample Details   | Number |
|--|--------|
| Total number of NDD districts in the state                                       | 17     |
| Number of districts covered under process monitoring                             | 17     |
| Number of trained surveyors deployed   | 125    |
| Number of blocks <sup>5</sup> covered  | 125    |
| Total number of schools covered during process monitoring                        | 250    |
| Number of government schools covered <sup>6</sup>                                | 179    |
| Number of private schools covered  | 71     |
| Total number of <i>anganwadis</i> covered <sup>7</sup> during process monitoring | 250    |
| Total number of schools covered during coverage validation                       | 625    |
| Total number of government schools covered <sup>8</sup>                          | 465    |
| Total number of private schools covered  | 160    |
| Total number of <i>anganwadis</i> covered during coverage validation             | 625    |

Table PM1: Training and source of information about NDD among teachers/headmasters and anganwadi workers, August 2018

| Indicators                                 | School          |               |    | School Anganwadi |               |    |  |
|--|-----------------|---------------|----|------------------|---------------|----|--|
|  | Denominato<br>r | Numerato<br>r | %  | Denominato<br>r  | Numerato<br>r | %  |  |
| Attended training for current round of NDD | 250             | 177           | 71 | 250              | 185           | 74 |  |

<sup>&</sup>lt;sup>5</sup>These are sampled blocks selected from U-DISE data.

<sup>&</sup>lt;sup>6</sup>These are the actual schools covered during NDD and mop-up day visits. Numbers given in subsequent tables (numerator and denominator) are weighted

<sup>&</sup>lt;sup>7</sup>These are the actual *anganwadis* covered during NDD and mop-up day visits. Numbers given in subsequent tables (numerator and denominator) are unweighted.

<sup>&</sup>lt;sup>8</sup>These are the actual schools covered during Coverage Validation visits. Numbers given in subsequent tables (numerator and denominator) are weighted. The weights are used in order to generalize the findings at state level. <sup>9</sup>These are the actual *anganwadis* covered during Coverage Validation visits. Numbers given in subsequent tables (numerator and denominator) are weighted. The weights are used in order to generalize the findings at state level.

| Indicators                                   | School                 |                     |         | Anganwadi       |               |    |
|--|------------------------|---------------------|---------|-----------------|---------------|----|
|  | Denominato<br>r        | Numerato<br>r       | %       | Denominato<br>r | Numerato<br>r | %  |
| Ever attended training for NDD <sup>10</sup> | 250                    | 187                 | 75      | 250             | 191           | 76 |
| Never attended training for NDD              | 250                    | 63                  | 25      | 250             | 59            | 24 |
| Reasons for not attending curre              | ent NDD round          | training (Mult      | iple R  | lesponse)       | 1             |    |
| Location was too far away                    | 73                     | 1                   | 1       | 65              | 5             | 8  |
| Did not know the date/timings/venue          | 73                     | 45                  | 61      | 65              | 34            | 52 |
| Busy in other official/personal work         | 73                     | 4                   | 6       | 65              | 5             | 8  |
| Attended deworming training in the past      | 73                     | 11                  | 14      | 65              | 6             | 9  |
| Not necessary                                | 73                     | 6                   | 8       | 65              | 8             | 12 |
| No incentives/no financial support           | 73                     | 4                   | 5       | 65              | 1             | 2  |
| Trained teacher that provided                | l<br>training to other | teachers in tl      | heir so | chools          |               |    |
| All other teachers                           | 177                    | 110                 | 62      | Not Applicable  | 5             |    |
| Few teachers                                 | 177                    | 35                  | 20      | Not Applicable  | 5             |    |
| No (himself/herself only teacher)            | 177                    | 17                  | 10      | Not Applicable  |               |    |
| No, did not train other teachers             | 177                    | 15                  | 8       | Not Applicable  |               |    |
| Source of information about cu               | l<br>irrent NDD roun   | l<br>nd (Multiple R | espon   | se)             |               |    |
| Television                                   | 250                    | 44                  | 18      | 250             | 50            | 20 |
| Radio  | 250                    | 14                  | 6       | 250             | 11            | 4  |
| Newspaper                                    | 250                    | 60                  | 24      | 250             | 41            | 16 |
| Banner                                       | 250                    | 25                  | 10      | 250             | 31            | 12 |

<sup>-</sup>

 $<sup>^{10}</sup>$ Includes those school teachers and anganwadi workers who attended training either for NDD August 2018 or attended training in past.

