

## 1: METHODOLOGICAL OUTLINES

Conceptually, a baseline survey is the study that is done at the beginning of a project to establish the status quo before the project is rolled out. In the baseline surveys, the data is gathered at the outset of a project to portray the pre-project conditions against which future changes amongst a target population can be measured. The information gathered in the baseline consists of data on indicators specifically chosen to monitor project performance on a regular basis. Baseline survey also considers the anticipated use of these indicators at the later time to investigate project effects and impacts. Baseline surveys also provide the basis for subsequent assessment of how efficiently the activity is being implemented and the eventual results achieved and which has a very big bearing on project performance. Lastly, since M&E is integral for any donor to establish future success, they also demand implementing organizations to carryout baseline surveys. In the current baseline survey, an attempt is made to present the existing status of water use, the cropping patterns and yield, the livestock possesses, labor use patterns, female contribution in farming, etc.

### 1.1 SURVEY METHODOLOGY

A research or survey methodology constitutes the blue print for the collection, measurement and analysis of the data (Kothari, 2005). Baseline design involves the planning of the whole survey project and the outlining the steps to take when conducting the survey. In the following paragraphs, the concepts and areas involved are delineated.

### 1.2 SAMPLING FRAMEWORK

For the baseline survey sampling frame were those interventions for which **Technical Sanctions are issued**. While samples of these intervention beneficiaries were collected. These beneficiaries consist of the farmers who will use the additional water and or other benefits from NPIWC-II. The beneficiaries consist of two types of farmers:

- The owners of a piece of land on the particular watercourse and members of the “Water Users Associations”.
- The farmers use the water of the same watercourse but not the owners of the land. They are the tenants, cultivating land either on leasing or on share bases.

#### 1.2.1. Stage-I: Selection of Watercourse

Keeping in view the time, resources and size of the overall size (#) sampling framework, the baseline was planned to be conducted on 2 to 3 % of total planned watercourses. As watercourses were not pre-selected, the sample watercourses were selected at random in phases out of those watercourses for which *Technical Sanctions were issued*. Thus, 1<sup>st</sup> baseline survey was conducted on 54 watercourses selected randomly for which Technical Sanction was issued. Baseline Phase-1 was conducted on 15<sup>th</sup> June 2021. The sample of 54 watercourses was selected from the available TS based inventory at Province and District level proportionately.

#### 1.2.2. Stage-II: Selection of Farmer

During the survey, ME&IE field team prepare the list of Shareholders/Beneficiaries on the selected watercourse for second stage sampling. These lists served as sampling frames for the selection of farm households. All the listed shareholders/beneficiaries were divided into three groups, i.e., head, middle and tail. Hence, from each group two households were selected at random for each watercourse. Thus, total number of 324 farmers were randomly selected and their distribution is given in Table 2.1. However, during this selection, due consideration was given to the representation of farm sizes. Moreover, if any female headed farm household was found, that household was purposively selected. If more than one female farm households were found in the same category, then one of them was chosen at random.

Since the ME&IE teams must visit each of the selected household possibly for two times (i.e., baseline, mid-term, or end-term), the availability of the household in the village was also considered while taking the household as sample.

### 1.2.3. Sample Size Estimation

For determining the sample size, the total number of watercourses was taken as the target population. A sample size of 2 to 3 (%) percent of the total targeted number of interventions were drawn by using simple sampling approach. The sample drawn is divided in proportion of the population amongst provinces/ units/districts, and Union Council/Villages.

The study applied Cochran's Sample Size Formula (Glen, 2021).

$$n = \frac{n_0}{1 + \frac{(n_0 - 1)}{N}}$$

Its most popular form used is given below:

$$\text{Sample Size (n)} = Z\alpha^2 (p) (1-p) / (d)^2$$

Where: "n" is the sample size, "t" is the value for the selected alpha level, e.g., 1.96 for (0.25 in each tail) a 95 percent confidence level. "p" is the estimated proportion of an attribute that is present in the population. "q" is 1-p. (p)(q) are the estimate of variance. "d" is the acceptable margin of error for proportion being estimated, so the confidence interval, in decimals.

The overall sample size of various total project interventions area has been estimated at 2% to 3%. The overall NPIWC-II area comprises three provinces namely Punjab, KP and Balochistan, and three units i.e., GB, AJK, ICT. Sample size for each intervention is given in Table-1.

**Table-1: Selection of watercourses at stage-I**

| Province/Unit | Category of WC    | Samples WCs |
|---------------|-------------------|-------------|
| Punjab        | 20 Years Old      | 1           |
|               | Additional Lining | 14          |
|               | Regular (New)     | 4           |
|               | <b>Sub-Total</b>  | <b>19</b>   |
| KP            | 20 Years Old      | -           |
|               | Additional Lining | 2           |
|               | Regular (New)     | 15          |
|               | <b>Sub-Total</b>  | <b>17</b>   |
| Balochistan   | 20 Years Old      | -           |
|               | Additional Lining | -           |
|               | Regular (New)     | 11          |
|               | <b>Sub-Total</b>  | <b>11</b>   |
| AJK           | 20 Years Old      | 1           |
|               | Additional Lining | 1           |
|               | Regular (New)     | 2           |
|               | <b>Sub-Total</b>  | <b>4</b>    |
| GB            | 20 Years Old      | -           |
|               | Additional Lining | -           |
|               | Regular (New)     | 1           |
|               | <b>Sub-Total</b>  | <b>1</b>    |
| ICT           | 20 Years Old      | -           |
|               | Additional Lining | -           |
|               | Regular (New)     | 2           |
|               | <b>Sub-Total</b>  | <b>2</b>    |
| Overall       | 20 Years Old      | 2           |
|               | Additional Lining | 17          |
|               | Regular (New)     | 35          |
|               | <b>Total</b>      | <b>54</b>   |

District wise sample distribution is given under their respective Zone section.

**Table-2: District wise sample distribution by location at the watercourse**

| Prov.          | Category of WC    | Head       | Middle     | Tail       | Total      |
|----------------|-------------------|------------|------------|------------|------------|
| Punjab         | 20 Years Old      | 2          | 2          | 2          | 6          |
|                | Additional Lining | 28         | 28         | 28         | 84         |
|                | Regular (New)     | 8          | 8          | 8          | 24         |
|                | <b>Sub-Total</b>  | <b>38</b>  | <b>38</b>  | <b>38</b>  | <b>114</b> |
| KP             | 20 Years Old      | -          | -          | -          | -          |
|                | Additional Lining | 4          | 4          | 4          | 12         |
|                | Regular (New)     | 30         | 30         | 30         | 90         |
|                | <b>Sub-Total</b>  | <b>34</b>  | <b>34</b>  | <b>34</b>  | <b>102</b> |
| Balochistan    | 20 Years Old      | -          | -          | -          | -          |
|                | Additional Lining | -          | -          | -          | -          |
|                | Regular (New)     | 22         | 22         | 22         | 66         |
|                | <b>Sub-Total</b>  | <b>22</b>  | <b>22</b>  | <b>22</b>  | <b>66</b>  |
| AJK            | 20 Years Old      | 2          | 2          | 2          | 6          |
|                | Additional Lining | 2          | 2          | 2          | 6          |
|                | Regular (New)     | 4          | 4          | 4          | 12         |
|                | <b>Sub-Total</b>  | <b>8</b>   | <b>8</b>   | <b>8</b>   | <b>24</b>  |
| GB             | 20 Years Old      | -          | -          | -          | -          |
|                | Additional Lining | -          | -          | -          | -          |
|                | Regular (New)     | 2          | 2          | 2          | 6          |
|                | <b>Sub-Total</b>  | <b>2</b>   | <b>2</b>   | <b>2</b>   | <b>6</b>   |
| ICT            | 20 Years Old      | -          | -          | -          | -          |
|                | Additional Lining | -          | -          | -          | -          |
|                | Regular (New)     | 4          | 4          | 4          | 12         |
|                | <b>Sub-Total</b>  | <b>4</b>   | <b>4</b>   | <b>4</b>   | <b>12</b>  |
| <b>Overall</b> |                   | <b>108</b> | <b>108</b> | <b>108</b> | <b>324</b> |

Out of these beneficiaries a sample of 15-20% was drawn proportionally from head, middle and tail particularly in case of watercourse.

This number may vary with increase or decrease in number of beneficiaries. However, due consideration was given to get the representation of the farm size and tenurial status of the beneficiaries in the sample. The purpose of sampling at different locations is to compare the benefits of water usage at different locations on improved intervention after the project activity.

### 1.3 QUESTIONNAIRES DEVELOPMENT

Collecting data by questionnaire has the advantage of being systematic, cheap, quick and reliable. The questionnaire should contain the queries that you would like to ask the respondents. While designing the survey, the profile of the respondents and on-ground situation must be taken into consideration. Lastly, the terminologies used in the questionnaire should be carefully selected, as these should be well understood by the interviewers and they should be able to effectively convey to the respondents, so that accurate reliable answers can be taken from them. A good questionnaire has four qualities: a) it enables a researcher to draw accurate information; ii) questions are arranged in a logical sequence to work smoothly; c) yields minimum variation in qualitative answers and desired variation for quantitative responses; and, d) facilitate researcher in data processing.

The following sets of questionnaires were developed for gathering different aspects of the project monitoring and evaluation in future.

**Table-3: Questionnaires designed, and information sought during the baseline survey**

| Sr # | Code | Questionnaire                       |
|------|------|-------------------------------------|
| 1    | MT-1 | Brief Profile of Watercourses       |
| 2    | MT-2 | List of Shareholder & Beneficiaries |
| 3    | MT-3 | Farmer's Feedback & Environment     |
| 4    | MT-4 | Farming Inputs & Outputs            |
| 5    | MT-5 | Social & Gender                     |

The aspects covered in the above sets of questionnaires are delineated in Table-4.

#### **1.4 PPRETESTING & FINALIZATION OF THE QUESTIONNAIRES**

Before formally initiating the field survey, the questionnaires were pre-tested and changes felt necessary for smooth working of the questionnaires were duly incorporated. The Questionnaires/Tools refinement was made under the observations perceived during the Pretesting of the Questionnaires during April 2021.