| Indicators                                     | School                 |          |    | Anganwadi  |          |    |
|--|------------------------|----------|----|------------|----------|----|
|  | Denominato             | Numerato | %  | Denominato | Numerato | %  |
|  | r                      | r        |    | r          | r        |    |
| SMS  | 250                    | 130      | 52 | 250        | 91       | 36 |
| Others   |                        |          |    |            |          |    |
| school/teacher/ <i>anganwadi</i>               | 250                    | 35       | 14 | 250        | 58       | 23 |
| worker   |                        |          |    |            |          |    |
| WhatsApp message                               | 250                    | 37       | 15 | 250        | 13       | 5  |
| Training                                       | 250                    | 81       | 33 | 250        | 96       | 38 |
| Others <sup>11</sup>                           | 250                    | 30       | 12 | 250        | 26       | 10 |
| Received SMS for current<br>NDD round          | 250                    | 195      | 78 | 250        | 151      | 60 |
| Probable reasons for not recei                 | ving SMS <sup>12</sup> |          |    |            |          |    |
| Changed Mobile number                          | 45                     | 5        | 11 | 76         | 15       | 20 |
| Other family members use this number           | 45                     | 4        | 9  | 76         | 13       | 17 |
| Number not registered to receive such messages | 45                     | 11       | 25 | 76         | 16       | 21 |
| Others <sup>13</sup>                           | 45                     | 25       | 56 | 76         | 32       | 42 |

Table PM2: Awareness about NDD among teachers/headmasters and *anganwadi* workers, August 2018

| Indicators  | School          |               |    | Anganwadi       |               |    |
|---|-----------------|---------------|----|-----------------|---------------|----|
|   | Denominato<br>r | Numerato<br>r | %  | Denominato<br>r | Numerato<br>r | %  |
| Awareness about the ways a child can get worm infection           | 250             | 202           | 81 | 250             | 195           | 78 |
| Different ways a child can get worm infection (Multiple Response) |                 |               |    |                 |               |    |

 $<sup>^{\</sup>mathrm{n}}$ Others includes information received from ASHA/ANM, Block Coordinator, Hospital, ICDS Department, Information received by polio team, No information received, Someone else, Through BRC/CRC, Through daughter, Tablet not received

10

<sup>&</sup>lt;sup>12</sup>10 Schools and 23 *Anganwadis* reported that they don't know about receiving the SMS and reasons were not asked to them.

<sup>&</sup>lt;sup>13</sup>Others includes Don't Know, Have no information regarding NDD, Mobile phone is not working, No information about SMS, Network Issue

| Not using sanitary latrine   | 202              | 122            | 61    | 195              | 108 | 55 |
|--|------------------|----------------|-------|------------------|-----|----|
| Having unclean surroundings  | 202              | 145            | 72    | 195              | 123 | 63 |
| Consume vegetables and fruits without washing  | 202              | 95             | 47    | 195              | 93  | 48 |
| Having uncovered food and drinking dirty water   | 202              | 89             | 44    | 195              | 95  | 49 |
| Having long and dirty nails  | 202              | 93             | 46    | 195              | 91  | 47 |
| Moving in bare feet  | 202              | 82             | 41    | 195              | 83  | 43 |
| Having food without washing hands  | 202              | 105            | 52    | 195              | 99  | 51 |
| Not washing hands after using toilets  | 202              | 57             | 28    | 195              | 54  | 28 |
| Awareness about all the possible ways a child can get a worm infection <sup>14</sup>                 | 202              | 15             | 7     | 195              | 13  | 7  |
| Perceives that health education should be provided to children                                       | 250              | 239            | 96    | 250              | 237 | 95 |
| Awareness about correct dose   | and right way of | administration | on of | albendazole tabl | et  |    |
| 1-2 years of children (Crush<br>the half tablet between two<br>spoons and administer with<br>water)  | Not Applicable   |                |       | 250              | 201 | 80 |
| 2-3 years of children (Crush<br>one full tablet between two<br>spoons, and administer with<br>water) | Not Applicable   |                |       | 250              | 118 | 47 |
| 3-5 years of children (one full<br>tablet and child chewed the<br>tablet properly)                   | Not Applicable   |                |       | 250              | 198 | 79 |

<sup>-</sup>

<sup>&</sup>lt;sup>14</sup>Includes those who were aware that a child can get worm infection if she/he does not use sanitary latrine, have unclean surroundings, consume vegetable and fruits without washing, have uncovered food and drinking dirty water, have long and dirty nails, moves in bare fee, have food without washing hands and not washing hands after using toilets.

| 6-19 years of children (one full tablet and child chewed the tablet properly)     | 250               | 237              | 95     | 250   | 240 | 96  |
|---|-------------------|------------------|--------|-------|-----|-----|
| Awareness about non-adminis   | tration of albeno | lazole tablet to | o sick | child | l   |     |
| Will administer albendazole tablet to sick child                                  | 250               | 27               | 11     | 250   | 20  | 8   |
| Will not administer albendazole tablet to sick child                              | 250               | 223              | 89     | 250   | 230 | 92  |
| Awareness about consuming a   | lbendazole table  | t                |        | l     | I   |     |
| Chew the tablet   | 250               | 243              | 97     | 250   | 247 | 99  |
| Swallow the tablet directly   | 250               | 7                | 3      | 250   | 3   | 1   |
| Awareness about consuming albendazole in school/anganwadi                         | 250               | 235              | 94     | 250   | 249 | 100 |
| Awareness about the last date (August 18, 2018) for submitting the reporting form | 250               | 107              | 43     | 250   | 120 | 48  |
| Awareness about submission of reporting forms to ANM                              | 250               | 77               | 31     | 250   | 167 | 67  |
| Awareness to retain a copy of the reporting form                                  | 250               | 204              | 82     | 250   | 219 | 88  |

Table PM3: Deworming activity, tablet availability, and list of unregistered and out-of-school children, August 2018

| Indicators                    | School           | School                  |    |            | Anganwadi |    |  |
|-------------------------------|------------------|-------------------------|----|------------|-----------|----|--|
|                               | Denominato       | Denominato Numerato % I |    | Denominato | Numerato  | %  |  |
|                               | r                | r                       |    | r          | r         |    |  |
| Albendazole tablet adminis    | tered on the day | of visit                | ı  | I          | 1         | 1  |  |
| Yes, ongoing                  | 250              | 159                     | 64 | 250        | 170       | 68 |  |
| Yes, already done             | 250              | 24                      | 10 | 250        | 41        | 16 |  |
| Yes, after sometime           | 250              | 29                      | 12 | 250        | 18        | 7  |  |
| No, will not administer today | 250              | 37                      | 15 | 250        | 21        | 8  |  |

| 250            | 218  | 87   | 250   | 233  | 93   |
|----------------|--|--|---|--|--|
| 124            | 111  | 90   | 125   | 114  | 91   |
| 126            | 107  | 85   | 125   | 119  | 95   |
| deworming      |  | •  |   |  |  |
| 37             | 23   | 62   | 21  | 10   | 48   |
| 37             | 3  | 8  | 21  | 3  | 14   |
| 37             | 4  | 11   | 21  | 1  | 5  |
| 37             | 4  | 11   | 21  | 4  | 19   |
| 37             | 3  | 8  | 21  | 3  | 14   |
| 30671          | 17998  | 59   | Not Applicable  |  |  |
| 40654          | 22792  | 56   | Not Applicable  | ,  |  |
| Not Applicable | Not Applicable   |  |   | 119  | 48   |
| Not Applicable |  |  | 250   | 179  | 72   |
| Not Applicable | :  |  | 250   | 192  | 77   |
|                | 124  126  deworming  37  37  37  37  37  40654  Not Applicable  Not Applicable | 124 111  126 107  deworming  37 23  37 3  37 4  37 4  37 3  30671 17998  40654 22792  Not Applicable | 124       111       90         126       107       85         deworming       37       23       62         37       3       8         37       4       11         37       4       11         37       3       8         30671       17998       59         40654       22792       56         Not Applicable | 124       111       90       125         126       107       85       125         deworming         37       23       62       21         37       3       8       21         37       4       11       21         37       3       8       21         37       3       8       21         30671       17998       59       Not Applicable         40654       22792       56       Not Applicable         Not Applicable       250         Not Applicable       250 | 124       111       90       125       114         126       107       85       125       119         deworming         37       23       62       21       10         37       3       8       21       3         37       4       11       21       1         37       4       11       21       4         37       3       8       21       3         30671       17998       59       Not Applicable         Not Applicable       250       119         Not Applicable       250       179 |

<sup>-</sup>

<sup>&</sup>lt;sup>15</sup>Schools/anganwadis administered albendazole tablet to children either on NDD or mop-up day

<sup>&</sup>lt;sup>16</sup>Based on the samples visited on NDD.

<sup>&</sup>lt;sup>17</sup>Based on the samples visited on mop-up day only.

<sup>&</sup>lt;sup>18</sup>Others include Don't Know, Helper not well.