#### **1.5 SELECTION OF SURVEY TEAMS**

In total, 10 field teams were hired comprising 3 for Punjab, 3 for KP & GB, 3 for Balochistan, and 1 for ICT & AJ&K. The team details are given in respective zone sections. The Organogram (Figure 2) of the ME&IE Key & Non-Key Project team is as below:

#### **1.6 DEVELOPMENT OF BASELINE SURVEY MANUAL**

A survey manual provides basic concepts about surveying and is intended for use in the training course and helped enumerator for better understanding of the questionnaire and monitoring tools.

Project prepared a manual for baseline survey; this manual includes all the Modules (Questionnaire) which were used in the field area through Android. Each question is properly explained, and a detail of methodology has been explained in coming pages for what care should be taken before and during execution of these questionnaires.

#### **1.7 TRAINING OF THE ENUMERATORS**

The survey team consisted of at least graduates belonging to different provinces, fluent in speaking local languages and at least working spoken English language.

Enumerator training is an extremely important part of the primary data collection, and should be planned in advance. It is a joint effort between the field coordinators, the survey firm, and other members of the impact evaluation team (or research team).

Comprehensive training of all teams was arranged at their respective offices. For consistency purposes, a joint meeting of the survey team was arranged to discuss the questionnaire and the ways of asking various questions (especially sensitive and indirect questions) before leaving for the study area. Training content was designed according to the Baseline survey objectives during March 2021.

#### **1.8 TRAINING ON ANDROID BASED DATA COLLECTION APPLICATION**

Four-Days virtual training was organized by the ICT Department from 03-05-2021 to 06-05-2021 for the Field Team members (interviewers) and Field Team In-Charge (Field Supervisors) of different Sub Zones.

The main objective of the training was to build capacity among Field Team In-charge and Field Engineers/Data Collectors to use the data collection application independently for Baseline Survey.

**1.9 THE DATA COLLECTION**

The baseline survey Phase-I was started on 15<sup>th</sup> June 2021 simultaneously in all Zones/Units. The data collection work was completed on 26<sup>th</sup> June 2021. A Computer Assisted Personal Interviewing (CAPI) platform was developed for all the baseline data collection forms. The CAPI is a tab-based Android application. All the data collection teams had been given training on CAPI and each team member was given a tab with CAPI installed. Each team was also given an internet device so that the team could update the database daily. The internet connection also enabled core team at the National Office to monitor locations of the teams.

Android is a mobile operating system. It is designed mainly for smartphones and tablets. Before the data collected from the field on various relevant Proforma / questionnaires were programmed in android form so that it may be transmitted immediately to the Management Information System (MIS) directly from the field. It not only saves time, data entering exercise but also will ensure the quality of data.

**1.10 FIELD TEAM MOBILIZATION AND SELECTION OF DISTRICTS**

The baseline survey Phase-I was started on 15<sup>th</sup> June 2021 simultaneously in Punjab, Balochistan, KP, ICT, AJK, & GB. The data collection work was completed on 24<sup>th</sup> June 2021 in all units.

In Balochistan, three field teams were established, Team 1 covered Naseerabad and Sohbatpur districts, Team 2 Covered Mastung, Killa Abdullah, Killa Saifullah and Loralai (04 districts) & Team 3 covered Quetta, Pishin, and Kalat districts.

In KP three teams were formed, Team -1 covered Peshawar & Mardan zone, Team 2 covered Bannu, DI Khan & Kohat area & Team 3 covered Hazara & GB area.

In Punjab three teams collected data during the period, Team 1 covered Lahore Faisalabad Sahiwal Districts, Team 2 covered Gujranwala Sargodha Districts & Team 3 covered Multan, Bahawalpur, D.G. Khan Districts.

In ICT & AJ&K, one field team was established, they covered ICT, AJ&K areas and covered Chakwal, Rawalpindi, Jhelum, and Attock Districts.

All the field teams worked without break on weekends/holidays to keep the momentum of activity & intact with data Collection Schedule approved and used an android app for collection of data. The cooperation and assistance provided by OFWM field teams and staff of district and regional level to M&E survey teams in completing their tasks was commendable.

Each team was also given an internet device so that the team could update the database daily. The internet connection also enabled the core team at ICT office to monitor locations of the teams.

**1.11 QUALITY ASSURANCE DURING DATA COLLECTION**

The data quality through Android application was ensured throughout the data collection and compilation/tabulation process with respect to completeness, accuracy, and timeliness, through continuous feedback/support and close monitoring by team leader throughout the data collection/tabulation process. This approach has inbuilt mechanism to monitor the data collection, both in terms of progress of work and of quality of the collected data, throughout the process. This makes it possible for the team leader to virtually keep track, provide feedback, correct mistakes and if necessary, and request re-visits. This mechanism was allowed to be corrected during data collection process, without waiting for the time when entire data would be collected and entered because meanwhile all the field team would have returned to their home-base.

The provision of detailed guidelines and timeline, consistency in the definitions/terminology used, and structured procedures of each activity helped in ensuring the data quality.

Finally, qualitative data was collected, which will be used to highlight significant stories of change (in target area) and will be shared with the client to follow up on. Such individuals can be followed over the duration of the

project for follow-up interviews, to get more data to assess the incremental change in their lives along with underlying reasons.

## **1.12 THE DATA ANALYSIS**

The data collection process through the Android application passes through the input data form built-in logical flows and validation checks on the fly to improve the data quality. The received data through android application to aggregate server, store all data in central database. Which further put processes from data cleaning, data validation to data analysis for the preparation of final summary tables and detailed annexure tables.

A dedicated ICT team consisting of Data Analysts worked on to systematize the variables and define coding schemes in SPSS (Statistical Package for the Social Sciences). The analysis process was done by adopting multiple statistical and analytical techniques. Regression analysis and correlations were adopted as per the requirement for relationship among independent and dependent data variables.

By using the primary data collected from field and secondary data, several calculations were performed to obtain the indicators-based values.

## **1.13 LAND UTILIZATION AND CROPPING INTENSITY**

Monitoring land use patterns has been considered as an important indicator for future monitoring the effects and impacts.

Land utilization means classifying farm area according to its use as cultivated area (net sown area and current fallow) and uncultivated area (forests, culturable waste (*Banjar Jadeed* and *Banjar Qadeem*), and area not available for cultivation). Total culturable area includes cultivated area and culturable waste.

The following terms are used while estimating the land use patterns. Two parameters are estimated out of it, i.e., land use intensity and cropping intensity. The following terms are employed for their estimation.

- i. Total area reported: It can be the total physical area of the farm, village, tehsil, or district etc. It includes cultivated area (net area sown + current fallow), culturable waste, unculturable land and forest area.
- ii. Forest Area: The area of any land classed or administered as forest under any legal enactment dealing with forests. Any cultivated area which may exist within such forest should be excluded and shown under the heading cultivated area.
- iii. Total cropped area: The sum of total area sown during Kharif and Rabi seasons during a given year including Zaid Karif and Zaid Rabi.
- iv. Not available for cultivation: The land absolutely barren, roads, canals, tanks, beds of rivers, torrents and ravines, sites of villages, houses hills, mountains. Sand dunes and all land devoted to uses alien to agriculture.

At farm level, the area not available for cultivation is that part of the uncultivated area of the farm house, barn, storage, farm roads and channels etc.

- v. Culturable waste: All cultivable land not actually cultivated. It should include all grazing and other land not included under forest.

At farm level, culturable waste is that uncultivated farm area which is otherwise fit for cultivation but was not cropped during the census year or in the year before due to any constraint like non-availability of water, water logging, salinity, non-leveling, manpower and/or financial problems.

- vi. Cultivated area: The land currently being used for agricultural purposes, included land under crops, orchards as well as current fallow. It is the area net sown plus current fallow. At farm level, the cultivated pertains to the area sown at least once during the survey year or a year before. It is the sum of net sown area and current fallow.

vii. Current fallow: The part of the cultivated area which has not been used for cropping during the year under reference but for which the total vacant period does not exceed three crop seasons. The land remaining vacant for more than three successive seasons is shown under the head "cultivable waste".

At farm level, current fallow means that cultivated farm area which was not cropped during the survey year for the purpose of regaining fertility and/or other reasons, but was cropped during preceding year.

viii. Net area sown: The area which has been sown at least once in a year. It will include area under crops, fruit, vegetable etc. At farm level, the net sown area refers to the cultivated farm area which was actually cropped during the survey year regardless of whether crop was harvested or failed and/or the number of crops raised, and also includes area under orchards.

ix. Area sown more than once: The difference between the total cropped area and net sown.

The cropping pattern on a farm shows the relative share of each crop in total cropped area grown in one year. It was computed as:

$$PA_i = \frac{AR_i}{\sum_{i=1}^n AR_i} \cdot 100$$

Where:

$PA_i$  = Percent of total cropped area under  $i$ th crop in a cropping season.

$AR_i$  = Total area under  $i$ th crop in a cropping season.

$\Sigma AR_i$  = Total cropped area (sum of area under various crops) in a cropping season.

The cropping intensity refers to the ratio of cropped area to the total area cultivated expressed in percentage. The formula used for computing cropping intensity is given below.

Cropping Intensity = (Total cropped Area ÷ Total Cultivated Area) × 100

Total cropped area means the aggregate area of crops raised at a farm during the year including the area under orchards or gardens.

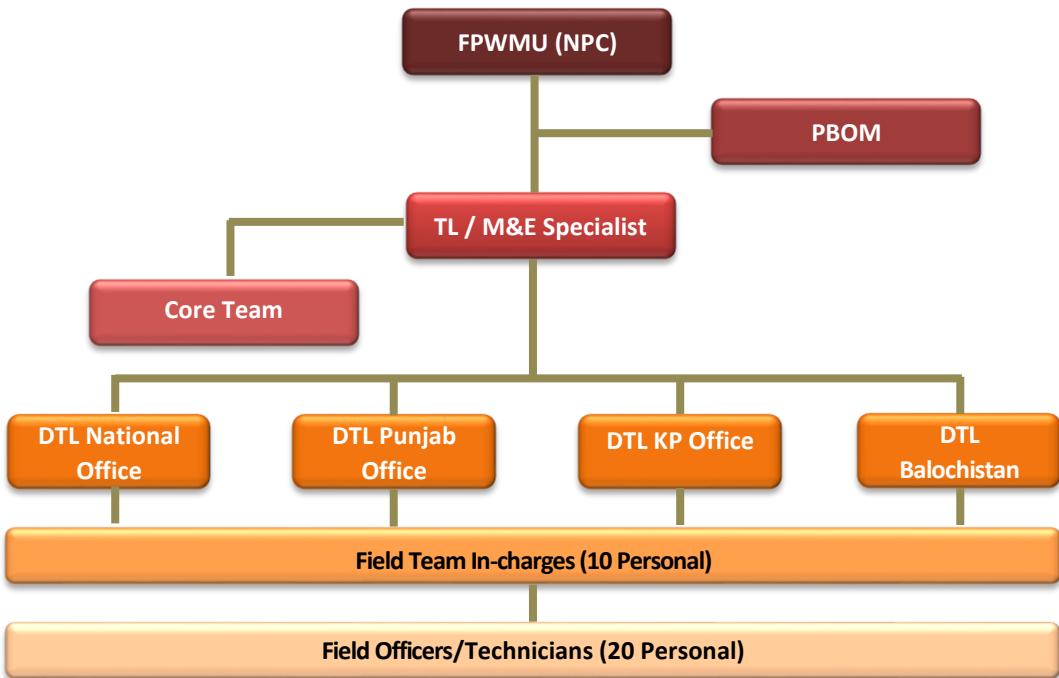
Land use intensity represents the cultivated area measured in terms of total culturable area multiplied by 100.

Land Use Intensity = (Total cultivated area ÷ Total Culturable Area) × 100

**Table-4: Aspects of information included for gathering data from sampled farmers in the project NPIWC-II project area.**

| Profile of sampled watercourses (MT-WC-01) | Profile of the shareholders & beneficiaries (MT-WC-02) | Beneficiary farmers' farming profile (MT-WC-03)      | Beneficiary farm household's profile (MT-WC-04A) | Crop farming by Beneficiary farmer (MT-WC-04B)                     | Beneficiary's views about water saving (MT-WC-04C) | Social Structure and Gender (MT-WC-05) |
|--|--|--|--|--|--|--|
| Identification                             | Identification   | Identification                                       | Identification                                   | Identification   | Identification                                     | Identification                         |
| Nature of irrigation method used           | Beneficiary's farming profile                          | Land composition                                     | Beneficiary's profile                            | Area allocated to various field and horticultural crops by seasons | Beneficiary perceptions about water saving         | Personal profile                       |
| Previous improvement s record              | Status of beneficiary in Water Users Association       | Water Users' Association Details Before Construction | Farming household's profile                      | Land preparation activities by crops                               | Pre- and post-lining water availability situation  | Farming control                        |

| Profile of sampled watercourses (MT-WC-01) | Profile of the shareholders & beneficiaries (MT-WC-02) | Beneficiary farmers' farming profile (MT-WC-03)     | Beneficiary farm household's profile (MT-WC-04A) | Crop farming by Beneficiary farmer (MT-WC-04B)                         | Beneficiary's views about water saving (MT-WC-04C)     | Social Structure and Gender (MT-WC-05)            |
|--|--|---|--|--|--|---|
| Location of the farm w.r.t. watercourse    | Location of the beneficiary w.r.t. watercourse         | Prevalence of waterlogging and salinity             | Farm size and tenurial status                    | Laser land leveling details, if carried out by crops                   | Pre- and post-lining area irrigated                    | Farming and household related decisions processes |
| Water supply nature of the watercourse     |  | Use of watercourse water other than agriculture     | Livestock farming profile                        | Seedbed preparation activities by crops                                | Views about more equitable water distribution achieved | Knowledge about NPIWC-II                          |
|  |  | <i>A priori</i> anticipations about project outputs |  | Seed sowing and seedlings plantation by crops                          |  |   |
|  |  | Post project farming plans and strategies           |  | Fertilizer use patterns by crops                                       |  |   |
|  |  | Labor use patterns                                  |  | FYM application by crops   |  |   |
|  |  | During construction aspects                         |  | Plant protection measures by crops                                     |  |   |
|  |  | Labor use patterns                                  |  | Canal and tubewell irrigations by crops                                |  |   |
|  |  | Future environment                                  |  | Crop specific operations hoeing, thinning, mulching, pruning, stalking |  |   |
|  |  |   |  | Harvesting/picking by crops  |  |   |
|  |  |   |  | Yield obtained by crop types   |  |   |
|  |  |   |  | Price obtained by crops  |  |   |
|  |  |   |  | Pre-harvest contracting price of fruit orchards                        |  |   |



FPMU Federal Project Management Unit  
 DTL Deputy Team Leader  
 M&E Monitoring and Evaluation

PBOM --- Project Board of Management  
 TL --- Team Leader

Figure-1: Organogram of ME&IE Key & Non-Key Project team

$$\text{Sample Size (n)} = Z\alpha^2 (p) (1-p) / (d)^2$$

Where "d" is the margin of error, which is 10 %; "p" is prevalence i.e. the probability of the indicator to be measured that is 50%. The Consultants will apply 95% confidence level ( $Z\alpha = 1.96$ ) that the true value for an indicator would be within two Standard Errors (S.E.) of prevalence (p).

### Sample Size Estimation by Random Sampling

|   |                  |
|---|------------------|
| <b>Sample Frame</b>   | <b>2,655,887</b> |
| Confidence Interval   | 95%              |
| <b>Z-Value</b>  | <b>1.96</b>      |
| <b>Expected Margin of Error (e)</b>                         | <b>5%</b>        |
| Expected frequency for key outcomes (p)                     | 50%              |
| $q = (1-p)$   | 50%              |
| <b>Required Sample Size if Total Population was unknown</b> | <b>384</b>       |
| <b>Required Sample Size in final cleaned data</b>           | <b>384</b>       |
| Expected Rejected Data Rate                                 | 10%              |
| <b>Sample Size</b>  | <b>423</b>       |
| Design Effect   | 1                |
| <b>Final Sample Size</b>                                    | <b>423</b>       |

### Random Sampling

|  |             |
|--|-------------|
| <b>Sample Frame</b>                                  | <b>38</b>   |
| Confidence Interval                                  | 95%         |
| <b>Z-Value</b>                                       | <b>1.96</b> |
| <b>Expected Margin of Error (e)</b>                  | <b>20%</b>  |
| Expected frequency for key outcomes (p)              | 50%         |
| $q = (1-p)$  | 50%         |
| Required Sample Size if Total Population was unknown | <b>24</b>   |
| Required Sample Size in final cleaned data           | <b>15</b>   |
| Expected Rejected Data Rate                          | 10%         |
| <b>Sample Size</b>                                   | <b>16</b>   |
| Design Effect  | 1           |
| <b>Final Sample Size</b>                             | <b>16</b>   |

## MT-01: GENERAL PROFILE

### A. Introductory Information

|   |   |
|---|---|
| 1   | Date:   |
| 2   | Water Channel ID or #:  |
| 3   | Name of the enumerator?   |
| 4   | Province?   |
| 5   | District?   |
| 6   | Tehsil?   |
| 7   | Union Council?  |
| 8   | Village?  |
| 9   | Location of the farm OR Farm located in the?  |
| i   | Canal area  |
| ii  | Non-Canal area  |
| 10  | Type of intervention made under OFWM?   |
| i   | Water channel   |
| ii  | Water Storage Tank  |
| If in Canal Area and Water Channel Constructed, then Continue; Otherwise go to Q.# 30 |   |
| 11  | If in Canal Area: Name of the Canal?  |
| i   | Name of the Canal Branch?   |
| ii  | Name of the Distributary?   |
| iii   | Name of the Minor?  |
| 12  | Location on the branch/distributary/minor?  |
| i   | Head  |
| ii  | Middle  |
| iii   | Tail  |
| 13  | Is the Water Channel Lining made at your farm by OFWM Depart.?                      |
| i   | Yes   |
| ii  | NO  |
| 14  | If YES, when you have applied for it (Application date)? DD/MM/YYYY                 |
| 15  | If YES, when its survey and design were prepared (Feasibility date)? DD/MM/YYYY     |
| 16  | If YES, when it was approved (Approval date)? DD/MM/YYYY                            |
| 17  | If YES, when its technical sanction was issued (Sanction date)? DD/MM/YYYY          |
| 18  | If YES, when its actual construction began (Construction-Begin)? DD/MM/YYYY         |
| 19  | If YES, when its construction completed (Construction-End)? DD/MM/YYYY              |
| 20  | If YES, when its Final Completion Report Issued (FCR-Report)? DD/MM/YYYY            |
| 21  | If FCR Issued, when the subsidy money paid to the farmer (Subsidy-Paid)? DD/MM/YYYY |
| 22  | How much time taken to pay the subsidy after FCR?                                   |
| i   | Within reasonable time  |
| ii  | Required a lot of time  |
| 23  | Days taken (#)  |
| 24  | How you assess survey and design process?   |
| i   | Fast track  |
| ii  | Lengthy   |
| 25  | Indifferent/Could not explain clearly   |
| 26  | If lengthy, how much period (days) it has taken?                                    |
| 27  | Behavior of OFWM staff?   |
| i   | Friendly / Supportive   |
| ii  | Professional & interactive  |
| iii   | Indifferent   |
| 28  | Does any body taken / demanded any money from you at any stage?                     |
| i   | Yes   |
| ii  | NO  |
| 29  | If YES, how much money you gave (Rs.)?  |
| Water Storage Tank (WST) Construction   |   |
| 30  | Is the Water Storage Tank made at your farm by OFWM Department?                     |
| i   | Yes   |
| ii  | NO  |
| 31  | If YES, when you have applied for it (Application date)? DD/MM/YYYY                 |
| 32  | If YES, when its survey and design were prepared (Feasibility date)? DD/MM/YYYY     |
| 33  | If YES, when it was approved (Approval date)? DD/MM/YYYY                            |