 $<sup>^{\</sup>rm 19} Based$  on those schools visited on NDD

<sup>&</sup>lt;sup>20</sup>Based on those schools visited on mop-up day

| administered albendazole tablet                          |     |     |    |     |     |    |
|--|-----|-----|----|-----|-----|----|
| Sufficient quantity of albendazole tablets <sup>21</sup> | 221 | 203 | 92 | 240 | 229 | 95 |

Table PM4: Integrated distribution of albendazole tablets and IEC materials, August 2018

| Indicators   | Schools                 |                |         | Anganwadi        |                |    |  |  |
|--|-------------------------|----------------|---------|------------------|----------------|----|--|--|
|  | Denominator             | Numerator      | %       | Denominator      | Numerator      | %  |  |  |
| Items received by school teacher and <i>anganwadi</i> worker |                         |                |         |                  |                |    |  |  |
| Albendazole tablet   | 250                     | 221            | 89      | 250              | 240            | 96 |  |  |
| Poster/banner  | 250                     | 180            | 72      | 250              | 195            | 78 |  |  |
| Handouts/ reporting form                                     | 250                     | 190            | 76      | 250              | 202            | 81 |  |  |
| Received all materials                                       | 250                     | 165            | 66      | 250              | 170            | 68 |  |  |
| Items verified during Inde                                   | ependent Monito         | oring          |         |                  |                |    |  |  |
| Albendazole tablet   | 221                     | 211            | 95      | 240              | 219            | 91 |  |  |
| Poster/banner  | 180                     | 162            | 90      | 195              | 174            | 89 |  |  |
| Handouts/ reporting form                                     | 190                     | 183            | 97      | 202              | 189            | 94 |  |  |
| Received all materials                                       | 165                     | 149            | 90      | 170              | 148            | 87 |  |  |
| No of school teachers/ang                                    | <i>ganwadi</i> worker a | attended train | ing and | received items d | uring training |    |  |  |
| Albendazole tablet   | 174                     | 164            | 94      | 184              | 176            | 96 |  |  |
| Poster/banner  | 149                     | 142            | 95      | 153              | 147            | 96 |  |  |
| Handouts/ reporting form                                     | 155                     | 149            | 96      | 151              | 154            | 96 |  |  |
| Received all materials                                       | 165                     | 133            | 81      | 170              | 129            | 76 |  |  |

<sup>&</sup>lt;sup>21</sup>This indicator is based on the sample that received albendazole tablet.

| Integrated Distribution<br>albendazole tablet IEC<br>training materials <sup>22</sup> |  | 133 | 53 | 250 | 129 | 52 |  |
|---|--|-----|----|-----|-----|----|--|
|---|--|-----|----|-----|-----|----|--|

Table PM5: Implementation of deworming activity and observation of surveyors, August 2018

| Indicators   | Schools          |           |    | Anganwadi   |           |    |
|--|------------------|-----------|----|-------------|-----------|----|
|  | Denominato<br>r  | Numerator | %  | Denominator | Numerator | %  |
| Deworming activity was taking place                                | 159              | 155       | 97 | 170         | 165       | 97 |
| Albendazole tablets wer  | e administered l | ру        |    | 1           | 1         |    |
| Teacher/headmaster   | 155              | 151       | 97 | 165         | 12        | 7  |
| Anganwadi worker   | 155              | 4         | 3  | 165         | 150       | 91 |
| ASHA   | 155              | 0         | 0  | 165         | 2         | 1  |
| ANM  | 155              | 0         | О  | 165         | 1         | 1  |
| Student  | 155              | 0         | 0  | 165         | О         | 0  |
| Teacher/ <i>Anganwadi</i> worker asked children to chew the tablet | 159              | 151       | 95 | 170         | 157       | 92 |
| Followed any recording protocol <sup>23</sup>                      | 184              | 158       | 86 | 211         | 149       | 71 |
| Protocol followed  |                  |           | I  |             |           |    |
| Putting single/double tick   | 158              | 123       | 78 | 149         | 93        | 62 |
| Put different symbols  | 158              | 19        | 12 | 149         | 11        | 8  |
| Prepare the separate list for dewormed                             | 158              | 16        | 10 | 149         | 45        | 30 |

<sup>&</sup>lt;sup>22</sup>Integrated distribution of NDD kits includes albendazole, banner/poster and handout/reporting forms and provided to schools and AWC during the trainings.

<sup>23</sup>Any recording protocol implies putting single tick ( $\checkmark$ ), double tick ( $\checkmark\checkmark$ ), any other symbol or preparing separate

list for all those children administered albendazole tablets on NDD or mop-up day.

| Visibility of        |     |     |    |     |     |    |
|----------------------|-----|-----|----|-----|-----|----|
| poster/banner during | 180 | 136 | 76 | 195 | 152 | 78 |
| visits               |     |     |    |     |     |    |