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|    |  |
|----|--|
| 34 | If YES, when its <b>technical sanction</b> was issued (Sanction date)? DD/MM/YYYY            |
| 35 | If YES, when its actual construction began ( <b>Construction-Begin</b> )? DD/MM/YYYY         |
| 36 | If YES, when its construction completed ( <b>Construction-End</b> )? DD/MM/YYYY              |
| 37 | If YES, when its Final Completion Report Issued ( <b>FCR-Report</b> )? DD/MM/YYYY            |
| 38 | If FCR Issued, when the subsidy money paid to the farmer ( <b>Subsidy-Paid</b> )? DD/MM/YYYY |
| 39 | How much time taken to pay the subsidy after FCR?  |
|    | i Within reasonable time   |
|    | ii Required a lot of time  |
| 40 | Days taken (#)   |
| 41 | How you assess survey and design process?  |
|    | i Fast track   |
|    | ii Lengthy   |
|    | iii Indifferent/Could not explain clearly  |
| 42 | If lengthy, how much period (days) it has taken?   |
| 43 | Behavior of OFWM staff?  |
|    | i Friendly / Supportive  |
|    | ii Professional & interactive  |
|    | iii Indifferent  |
| 44 | Does any body taken / demanded any money from you at any stage?                              |
|    | i Yes  |
|    | ii NO  |
| 45 | If YES, how much money you gave (Rs.)?   |

### B. Farmer's Introduction

|    |  |
|----|--|
| 46 | Name of the Farmer?                    |
| 47 | Father Name?                           |
| 48 | Cellphone Numbers?                     |
| 49 | CNIC?                                  |
| 50 | Gender?                                |
|    | i Male                                 |
|    | ii Female                              |
| 51 | Age of the Farmer (Years)?             |
| 52 | Education (Years of formal Schooling)? |
| 53 | Farming Experience (years)?            |

### C. Farm Profile

| 1. LAND HOLDING AND ITS COMPOSITION BY OWNERSHIP |  |
|--|--|
| 54   | Area Owned (Acres) ( <b>Before Intervention</b> )?                                     |
| 54   | Area Owned (Acres) ( <b>After Intervention</b> )?                                      |
| 55   | Area rented in (Acres) ( <b>Before Intervention</b> )?                                 |
| 55   | Area rented in (Acres) ( <b>After Intervention</b> )?                                  |
| 56   | Annual rent paid (Rs/acre) ( <b>Before Intervention</b> )?                             |
| 56   | Annual rent paid (Rs/acre) ( <b>After Intervention</b> )?                              |
| 57   | Area rented out (Acres) ( <b>Before Intervention</b> )?                                |
| 57   | Area rented out (Acres) ( <b>After Intervention</b> )?                                 |
| 58   | Annual rented obtained (Rs/acre) ( <b>Before Intervention</b> )?                       |
| 58   | Annual rented obtained (Rs/acre) ( <b>After Intervention</b> )?                        |
| 59   | Shared-in land (acres) ( <b>Before Intervention</b> )?                                 |
| 59   | Shared-in land (acres) ( <b>After Intervention</b> )?                                  |
| 60   | Value of output paid in 2020-21 (Rs.) ( <b>Before Intervention</b> )?                  |
| 60   | Value of output paid (Rs.) ( <b>After Intervention</b> )?                              |
| 61   | Shared-out land (acres) ( <b>Before Intervention</b> )?                                |
| 61   | Shared-out land (acres) ( <b>After Intervention</b> )?                                 |
| 62   | Value of output obtained in 2020-21 (Rs.) ( <b>Before Intervention</b> )?              |
| 62   | Value of output obtained (Rs.) ( <b>After Intervention</b> )?                          |
| 63   | Total operational land holding (Acres) ( <b>Before Intervention</b> )?                 |
| 63   | Total operational land holding (Acres) ( <b>After Intervention</b> )?                  |
| 64   | Total number of parcels of the operational holding (#) ( <b>Before Intervention</b> )? |
| 64   | Total number of parcels of the operational holding (#) ( <b>After Intervention</b> )?  |
| 65   | Tenurial status ( <b>Before Intervention</b> )?  |
|  | i Owner  |

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|           |  |
|-----------|--|
|           | ii Owner cum Tenant  |
|           | iii Tenant   |
| <b>65</b> | <b>Tenurial status (After Intervention)?</b>   |
|           | i Owner  |
|           | ii Owner cum Tenant  |
|           | iii Tenant   |
|           | <b>2. LAND AND ITS COMPOSITION BY USAGE &amp; SUITABILITY</b>  |
| <b>66</b> | <b>Total area cultivated (Acres) (Before Intervention)?</b>  |
| <b>66</b> | <b>Total area currently cultivated (Acres) (After Intervention)?</b>   |
| <b>67</b> | <b>Total area not cultivable due to permanent structures (ponds/wells/sheds/stores/paths) (Acres) (Before Intervention)?</b> |
| <b>67</b> | <b>Total area not cultivable due to permanent structures (ponds/wells/sheds/stores/paths) (Acres) (After Intervention)?</b>  |
| <b>68</b> | <b>Total culturable wastelands (can be cultivated, but after some improvements) (Acres) (Before Intervention)?</b>           |
| <b>68</b> | <b>Total culturable wastelands (can be cultivated, but after some improvements) (Acres) (After Intervention)?</b>            |
| <b>69</b> | <b>Total area left fellow (Acres) (Before Intervention)?</b>   |
| <b>69</b> | <b>Total area left fellow (Acres) (After Intervention)?</b>  |
| <b>70</b> | <b>Total area planted in both rabi and kharif seasons (Acres) (Before Intervention)?</b>                                     |
| <b>70</b> | <b>Total area planted in both rabi and kharif seasons (Acres) (After Intervention)?</b>                                      |
| <b>71</b> | <b>Land type of major parcel?</b>  |
|           | i Sandy/Raitli   |
|           | ii Loam/Mera   |
|           | iii Sandy loam/Halki Mera  |
|           | iv Clayee/Chikni or pacci  |
|           | v Clay loam/Heavy Mera   |
|           | vi Other   |
| <b>72</b> | <b>Any problem of major parcel (Before Intervention)?</b>  |
|           | i Waterlogging   |
|           | ii Salinity  |
| <b>72</b> | <b>Any problem of major parcel (After Intervention)?</b>   |
|           | i Waterlogging   |
|           | ii Salinity  |
|           | <b>If Waterlogging, then Continue; Otherwise go to Q.# 74</b>  |
| <b>73</b> | <b>If Waterlogged, its extent (Before Intervention)?</b>   |
|           | i Low, became very wet in rainy season   |
|           | ii Medium, frequently wet  |
|           | iii High, all times wet  |
| <b>73</b> | <b>If Waterlogged, its extent (After Intervention)?</b>  |
|           | i Low, became very wet in rainy season   |
|           | ii Medium, frequently wet  |
|           | iii High, all times wet  |
| <b>74</b> | <b>Area suffered from water logging (Acres)?</b>   |
|           | <b>Salinity Prevalence</b>   |
| <b>75</b> | <b>If Saline, its current salinity extent (Before Intervention)?</b>   |
|           | i Low  |
|           | ii Medium  |
|           | iii High   |
| <b>76</b> | <b>If Saline, its salinity extent (After Intervention)?</b>  |
|           | i Low  |
|           | ii Medium  |
|           | iii High   |
| <b>77</b> | <b>Area suffered from salinity (Acres)?</b>  |
| <b>78</b> | <b>Drainage status of major parcel (Before Intervention)?</b>  |
|           | i Well drained   |
|           | ii Poorly drained  |
| <b>79</b> | <b>Drainage status of major parcel (After Intervention)?</b>   |
|           | i Well drained   |

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|  |  |
|--|--|
|  | ii Poorly drained  |
| 80                                     | Water table at present (Feet) ( <b>Before Intervention</b> )?      |
| 81                                     | Water table (Feet) ( <b>After Intervention</b> )?                  |
| <b>3. Farming System / Environment</b> |  |
|  | Farming System / Environment                                       |
| 82                                     | Your farming system/environment ( <b>Before Intervention</b> )?    |
| i                                      | Rainfed system   |
| ii                                     | Irrigated system   |
| iii                                    | Mix  |
| 83                                     | Your farming system/environment ( <b>After Intervention</b> )?     |
| i                                      | Rainfed system   |
| ii                                     | Irrigated system   |
| iii                                    | Mix  |
|  | If Irrigated, then Continue; Otherwise go to Q.# 84                |
| 84                                     | If Irrigated or Mix, type of water source?                         |
| i                                      | Perennial canal  |
| ii                                     | Seasonal Canal   |
| iii                                    | Tail Water Recovery Ditch (TWRD)                                   |
| iv                                     | Tube well  |
| v                                      | Dug well   |
| vi                                     | Lift Pump  |
| vii                                    | Stream   |
| viii                                   | Spring   |
| ix                                     | Nullah or Nallah   |
| x                                      | Rodh Kohi  |
| xi                                     | Other (e.g., Karez, etc.)  |
| 85                                     | If Irrigated/Mixed, then category of water channel to be improved? |
| i                                      | Regular (New)  |
| ii                                     | 20 Years Old (Rehabilitation)                                      |
| iii                                    | Additional Lining  |
| iv                                     | Other  |
| 86                                     | If Irrigated/Mixed, the type of lining of the Water Channel?       |
| i                                      | Rectangular/ bricks  |
| ii                                     | Pre cast parabolic segment (PCPS)                                  |
| iii                                    | Steel Pipe   |
| iv                                     | PVC 3"   |
| v                                      | PVC 4"   |
| vi                                     | PVC 6"   |
| vii                                    | RCC pipe   |
| viii                                   | PCC  |
| ix                                     | HDPE (High Density Poly ethylene type of plastic used)             |
| x                                      | Stone masonry  |
| xi                                     | Geomembrane  |
| xii                                    | Mix (Any combination)  |
| 87                                     | If Irrigated or Mix, irrigation source (Multiple choices allowed)? |
| i                                      | Canal  |
| ii                                     | Tail Water Recovery Ditch (TWRD)                                   |
| iii                                    | Tube well  |