# Table PM6: Awareness about Adverse events and Its Management, August 2018

| Indicators   | Schools           |                 |          | Anganwadi       |               |    |
|--|-------------------|-----------------|----------|-----------------|---------------|----|
|  | Denominato<br>r   | Numerato<br>r   | %        | Denominato<br>r | Numerato<br>r | %  |
| Opinion of occurrence of an adverse event after administering albendazole tablet | 250               | 116             | 46       | 250             | 110           | 44 |
| Awareness about possi  | ible adverse even | its (Multiple F | Response | 2)              |               | ı  |
| Mild abdominal pain  | 116               | 89              | 77       | 110             | 78            | 71 |
| Nausea   | 116               | 57              | 49       | 110             | 44            | 40 |
| Vomiting   | 116               | 96              | 83       | 110             | 93            | 85 |
| Diarrhea   | 116               | 20              | 17       | 110             | 13            | 12 |
| Fatigue  | 116               | 19              | 17       | 110             | 20            | 18 |
| All possible adverse<br>event <sup>24</sup>                                      | 116               | 6               | 5        | 110             | 3             | 3  |
| Awareness about mild   | adverse event m   | anagement       |          |                 |               |    |
| Take the child lie<br>down in open and<br>shade/shaded place                     | 250               | 184             | 74       | 250             | 181           | 72 |
| Give ORS/water   | 250               | 102             | 41       | 250             | 92            | 37 |
| Observe the child at least for 2 hours in the school                             | 250               | 57              | 23       | 250             | 42            | 17 |
| Don't know/don't remember  | 250               | 38              | 15       | 250             | 41            | 16 |

 $<sup>^{24}</sup>$ Includes those who are aware that a mild abdominal pain and nausea and vomiting and diarrhea and fatigue can be reported by a child after taking albendazole tablet.

| Call PHC or emergency number                                     | 250            | 162 | 65 | 250 | 152 | 61 |
|--|----------------|-----|----|-----|-----|----|
| Take the child to the hospital /call doctor to school            | 250            | 126 | 51 | 250 | 128 | 51 |
| Don't know/don't remember  | 250            | 29  | 12 | 250 | 24  | 10 |
| Available contact<br>numbers of the<br>nearest ANM or MO-<br>PHC | 250            | 171 | 68 | 250 | 200 | 80 |
| Asha present in<br>Anganwadi center                              | Not Applicable | :   |    | 250 | 126 | 50 |

Table PM7: Selected Indicators of Process Monitoring in Private Schools, August 2018

| Indicators <sup>25</sup>                   | Denominator | Numerator | %  |
|--|-------------|-----------|----|
| Attended training for current round of NDD | 52          | 23        | 44 |
| Received albendazole tablets               | 52          | 33        | 62 |
| Sufficient quantity of albendazole tablets | 33          | 28        | 85 |
| Received poster/banner                     | 52          | 22        | 41 |
| Received handouts/ reporting form          | 52          | 19        | 36 |
| Received SMS for current NDD round         | 52          | 27        | 52 |
| Albendazole administered to children       | 52          | 26        | 49 |
| Reasons for not conducting deworming       |             |           |    |
| No information                             | 26          | 16        | 60 |
| Albendazole tablets not received           | 26          | 3         | 12 |
| Apprehension of adverse events             | 26          | 3         | 12 |
| Already dewormed                           | 26          | 1         | 4  |
| Others <sup>26</sup>                       | 26          | 3         | 12 |

 $<sup>^{25}</sup>$ These indicators are based on small samples; therefore, precautions should be taken while interpreting the results as these are not representative of all private schools in the state

<sup>&</sup>lt;sup>26</sup>Others include Busy, Due to Bihar band, Kanwar yatra, Lack of information.

| Albendazole tablet administered to children by teacher/headmaster <sup>27</sup> | 15   | 15 | 100 |
|---|------|----|-----|
| Perceive that health education should be provided to children                   | 52   | 48 | 92  |
| Awareness about correct dose and right way of albendazole administration        | 52   | 47 | 90  |
| Awareness about non-administration of albendazole tablet to sick child          | 52   | 6  | 11  |
| Opinion of occurrence of an adverse event after taking albendazole tablet       | 52   | 20 | 39  |
| Awareness about occurrence of possible adverse eve                              | ents | 1  |     |
| Mild abdominal pain   | 20   | 17 | 82  |
| Nausea  | 20   | 6  | 30  |
| Vomiting  | 20   | 17 | 81  |
| Diarrhea  | 20   | 5  | 24  |
| Fatigue   | 20   | 2  | 12  |
| Awareness about mild adverse event management                                   | 1    |    |     |
| Let the child rest in an open and shaded place                                  | 52   | 26 | 50  |
| Provide clean water to drink/ORS  | 53   | 17 | 32  |
| Contact the ANM/nearby PHC  | 53   | 22 | 42  |
| Available contact numbers of the nearest ANM or MO-PHC                          | 52   | 30 | 57  |
| Followed correct <sup>28</sup> recording protocol                               | 46   | 19 | 42  |