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|  |   |                      |
|--|---|----------------------|
|  | iv  | Lift pump            |
|  | v   | Dug well             |
|  | vi  | Stream               |
|  | vii   | Spring               |
|  | viii  | Nullah or Nallah     |
|  | ix  | Rodh Kohi            |
|  | x   | Other                |
| 88   | <b>If tube well/dug well water used, then quality of underground water?</b>   |                      |
|  | i   | Fit for irrigation   |
|  | ii  | Unfit for irrigation |
| <b>D. Water Channel Water Usages and its Maintenance</b> |   |                      |
| 89   | <b>Any practice of washing clothes on the banks of water channels (Before Intervention)?</b>                        |                      |
|  | i   | Yes                  |
|  | ii  | NO                   |
| 89   | <b>Any practice of washing clothes on the banks of water channels (After Intervention)?</b>                         |                      |
|  | i   | Yes                  |
|  | ii  | NO                   |
| 89   | <b>If YES, then what is the status of their number (After Intervention)?</b>  |                      |
|  | i   | Increased            |
|  | ii  | Decreased            |
|  | iii   | No change            |
|  | iv  | Do not know          |
| 90   | <b>Any practice of bathing animals on the banks of water channels (Before Intervention)?</b>                        |                      |
|  | i   | Yes                  |
|  | ii  | NO                   |
| 90   | <b>Any practice of bathing animals on the banks of water channels (After Intervention)?</b>                         |                      |
|  | i   | Yes                  |
|  | ii  | NO                   |
| 90   | <b>If YES, then what is the status of their number (After Intervention)?</b>  |                      |
|  | i   | Increased            |
|  | ii  | Decreased            |
|  | iii   | No change            |
|  | iv  | Do not know          |
| 91   | <b>Any practice of bringing animals at water channels for drinking water purpose (Before Intervention)?</b>         |                      |
|  | i   | Yes                  |
|  | ii  | NO                   |
| 91   | <b>Any practice of bringing animals at water channels for drinking water purpose (After Intervention)?</b>          |                      |
|  | i   | Yes                  |
|  | ii  | NO                   |
| 91   | <b>If YES, then what is the status of their number (After Intervention)?</b>  |                      |
|  | i   | Increased            |
|  | ii  | Decreased            |
|  | iii   | No change            |
|  | iv  | Do not know          |
| 92   | <b>Any provision of culverts on the water channels for crossing of carts, vehicles, etc. (Before Intervention)?</b> |                      |
|  | i   | Yes                  |

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|  |     |   |
|--|-----|---|
|  | ii  | NO  |
|  | 92  | Any provision of culverts on the water channels for crossing of carts, vehicles, etc. (After Intervention)? |
|  | i   | Yes   |
|  | ii  | NO  |
|  | 92  | If YES, then what is the status of their number (After Intervention)?                                       |
|  | i   | Increased   |
|  | ii  | Decreased   |
|  | iii | No change   |
|  | iv  | Do not know   |
|  | 93  | Was there any theft of water (Before Intervention)?   |
|  | i   | Yes   |
|  | ii  | NO  |
|  | 93  | Is there any theft of water now (After Intervention)?   |
|  | i   | Yes   |
|  | ii  | NO  |
|  | 93  | If YES, then what is the status their number (After Intervention)?  |
|  | i   | Increased   |
|  | ii  | Decreased   |
|  | iii | No change   |
|  | iv  | Do not know   |
|  | 93  | Any change in the flow of water noticed After Intervention?   |
|  | i   | Increased   |
|  | ii  | Decreased   |
|  | iii | No change   |
|  | iv  | Do not know   |
|  | 94  | If INCREASED, the how much?   |
|  | i   | 5%  |
|  | ii  | 10%   |
|  | iii | 15%   |
|  | iv  | 20%   |
|  | v   | 25%   |
|  | 95  | If DECREASED, the how much?   |
|  | i   | 5%  |
|  | ii  | 10%   |
|  | iii | 15%   |
|  | iv  | 20%   |
|  | v   | 25%   |
|  | 96  | How the water channel cleanliness was maintained Before Intervention?                                       |
|  | i   | Regularly cleaning weeds by the farmers located on it   |
|  | ii  | Not regularly cleaned, only need basis  |
|  | iii | Other   |
|  | 97  | If Cleaned on need basis, cleanliness status (Before Intervention)?   |
|  | i   | No vegetation/weeds on the days of irrigation   |
|  | ii  | No rubbish/garbage throwing in water channel  |
|  | iii | Mix   |
|  | iv  | Other   |
|  | 97  | Level of cleanliness of the water channel (After Intervention)?   |

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|                                    |   |   |
|------------------------------------|---|---|
|                                    | i   | No vegetation/weeds on the days of irrigation |
|                                    | ii  | No rubbish/garbage throwing in water channel  |
|                                    | iii   | Mix   |
|                                    | iv  | Other   |
| <b>E. Water Storage Tank (WST)</b> |   |   |
| <b>98</b>                          | <b>Have you made any any arrangements like Water Storage Tank (WST)?</b>      |   |
|                                    | i   | Yes   |
|                                    | ii  | NO  |
| <b>99</b>                          | <b>If YES, When?</b>  |   |
|                                    | i   | Before OFWM Intervention                      |
|                                    | ii  | With the Assistance of OFWM                   |
| <b>100</b>                         | <b>If with the assistance of ONWM, then its construction shape?</b>           |   |
|                                    | i   | Trapezoidal                                   |
|                                    | ii  | Rectangular                                   |
|                                    | iii   | Brick/Masonry                                 |
|                                    | iv  | Geomembrane                                   |
|                                    | v   | PCC   |
|                                    | vi  | Any other, specify                            |
| <b>101</b>                         | <b>If Storage Tank made by OFWM, source of water (Before Intervention)?</b>   |   |
|                                    | i   | Canal   |
|                                    | ii  | Tail Water Recovery Ditch (TWRD)              |
|                                    | iii   | Tube well                                     |
|                                    | iv  | Lift pump                                     |
|                                    | v   | Dug well                                      |
|                                    | vi  | Stream  |
|                                    | vii   | Spring  |
|                                    | viii  | Nullah or Nallah                              |
|                                    | ix  | Rodh Kohi                                     |
|                                    | x   | Other, if any                                 |
| <b>101</b>                         | <b>If Water Storage Tank made, then source of water (After Intervention)?</b> |   |
|                                    | i   | Canal   |
|                                    | ii  | Tail Water Recovery Ditch (TWRD)              |
|                                    | iii   | Tube well                                     |
|                                    | iv  | Lift pump                                     |
|                                    | v   | Dug well                                      |
|                                    | vi  | Stream  |
|                                    | vii   | Spring  |
|                                    | viii  | Nullah or Nallah                              |
|                                    | ix  | Rodh Kohi                                     |
|                                    | x   | Other, if any                                 |
| <b>102</b>                         | <b>If Storage Tank made, then water filling method (Before Intervention)?</b> |   |
|                                    | i   | Gravitational flow down                       |
|                                    | ii  | Pumped up by tube well/water pumps            |
|                                    | iii   | Any other                                     |
| <b>102</b>                         | <b>If Storage tank, then water filling method (After Intervention)?</b>       |   |
|                                    | i   | Gravitational flow down                       |
|                                    | ii  | Pumped up by tube well/water pumps            |

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|     |  |  |
|-----|--|--|
|     | iii  | Any other                                    |
| 103 | <b>If Pumped, type of pipes used for taking water to the tank (Before Intervention)?</b>               |  |
|     | i  | Steel Pipes                                  |
|     | ii   | PVC Plastic Pipes                            |
|     | iii  | Concrete Pipes                               |
|     | iv   | High density polyethylene (HDPE) water pipes |
|     | v  | Mix  |
|     | vi   | Any other                                    |
| 103 | <b>Type of pipe used for taking water to the tank (After Intervention)?</b>                            |  |
|     | i  | Steel Pipes                                  |
|     | ii   | PVC Plastic Pipes                            |
|     | iii  | Concrete Pipes                               |
|     | iv   | High density polyethylene (HDPE) water pipes |
|     | v  | Mix  |
|     | vi   | Any other                                    |
| 104 | <b>If Pumped, then status of tube well pump (Before Intervention)?</b>                                 |  |
|     | i  | Owned  |
|     | ii   | Shared                                       |
|     | iii  | Purchased                                    |
| 104 | <b>If Pumped, then status of tube well pump (After Intervention)?</b>                                  |  |
|     | i  | Owned  |
|     | ii   | Shared                                       |
|     | iii  | Purchased                                    |
|     | If Shared in Q.#.90, then go to Q.#.93; & If Purchased in Q.#.90, then go to Q.#95; Otherwise Continue |  |
| 105 | <b>If OWNED, then average pumping cost per hour (Before Intervention)?</b>                             |  |
| 105 | <b>If OWNED, then average pumping cost per hour (After Intervention)?</b>                              |  |
| 106 | <b>If OWNED, average time taken per irrigation per acre (hours) (Before Intervention)?</b>             |  |
| 106 | <b>If OWNED, average time taken per irrigation per acre (hours) (After Intervention)?</b>              |  |
| 107 | <b>If SHARED, then share percentage in pumping cost (Before Intervention)?</b>                         |  |
| 107 | <b>If SHARED, then average pumping cost per hour (After Intervention)?</b>                             |  |
| 108 | <b>If SHARED, average time taken per irrigation per acre (hours) (Before Intervention)?</b>            |  |
| 108 | <b>If SHARED, average time taken per irrigation per acre (hours) (After Intervention)?</b>             |  |
| 109 | <b>If PURCHASED, then average pumping cost per hour (Before Intervention)?</b>                         |  |
| 109 | <b>If PURCHASED, then average pumping cost per hour (After Intervention)?</b>                          |  |
| 110 | <b>If PURCHASED, average time taken per irrigation per acre (hours) (Before Intervention)?</b>         |  |
| 110 | <b>If PURCHASED, average time taken per irrigation per acre (hours) (After Intervention)?</b>          |  |
| 111 | <b>Were any trees cut down from the place of Water Storage Tank?</b>                                   |  |
|     | i  | Yes  |
|     | ii   | No   |
|     | iii  | No tree present (or only shrubs)             |
| 112 | <b>If YES, then how many trees were cut down (#)?</b>  |  |
| 113 | <b>Types of trees cut down?</b>  |  |
|     | i  | Timber/Furniture purpose wood                |
|     | ii   | Firewood/Fuel purpose                        |
|     | iii  | Shady trees                                  |
|     | iv   | Both/Mix                                     |
|     | v  | Any Other, specify                           |