# Table PM8: Indicators on Mid-Day Meal, August 2018

| Indicators                 | Schools     |           |    |  |
|----------------------------|-------------|-----------|----|--|
|                            | Denominator | Numerator | %  |  |
| Covered under MDM          | 250         | 176       | 70 |  |
| Send daily update from MDM | 176         | 161       | 92 |  |

 $<sup>^{27}</sup>$ This indicator is based on samples where deworming was ongoing.  $^{28}$ Correct recording protocol implies putting single tick ( $\checkmark$ ) on NDD and double tick ( $\checkmark\checkmark$ ) for all those children administered albendazole tablets.

| Aware to send NDD updates through MDM platform | 176          | 145 | 83 |
|--|--------------|-----|----|
| Source of information for NDD updates through  | MDM platform |     |    |
| Training                                       | 145          | 92  | 63 |
| SMS  | 145          | 68  | 46 |
| IVRS   | 145          | 21  | 14 |
| Departmental communication                     | 145          | 14  | 10 |
| Others <sup>29</sup>                           | 145          | 1   | 1  |

Table CV1: Findings from School and Anganwadi Coverage Validation Data

| Sr.No | Indicators   | Schools                |                |      | Anganwadis        |               |    |
|-------|--|------------------------|----------------|------|-------------------|---------------|----|
| •     |  | Denominato<br>r        | Numerato<br>r  | %    | Denominato<br>r   | Numerato<br>r | %  |
| 1     | Percentage of schools/anganwadis conducted deworming <sup>30</sup> | 625                    | 552            | 88   | 625               | 603           | 97 |
|       | Percentage of conducted deworming in Government schools            | 482                    | 462            | 96   | Not Applicable    |               |    |
|       | Percentage of conducted deworming in Private schools               | 143                    | 89             | 63   | Not Applicable    | :             |    |
| 1a    | Percentage of school ar<br>Response)                               | nd <i>anganwadis</i> a | dministered al | bend | azole on day of - | - (Multiple   |    |
|       | a. National<br>Deworming<br>Day                                    | 552                    | 522            | 95   | 603               | 560           | 93 |
|       | b. Mop-up day  | 552                    | 493            | 89   | 603               | 521           | 86 |

 $<sup>^{\</sup>rm 29}$  Others include Newspaper.  $^{\rm 30} S chools$  and ang anwad is that conducted deworming on NDD or mop-up day.

|            | - D.  | 1                 | 1           | I        | (              | I   |    |
|------------|---|-------------------|-------------|----------|----------------|-----|----|
|            | c. Between<br>NDD and<br>mop-up day   | 552               | 29          | 5        | 603            | 53  | 9  |
|            | d. Both days<br>(NDD and<br>mop-up day)   | 552               | 484         | 88       | 603            | 513 | 85 |
| 1b         | Reasons for not conduc  | cting deworming   | <u> </u>    |          |                |     |    |
|            | a. No information   | 73                | 53          | 72       | 22             | 16  | 72 |
|            | b. Tablets not received   | 73                | 13          | 18       | 22             | 4   | 20 |
|            | c. Apprehension of adverse events   | 73                | 4           | 6        | 22             | 1   | 5  |
|            | d. Others <sup>31</sup>   | 73                | 4           | 5        | 22             | 1   | 3  |
| 2          | Percentage of schools<br>and <i>anganwadis</i> left<br>over with<br>albendazole tablet<br>after deworming | 552               | 263         | 48       | 603            | 441 | 73 |
| <b>2</b> a | Number of albendazole   | tablets left afte | r deworming | <u> </u> |                |     |    |
|            | a. Less than 50 tablets   | 263               | 188         | 71       | 441            | 244 | 55 |
|            | b. 50-100 tablets   | 263               | 50          | 19       | 441            | 131 | 30 |
|            | c. More than 100 tablets  | 263               | 26          | 10       | 441            | 66  | 15 |
| 3          | Copy of filled-in reporting form was available for verification   | 552               | 335         | 61       | 603            | 301 | 50 |
|            | Copy of filled-in reporting form was available for verification in Government schools                     | 462               | 292         | 63       | Not Applicable | )   | I  |
|            | Copy of filled-in reporting form was  | 89                | 43          | 48       | Not Applicable |     |    |

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 $<sup>^{\</sup>scriptscriptstyle{31}}$  Other includes Emergency work, don't know.

|    | available for<br>verification in<br>Private schools                |                |             |                      |     |     |    |
|----|--|----------------|-------------|----------------------|-----|-----|----|
| 3a | Reasons for non-availa   | bility of copy | of reportin | g form <sup>32</sup> | 1   |     |    |
|    | a. Did not received  | 179            | 65          | 36                   | 227 | 84  | 37 |
|    | b. Submitted to ANM  | 179            | 33          | 19                   | 227 | 74  | 32 |
|    | c. Unable to locate  | 179            | 34          | 19                   | 227 | 52  | 23 |
|    | d. Others <sup>33</sup>  | 179            | 47          | 26                   | 227 | 18  | 8  |
| 4  | Percentage of Anganwadi center where ASHA administered albendazole | Not Applicab   | le          |                      | 603 | 333 | 55 |
| 5  | Anganwadis having list of unregistered children (aged 1-5 years)   | Not Applicab   | le          |                      | 603 | 232 | 39 |
| 6  | Anganwadis having list of out-of-school children (aged 6-19 years) | Not Applicab   | le          |                      | 603 | 201 | 33 |

Table CV2: Selected indicators based on ASHA's interview at *Anganwadi* Centre, Coverage Validation Data

| Sr. No. | Indicators   | Anganwadis  |           |    |  |  |
|---------|--|-------------|-----------|----|--|--|
|         |  | Denominator | Numerator | %  |  |  |
| 1       | ASHA <sup>34</sup> conducted meetings with parents to inform about NDD | 245         | 208       | 85 |  |  |
| 2       | ASHA prepared list of unregistered and out-of-school children          | 245         | 122       | 50 |  |  |

 $<sup>^{\</sup>rm 32}$  In 78 schools and 105 anganwadis blank reporting form was available.

<sup>&</sup>lt;sup>33</sup>Other includes schools closed and administer tablet on other day and Principal or teacher absent in the school <sup>34</sup>Surveyors were instructed to call ASHA at *anganwadi* centers during coverage validation and collect relevant information. Surveyors could only cover those ASHA's who were able to join for interview because it was not mandatory for ASHA's to attend.

| 3 | ASHA shared the list of unregistered and out-of-school children with <i>angnawadis</i> teacher <sup>35</sup> | 122 | 91  | 75 |
|---|--|-----|-----|----|
| 4 | ASHA administered albendazole to children  | 245 | 207 | 84 |
| 5 | ASHA received incentive for NDD<br>Aug 2017 round  | 245 | 39  | 16 |

Table CV3: Recording protocol, verification factor and school attendance

| Sr. No. | Indicators   | Schools/Children |           |    | Anganwadis/Children |               |    |
|---------|--|------------------|-----------|----|---------------------|---------------|----|
|         |  | Denominator      | Numerator | %  | Denominator         | Numerato<br>r | %  |
| 1       | Followed correct <sup>36</sup> recording protocol                  | 552              | 245       | 45 | 603                 | 192           | 32 |
| 2       | Followed partial <sup>37</sup> recording protocol                  | 552              | 56        | 10 | 603                 | 111           | 18 |
| 3       | Followed no <sup>38</sup> recording protocol                       | 552              | 251       | 45 | 603                 | 300           | 50 |
|         | Followed correct<br>recording protocol<br>in Government<br>schools | 462              | 223       | 48 | Not Applicable      | 1             |    |
|         | Followed correct<br>recording protocol<br>in Private schools       | 89               | 22        | 25 | Not Applicable      |               |    |
| 4       | State-level verification   | 59109            | 31653     | 54 | 36831               | 21555         | 59 |

<sup>35</sup>Based on sub-sample who reported to prepare the said list

<sup>&</sup>lt;sup>36</sup>Correct recording protocol includes schools/*anganwadis* where all the classes/registers put single tick ( $\checkmark$ ) on NDD and double tick ( $\checkmark$  $\checkmark$ ) on mop-up day to record the information of dewormed children.

<sup>&</sup>lt;sup>37</sup>Partial recording protocol includes schools/*anganwadis* where all the classes/registers did not follow correct protocol, put different symbols and prepared separate list to record the information of dewormed children.

<sup>&</sup>lt;sup>38</sup>No protocol includes all those schools/*anganwadis* where none of the classes/registers followed any protocol to record the information of dewormed children

|   | factor <sup>39</sup> (children<br>enrolled/registere<br>d)                       |                |        |    |                |      |    |
|---|--|----------------|--------|----|----------------|------|----|
|   | a. Children registered with anganwadi s  | Not Applicable |        |    | 18327          | 8468 | 46 |
|   | b. Children unregister ed with anganwadi s (Aged 1- 5)                           | Not Applicable |        |    | 10692          | 7456 | 70 |
|   | c. Out-of-<br>school<br>children<br>(Aged 6-<br>19)                              | Not Applicable |        |    | 7812           | 5631 | 72 |
| 5 | Attendance on previous day of NDD (children enrolled)                            | 154705         | 103864 | 67 | Not Applicable |      |    |
| 6 | Attendance on<br>NDD (children<br>enrolled)                                      | 154705         | 100930 | 65 | Not Applicable |      |    |
| 7 | Attendance on<br>mop-up day<br>(children enrolled)                               | 154705         | 97604  | 63 | Not Applicable |      |    |
| 8 | Children who<br>attended on both<br>NDD and mop-up<br>day (children<br>enrolled) | 154705         | 74480  | 48 | Not Applicable |      |    |
| 9 | Maximum<br>attendance of<br>children on NDD                                      | 154705         | 124054 | 80 | Not Applicable |      |    |