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|  |            |  |
|--|------------|--|
|  | <b>114</b> | <b>How many saplings were planted against each tree cut down (#)?</b>            |
|  | <b>115</b> | <b>Types of trees planted?</b>   |
|  | i          | Timber/Furniture purpose wood (#)  |
|  | ii         | Firewood/Fuel purpose (#)  |
|  | iii        | Shady trees (#)  |
|  | iv         | Both/Mix (#)   |
|  | v          | Any Other, specify (#)   |
|  | <b>116</b> | <b>Number of survived trees?</b>   |
|  |            | <b>Types of trees survived?</b>  |
|  | i          | Timber/Furniture purpose wood (#)  |
|  | ii         | Firewood/Fuel purpose (#)  |
|  | iii        | Shady trees (#)  |
|  | iv         | Both/Mix (#)   |
|  | v          | Any Other, specify (#)   |
|  | <b>117</b> | <b>Were ANY arrangements made to protect newly planted saplings?</b>             |
|  | i          | Yes  |
|  | ii         | No   |
|  | <b>118</b> | <b>If YES, types of protection arrangements made?</b>                            |
|  | i          | Covered with thorny materials  |
|  | ii         | A ring of bricks made around the trees   |
|  | iii        | Both   |
|  | iv         | Other, if any  |
|  | <b>119</b> | <b>Prior to the construction of WST, was the soil properly compacted?</b>        |
|  | i          | Yes  |
|  | ii         | No   |
|  | iii        | Cannot say with certainty as I was not present                                   |
|  | iv         | Any Other, specify   |
|  | <b>120</b> | <b>Was the quality of the material used in construction was satisfactory?</b>    |
|  | i          | Yes  |
|  | ii         | No   |
|  | iii        | Cannot say with certainty as I was not present                                   |
|  | iv         | Any Other, specify   |
|  | <b>121</b> | <b>If Not Satisfactory, deficiency types noticed &amp; in what perspectives?</b> |
|  | i          | Improper compaction before plastering the floor                                  |
|  | ii         | Improper cement-sand-bajri (small stones) ratio used in the floor                |
|  | iii        | Improper cement-sand ratio used during plastering                                |
|  | iv         | Average quality bricks were used in the side walls                               |
|  | v          | Low skilled masonary work  |
|  | vi         | Any other-1, specify   |
|  | <b>122</b> | <b>Any difficulty in maintaining the WST after construction?</b>                 |
|  | i          | Yes  |
|  | ii         | No   |
|  | <b>123</b> | <b>If Difficult to maintain WST, then how?</b>                                   |
|  | i          | Broken at many places to be repaired frequently                                  |
|  | ii         | Cracks in the plaster at many places need to be repaired                         |
|  | iii        | Security/theft concerns as being away from home                                  |
|  | iv         | Green algae/fungus development at the bottom of the tank                         |

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|                                     |   |   |
|-------------------------------------|---|---|
|                                     | v   | Any Other, specify                                  |
| 124                                 | <b>Cropping intensity has increased on your farm after WST construction?</b>  |   |
|                                     | i   | Yes   |
|                                     | ii  | No  |
| 125                                 | If Yes, % of total farm area irrigated <b>before construction</b> of WST?   |   |
| 126                                 | If Yes, % of total farm area irrigated <b>after construction</b> of WST?  |   |
| 127                                 | If Yes, % farm area planted twice a year (rabi & kharif) after WST construction?  |   |
| 128                                 | <b>Do the crop production or yields increased after the WST construction?</b>   |   |
|                                     | i   | Yes   |
|                                     | ii  | No  |
| 129                                 | If YES, the approximate percentage of increase in crop production?  |   |
| 130                                 | <b>Do orchards production has increased after WST construction?</b>   |   |
|                                     | i   | Yes   |
|                                     | ii  | No  |
| 131                                 | If YES, the approximate percentage of increase in fruit production?   |   |
| <b>F. Labor Employment Patterns</b> |   |   |
| 132                                 | <b>Have you hired any labor for farming (Before Intervention)?</b>  |   |
|                                     | i   | Yes   |
|                                     | ii  | NO  |
| 132                                 | <b>Have you hired any labor for farming (After Intervention)?</b>   |   |
|                                     | i   | Yes   |
|                                     | ii  | NO  |
| 133                                 | <b>If YES, then its type (Before Intervention)?</b>   |   |
|                                     | i   | Permanent Hired Labour (PHL)                        |
|                                     | ii  | Casual Hired Labor (CHL)                            |
|                                     | iii   | Family labor on mutual exchange basis with other HH |
| 133                                 | <b>If YES, then its type (After Intervention)?</b>  |   |
|                                     | i   | Permanent Hired Labour (PHL)                        |
|                                     | ii  | Casual Hired Labor (CHL)                            |
|                                     | iii   | Family labor on mutual exchange basis with other HH |
| 134                                 | <b>If PHL, then how many labourers (#) (Before Intervention)?</b>   |   |
| 134                                 | <b>If PHL, then how many labourers (#) (After Rehabilitation)?</b>  |   |
| 135                                 | If PHL, average cost per month in monetary terms (cash + food + farm output) (Rs./month/person) ( <b>Before Intervention</b> )? |   |
| 135                                 | If PHL, average cost per month in monetary terms (cash + commodity form) (Rs./month/person) ( <b>After Rehabilitation</b> )?    |   |
| 136                                 | <b>If CHL, then daily wage rates paid (cash + food + food + farm output) (Rs.) (<b>Before Intervention</b>)?</b>                |   |
|                                     | i   | Normal period                                       |
|                                     | ii  | Peak season (sowing & harvesting periods)           |
| 136                                 | <b>If CHL, then daily wage rates paid (cash + food + farm output) (Rs.) (<b>After Rehabilitation</b>)?</b>                      |   |
|                                     | i   | Normal period                                       |
|                                     | ii  | Peak season (sowing & harvesting periods)           |
| 137                                 | <b>Livestock currently present at your farm (Before Intervention)?</b>  |   |
|                                     | i   | Adult buffaloes (#)                                 |
|                                     | ii  | Buffalo Young Stock (#)                             |
|                                     | iii   | Adult cows/cattle (#)                               |
|                                     | iv  | Cow/Cattle Young Stock (#)                          |
|                                     | v   | Sheep (#)   |
|                                     | vi  | Goats (#)   |
|                                     | vii   | Chicken birds (#)                                   |
|                                     | viii  | Ducks (#)   |
|                                     | ix  | Donkeys/Mules (for carriage, pull cart purposes)    |

## MT-01: GENERAL PROFILE

|            |  |
|------------|--|
|            | <input checked="" type="checkbox"/> Dogs (for watch/ward of the farm or house) |
|            | <input type="checkbox"/> Any Other, Specify                                    |
| <b>138</b> | <b>Livestock presence at your farm (After Intervention)?</b>                   |
| i          | Adult buffaloes (#)  |
| ii         | Buffalo Young Stock (#)  |
| iii        | Adult cows/cattle (#)  |
| iv         | Cow/Cattle Young Stock (#)   |
| v          | Sheep (#)  |
| vi         | Goats (#)  |
| vii        | Chicken birds (#)  |
| viii       | Ducks (#)  |
| ix         | Donkeys/Mules (for carriage, pull cart purposes)                               |
| x          | Dogs (for watch/ward of the farm or house)                                     |
| xi         | Any Other, Specify   |

### G. Family Size and Gender Role

|  |  |
|--|--|
| <b>139</b>                                   | <b>Family Size (#)?</b>  |
| <b>140</b>                                   | <b>Adult males (#)?</b>  |
| <b>141</b>                                   | <b>Adult females (#)?</b>  |
| <b>142</b>                                   | <b>Children (#)?</b>   |
| <b>1. FEMALE HOUSEHOLD HEAD CONSULTATION</b> |  |
| <b>143</b>                                   | <b>Does Female Household Head Consulted in matters like Before Intervention?</b> |
| i  | Household related matters  |
| ii   | Crops related matters  |
| iii  | Livestock related matters  |
| iv   | Both household and farming related matters                                       |
| v  | Other, if any  |
| <b>143</b>                                   | <b>Does Female Household Head Consulted in (After Intervention)?</b>             |
| i  | Household related matters  |
| ii   | Crops related matters  |
| iii  | Livestock related matters  |
| iv   | Both household and farming related matters                                       |
| v  | Other, if any  |