 $<sup>^{39}</sup>$ Ratio of recounted value of the dewormed children to the reported value. This calculation is based on only those schools (n=335) and *anganwadis* (n=301) where deworming was conducted and copy of reporting form was available for verification.

|    | and mop-up day <sup>40</sup><br>(Children enrolled) |    |  |                |
|----|---|----|--|----------------|
| 10 | Estimated NDD coverage <sup>4142</sup>              | 66 |  | 41             |
| 11 | Estimated NDD coverage in Government schools        | 69 |  | Not Applicable |
| 12 | Estimated NDD coverage in Private schools           | 51 |  | Not Applicable |

Table CV4: Description on children (6-19 years) interviewed in the schools (n=552) during coverage validation

| Sr. |  |                       |          |    |
|-----|--|-----------------------|----------|----|
| N   |  | Denominato            | Numerato |    |
| O   | Indicators                                       | r                     | r        | %  |
| 1   | Children received albendazole tablets            | 1655                  | 1598     | 97 |
| 2   | Children aware about the albendazole tablets     | 1598                  | 1388     | 87 |
|     | Source of information about deworming among chil | dren (Multiple respon | ise)     | l  |
| 3   | a. Teacher/school                                | 1388                  | 1361     | 98 |
|     | b. Television                                    | 1388                  | 68       | 5  |
|     | c. Radio   | 1388                  | 40       | 3  |
|     | d. Newspaper                                     | 1388                  | 59       | 4  |
|     | e. Poster/Banner                                 | 1388                  | 120      | 9  |
|     | f. Parents/siblings                              | 1388                  | 95       | 7  |
|     | g. Friends/neighbors                             | 1388                  | 53       | 4  |

<sup>&</sup>lt;sup>40</sup>Maximum attendance refers to the total attendance of children who were exclusively present in school either on NDD or mop-up day and children who attended school on both days.

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<sup>&</sup>lt;sup>41</sup> This was estimated on the basis of NDD implementation status, attendance on NDD and mop-up day, whether child received albendazole and its supervised administration. Since no child interview is conducted at *anganwadis*; this has not been estimated for *anganwadis*.

<sup>&</sup>lt;sup>42</sup>This was estimated by implying state-level verification factor on government reported coverage for 1-5 years registered children in AWC.

| 4 | Children aware about the worm infection  | 1598 | 883  | 55  |  |  |  |  |
|---|--|------|------|-----|--|--|--|--|
| 5 | Children awareness about different ways a child can get worm infection (Multiple response) |      |      |     |  |  |  |  |
|   | a. Not using sanitary latrine  | 883  | 313  | 35  |  |  |  |  |
|   | b. Having unclean surroundings   | 883  | 563  | 64  |  |  |  |  |
|   | c. Consume vegetables and fruits without washing   | 883  | 407  | 46  |  |  |  |  |
|   | d. Having uncovered food and drinking dirty water  | 883  | 306  | 35  |  |  |  |  |
|   | e. Having long and dirty nails   | 883  | 351  | 40  |  |  |  |  |
|   | f. Moving in bare feet   | 883  | 338  | 38  |  |  |  |  |
|   | g. Having food without washing hands   | 883  | 351  | 40  |  |  |  |  |
|   | h. Not washing hands after using toilets   | 883  | 203  | 23  |  |  |  |  |
| 6 | Children consumed albendazole tablet   | 1598 | 1591 | 100 |  |  |  |  |
| 7 | Way children consumed the tablet   |      |      |     |  |  |  |  |
|   | a. Chew the tablet   | 1591 | 1479 | 93  |  |  |  |  |
|   | b. Swallow tablet directly   | 1591 | 112  | 7   |  |  |  |  |
| 8 | Supervised administration of tablets   | 1591 | 1530 | 96  |  |  |  |  |
| 9 | Reasons for not consuming albendazole tablet   |      |      |     |  |  |  |  |
|   | a. Feeling sick  | 7    | 4    | 59  |  |  |  |  |
|   | b. Afraid of taking the tablet   | 7    | 2    | 29  |  |  |  |  |
|   | c. Parents told me not to have it  | 7    | 1    | 13  |  |  |  |  |
|   | d. Do not have worms so don't need it  | 7    | О    | О   |  |  |  |  |
|   | e. Did not like the taste  | 7    | О    | О   |  |  |  |  |