### D. RAINFALL PATTERNS AND CLIMATE CHANGE

|            |   |   |
|------------|---|---|
|            |   | <b>1. RAINFALL OCCURENCE AND WATER AVAILABILITY</b> |
| <b>144</b> | <b>Rainfall Occurrence Patterns in <i>Rabi</i> Season?</b>  |   |
| i          | Insufficient rainfall at planting time causing low yields   |   |
| ii         | Insufficient rainfall at critical stages of crop growth (flowering, grain formation, grain maturity, etc.) resulting in low yields and/OR crop failures |   |
| iii        | Heavy rainfalls at planting time making late plantation of rabi crops   |   |
| iv         | Heavy rainfall at critical stages of crop growth (flowering, grain formation, grain maturity, etc.) resulting in low yields and/OR crop failures        |   |
| <b>145</b> | <b>Rainfall Occurrence Patterns in <i>Kharif</i> Season?</b>  |   |
| i          | Insufficient rainfall at planting time causing low yields   |   |
| ii         | Insufficient rainfall at critical stages of crop growth (flowering, grain formation, grain maturity, etc.) resulting in low yields and/OR crop failures |   |
| iii        | Heavy rainfalls at planting time making late plantation of rabi crops   |   |
| iv         | Heavy rainfall at critical stages of crop growth (flowering, grain formation, grain maturity, etc.) resulting in low yields and/OR crop failures        |   |
| <b>146</b> | <b>Extent of water shortage faced in Rabi Season Before Intervention?</b>   |   |
| i          | Low   |   |
| ii         | Medium  |   |
| iii        | High  |   |
| <b>146</b> | <b>Extent of water shortage faced in Rabi Season (After Intervention)?</b>  |   |
| i          | Low   |   |
| ii         | Medium  |   |
| iii        | High  |   |
| <b>147</b> | <b>Extent of water shortage faced in Kharif Season Before Intervention?</b>   |   |
| i          | Low   |   |
| ii         | Medium  |   |

## MT-01: GENERAL PROFILE

|  |  |
|--|--|
|  | iii High   |
| <b>147</b>   | <b>Extent of water shortage faced in Kharif Season (After Intervention)?</b>                               |
| i  | Low  |
| ii   | Medium   |
| iii  | High   |
|  | <b>2. CLIMATE CHANGE</b>   |
| <b>148</b>   | <b>How rainfall pattern is shifting in <i>rabi</i> season due to climate change?</b>                       |
| i  | Towards early plantation   |
| ii   | Towards late plantation  |
| iii  | Towards early harvesting   |
| iv   | Towards late harvesting  |
| v  | Not clear & vary every year  |
| vi   | Any other  |
| <b>149</b>   | <b>How rainfall pattern is shifting in <i>Kharif</i> season due to climate change Before Intervention?</b> |
| i  | Towards early plantation   |
| ii   | Towards late plantation  |
| iii  | Towards early harvesting   |
| iv   | Towards late harvesting  |
| v  | Not clear & vary every year  |
| vi   | Any other  |
| <b>150</b>   | <b>In which season, more water stress is felt relatively more Before Intervention?</b>                     |
| i  | Rabi   |
| ii   | Kharif   |
| iii  | Both   |
| <b>E. WATER USERS' ASSOCIATION (FORMATION &amp; WORKING)</b> |  |
| <b>151</b>   | <b>Does any Water Users Association Formed?</b>  |
| i  | Yes  |
| ii   | NO   |
| <b>152</b>   | <b>If YES, Is it functional/operational?</b>   |
| i  | Yes  |
| ii   | NO   |
| <b>153</b>   | <b>If NO, Any reason associated?</b>   |
| i  | Farm lands are located much apart  |
| ii   | Farmers Internal/social conflicts makes it difficult   |
| iii  | Any Other, Specify   |
| <b>154</b>   | <b>Total number of members in the Association (#)?</b>   |
| <b>155</b>   | <b>Position you holds in the Association?</b>  |
| i  | Chairman/Chair Person  |
| ii   | Vice Chairman / Vice Chair Person  |
| iii  | General Secretary  |
| iv   | Treasurer/Finance Secretary  |
| v  | Any other designation  |
| vi   | Ordinary Member  |
| vii  | Any other  |
| <b>156</b>   | <b>Is any FEMALE also the member of the Water Users' Association?</b>                                      |
| i  | Yes  |
| ii   | NO   |
| <b>157</b>   | <b>If YES, how many FEMALES (#)?</b>   |
| <b>158</b>   | <b>What positions in the Association held by females?</b>  |
| i  | Chairman / Chair Person  |
| ii   | Vice Chairman / Vice Chair Person  |
| iii  | General Secretary  |
| iv   | Treasurer/Finance Secretary  |
| v  | Any other designation  |
| vi   | Ordinary Member  |
| vii  | Any other  |
| <b>159</b>   | <b>Total number of <i>WUA's meetings</i> taken place during past one year (#)?</b>                         |
| <b>160</b>   | <b>Frequency of organizing WUA meetings?</b>   |

## MT-01: GENERAL PROFILE

|            |   |             |
|------------|---|-------------|
|            | i   | Weekly      |
|            | ii  | Fortnightly |
|            | iii   | Monthly     |
|            | iv  | Need basis  |
|            | v   | Other       |
| <b>161</b> | <b>Level of attendance in the meetings?</b>   |             |
|            | i   | Full        |
|            | ii  | Some absent |
|            | iii   | Mix         |
| <b>162</b> | <b>Total number of <b>farming related issues/problems/conflicts</b> resolved by the WUA in the past one year (#)?</b> |             |
| <b>163</b> | <b>Total number of other <b>issues</b> resolved by WUA in the past one year (#)?</b>                                  |             |
| <b>164</b> | <b>Financial Year?</b>  |             |
| <b>165</b> | <b>Supervisor Confirmation?</b>   |             |
| <b>166</b> | <b>Select Submission Status?</b>  |             |
| <b>167</b> | <b>Comments of interviewer - (if any) (optional)?</b>   |             |

**Note:**

This Monitoring Tool (MT) or Questionnaire is developed for all activities carried out under the project by the provincial on-farm water management departments for building the structures like water tanks and rehabilitation of water channels.

Since, at the time of conducting this baseline survey (Round-2), some official from the OFWM department shall accompany to visit to the farms on which some construction/rehabilitation work has been done, but his baseline information has not yet taken. Therefore, we have to gather information from that farmer for two scenarios: (1) current farming status (called as After Rehabilitation or AR); and (2) farming status before (called as Baseline). Hence, this Questionnaire is developed to capture both the scenarios.

To differentiate between the both in the questionnaire, the font colour for baseline information is black and for After Intervention it is blue.

So:

**BL = Baseline in black font**

**AR = After Rehabilitation in blue font**

## MT-02: CROPPING PATTERNS AND YIELD

### A. Cropping Patterns

|  |    | Total area planted (Acres)          |
|--|----|-------------------------------------|
|  | 1  | Wheat                               |
|  | 2  | Barley                              |
|  | 3  | Oats or Javi or Jontari             |
|  | 4  | Mustard/Canola                      |
|  | 5  | Sunflower                           |
|  | 6  | Sugarcane                           |
|  | 7  | Pulses (Gram)                       |
|  | 8  | Pulses (Lentil)                     |
|  | 9  | Other pulses                        |
|  | 10 | Berseem/Lucern                      |
|  | 11 | Rice                                |
|  | 12 | Maize                               |
|  | 13 | Sorghum                             |
|  | 14 | Millet                              |
|  | 15 | Sugarcane                           |
|  | 16 | Citrus (Kinnow, Malta, lemon, etc.) |
|  | 17 | Lemon/ Lime                         |
|  | 18 | Other rabi crop-1                   |
|  | 19 | Other rabi crop-2                   |
|  | 20 | Other Kharif crop-1                 |
|  | 21 | Other Kharif crop-2                 |

### B. Average Yield Per Acre

|  |    | Average Yield Obtained (40-kg Maunds/Acre) |
|--|----|--|
|  | 1  | Wheat                                      |
|  | 2  | Barley                                     |
|  | 3  | Oats or Javi or Jontari                    |
|  | 4  | Mustard/Canola                             |
|  | 5  | Sunflower                                  |
|  | 6  | Sugarcane                                  |
|  | 7  | Pulses (Gram)                              |
|  | 8  | Pulses (Lentil)                            |
|  | 9  | Other pulses                               |
|  | 10 | Berseem/Lucern                             |
|  | 11 | Rice                                       |
|  | 12 | Maize                                      |
|  | 13 | Sorghum                                    |
|  | 14 | Millet                                     |
|  | 15 | Sugarcane                                  |
|  | 16 | Citrus (Kinnow, Malta, lemon, etc.)        |
|  | 17 | Lemon/ Lime                                |
|  | 18 | Other rabi crop-1                          |
|  | 19 | Other rabi crop-2                          |
|  | 20 | Other Kharif crop-1                        |
|  | 21 | Other Kharif crop-2                        |

## MT-02: CROPPING PATTERNS AND YIELD

### C. Total Production

|  |    | Total Production Obtained (40-kg Maunds) |
|--|----|--|
|  | 1  | Wheat                                    |
|  | 2  | Barley                                   |
|  | 3  | Oats or Javi or Jontari                  |
|  | 4  | Mustard/Canola                           |
|  | 5  | Sunflower                                |
|  | 6  | Sugarcane                                |
|  | 7  | Pulses (Gram)                            |
|  | 8  | Pulses (Lentil)                          |
|  | 9  | Other pulses                             |
|  | 10 | Berseem/Lucern                           |
|  | 11 | Rice                                     |
|  | 12 | Maize                                    |
|  | 13 | Sorghum                                  |
|  | 14 | Millet                                   |
|  | 15 | Sugarcane                                |
|  | 16 | Citrus (Kinnow, Malta, lemon, etc.)      |
|  | 17 | Lemon/ Lime                              |
|  | 18 | Other rabi crop-1                        |
|  | 19 | Other rabi crop-2                        |
|  | 20 | Other Kharif crop-1                      |
|  | 21 | Other Kharif crop-2                      |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |   | Before                    | After                     | Before | After  |
|--|---|---------------------------|---------------------------|--------|--------|
|  |   | Price per Unit (Rs.)      | Price per Unit (Rs.)      | Wheat  | Wheat  |
|  |   | Quantities/Operations (#) | Quantities/Operations (#) |        |        |
| 1  | <b>Land preparation:</b>  |                           |                           |        |        |
|  | 1.1 Rotavator/disc plough   |                           |                           |        |        |
|  | 1.2 Ploughing   |                           |                           |        |        |
|  | 1.3 Ploughing & planking  |                           |                           |        |        |
|  | 1.4 Planking  |                           |                           |        |        |
|  | 1.5 Levelling (hrs)   |                           |                           |        |        |
| 2  | <b>Seed and sowing operations:</b>                                |                           |                           |        |        |
|  | 2.1 Seed used (kgs)   |                           |                           |        |        |
|  | 2.2. Tractor drilling   |                           |                           |        |        |
|  | 2.3 Labour for seed broadcasting (m.hrs)                          |                           |                           |        |        |
|  | 2.4 Ploughing in case of broadcasting                             |                           |                           |        |        |
|  | 2.5 Planking in case of broadcasting                              |                           |                           |        |        |
|  | 2.6 Nursery transplanting in rice only                            | xxxxxx                    |                           | xxxxxx | xxxxxx |
| 3  | <b>Bund making:</b>   |                           |                           |        |        |
|  | 3.1 Manual (m.hrs)  |                           |                           |        |        |
|  | 3.2 tractor (hrs)   |                           |                           |        |        |
| 4  | <b>Weedicides</b>   |                           |                           |        |        |
| 5  | <b>Irrigation: * (Nos)</b>  |                           |                           |        |        |
|  | 5.1 Canal   |                           |                           |        |        |
|  | 5.2 Private tube well   |                           |                           |        |        |
|  | 5.3 Mixed   |                           |                           |        |        |
| 6  | <b>Labour for irrigation and water course cleaning (man-days)</b> |                           |                           |        |        |
|  | 6.1 For irrigation  |                           |                           |        |        |
|  | 6.2 For water course cleaning                                     |                           |                           |        |        |
| 7  | <b>Farm Yard Manure (50 %)</b>                                    |                           |                           |        |        |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>                       |                           |                           |        |        |
|  | 8.1 DAP   |                           |                           |        |        |
|  | 8.2 Urea  |                           |                           |        |        |
|  | 8.3 SSP   |                           |                           |        |        |
|  | 8.4 NP (23-23)  |                           |                           |        |        |
|  | 8.5 CAN   |                           |                           |        |        |
|  | 8.6 SOP   |                           |                           |        |        |
|  | 8.7 Gypsum  |                           |                           |        |        |
|  | 8.8 Transport and application                                     |                           |                           |        |        |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>              |                           |                           |        |        |
|  | item 5(1) @15 % per annum for 6 months                            |                           |                           |        |        |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                           |                           |                           |        |        |
|  | Manual harvested  |                           |                           |        |        |
|  | Machine/Combine Harvested   |                           |                           |        |        |
| 11   | <b>Threshing:</b>   |                           |                           |        |        |
|  | 11.1 Threshing charges  |                           |                           |        |        |
|  | 11.2 M.days   |                           |                           |        |        |
| 12   | Land rent for 6 months  | 1                         |                           |        |        |
| 13   | Land tax (if any charged by Revenue Department)                   | 1                         |                           |        |        |
| 14   | Management charges for 6 months                                   |                           |                           |        |        |
| 15   | Total cost per acre   |                           |                           |        |        |
| 16   | Yield of main products (40-kg Maunds)                             |                           |                           |        |        |
| 18   | Value of straw or byproduct per acre                              |                           |                           |        |        |
| 19   | Cost of production at farm level: (Rs/40 kgs)                     |                           |                           |        |        |
| 20   | Marketing cost (Rs/40 kgs)  |                           |                           |        |        |
|  | 20.1 Including land rent  |                           |                           |        |        |
|  | 20.2 Excluding land rent  |                           |                           |        |        |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                    | After                     | Before                    | After                     |
|--|--|---------------------------|---------------------------|---------------------------|---------------------------|
|  |  | Barley                    | Barley                    | Barley                    | Barley                    |
|  |  | Quantities/Operations (#) | Quantities/Operations (#) | Quantities/Operations (#) | Quantities/Operations (#) |
| 1  | <b>Land preparation:</b>                               |                           |                           |                           |                           |
|  | 1.1 Rotavator/disc plough                              |                           |                           |                           |                           |
|  | 1.2 Ploughing  |                           |                           |                           |                           |
|  | 1.3 Ploughing & planking                               |                           |                           |                           |                           |
|  | 1.4 Planking   |                           |                           |                           |                           |
|  | 1.5 Levelling (hrs)                                    |                           |                           |                           |                           |
| 2  | <b>Seed and sowing operations:</b>                     |                           |                           |                           |                           |
|  | 2.1 Seed used (kgs)                                    |                           |                           |                           |                           |
|  | 2.2. Tractor drilling                                  |                           |                           |                           |                           |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                           |                           |                           |                           |
|  | 2.4 Ploughing in case of broadcasting                  |                           |                           |                           |                           |
|  | 2.5 Planking in case of broadcasting                   |                           |                           |                           |                           |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                    | xxxxxx                    | xxxxxx                    | xxxxxx                    |
| 3  | <b>Bund making:</b>                                    |                           |                           |                           |                           |
|  | 3.1 Manual (m.hrs)                                     |                           |                           |                           |                           |
|  | 3.2 tractor (hrs)                                      |                           |                           |                           |                           |
| 4  | <b>Weedicides</b>                                      |                           |                           |                           |                           |
| 5  | <b>Irrigation: * (Nos)</b>                             |                           |                           |                           |                           |
|  | 5.1 Canal  |                           |                           |                           |                           |
|  | 5.2 Private tube well                                  |                           |                           |                           |                           |
|  | 5.3 Mixed  |                           |                           |                           |                           |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                           |                           |                           |                           |
|  | 6.1 For irrigation                                     |                           |                           |                           |                           |
|  | 6.2 For water course cleaning                          |                           |                           |                           |                           |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                           |                           |                           |                           |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                           |                           |                           |                           |
|  | 8.1 DAP  |                           |                           |                           |                           |
|  | 8.2 Urea   |                           |                           |                           |                           |
|  | 8.3 SSP  |                           |                           |                           |                           |
|  | 8.4 NP (23-23)   |                           |                           |                           |                           |
|  | 8.5 CAN  |                           |                           |                           |                           |
|  | 8.6 SOP  |                           |                           |                           |                           |
|  | 8.7 Gypsum   |                           |                           |                           |                           |
|  | 8.8 Transport and application                          |                           |                           |                           |                           |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                           |                           |                           |                           |
|  | item 5(1) @15 % per annum for 6 months                 |                           |                           |                           |                           |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                           |                           |                           |                           |
|  | Manual harvested                                       |                           |                           |                           |                           |
|  | Machine/Combine Harvested                              |                           |                           |                           |                           |
| 11   | <b>Threshing:</b>                                      |                           |                           |                           |                           |
|  | 11.1 Threshing charges                                 |                           |                           |                           |                           |
|  | 11.2 M.days  |                           |                           |                           |                           |
| 12   | Land rent for 6 months                                 |                           |                           |                           |                           |
| 13   | Land tax (if any charged by Revenue Department)        |                           |                           |                           |                           |
| 14   | Management charges for 6 months                        |                           |                           |                           |                           |
| 15   | Total cost per acre                                    |                           |                           |                           |                           |
| 16   | Yield of main products (40-kg Maunds)                  |                           |                           |                           |                           |
| 18   | Value of straw or byproduct per acre                   |                           |                           |                           |                           |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                           |                           |                           |                           |
| 20   | Marketing cost (Rs/40 kgs)                             |                           |                           |                           |                           |
|  | 20.1 Including land rent                               |                           |                           |                           |                           |
|  | 20.2 Excluding land rent                               |                           |                           |                           |                           |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                    | After                     | Before                    | After                     |
|--|--|---------------------------|---------------------------|---------------------------|---------------------------|
|  |  | O-Rabi Fodder             | O-Rabi Fodder             | Rabi-Pulses               | Rabi-Pulses               |
|  |  | Quantities/Operations (#) | Quantities/Operations (#) | Quantities/Operations (#) | Quantities/Operations (#) |
| 1  | <b>Land preparation:</b>                               |                           |                           |                           |                           |
|  | 1.1 Rotavator/disc plough                              |                           |                           |                           |                           |
|  | 1.2 Ploughing  |                           |                           |                           |                           |
|  | 1.3 Ploughing & planking                               |                           |                           |                           |                           |
|  | 1.4 Planking   |                           |                           |                           |                           |
|  | 1.5 Levelling (hrs)                                    |                           |                           |                           |                           |
| 2  | <b>Seed and sowing operations:</b>                     |                           |                           |                           |                           |
|  | 2.1 Seed used (kgs)                                    |                           |                           |                           |                           |
|  | 2.2. Tractor drilling                                  |                           |                           |                           |                           |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                           |                           |                           |                           |
|  | 2.4 Ploughing in case of broadcasting                  |                           |                           |                           |                           |
|  | 2.5 Planking in case of broadcasting                   |                           |                           |                           |                           |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                    |                           | xxxxxx                    |                           |
| 3  | <b>Bund making:</b>                                    |                           |                           |                           |                           |
|  | 3.1 Manual (m.hrs)                                     |                           |                           |                           |                           |
|  | 3.2 tractor (hrs)                                      |                           |                           |                           |                           |
| 4  | <b>Weedicides</b>                                      |                           |                           |                           |                           |
| 5  | <b>Irrigation: * (Nos)</b>                             |                           |                           |                           |                           |
|  | 5.1 Canal  |                           |                           |                           |                           |
|  | 5.2 Private tube well                                  |                           |                           |                           |                           |
|  | 5.3 Mixed  |                           |                           |                           |                           |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                           |                           |                           |                           |
|  | 6.1 For irrigation                                     |                           |                           |                           |                           |
|  | 6.2 For water course cleaning                          |                           |                           |                           |                           |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                           |                           |                           |                           |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                           |                           |                           |                           |
|  | 8.1 DAP  |                           |                           |                           |                           |
|  | 8.2 Urea   |                           |                           |                           |                           |
|  | 8.3 SSP  |                           |                           |                           |                           |
|  | 8.4 NP (23-23)   |                           |                           |                           |                           |
|  | 8.5 CAN  |                           |                           |                           |                           |
|  | 8.6 SOP  |                           |                           |                           |                           |
|  | 8.7 Gypsum   |                           |                           |                           |                           |
|  | 8.8 Transport and application                          |                           |                           |                           |                           |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                           |                           |                           |                           |
|  | item 5(1) @15 % per annum for 6 months                 |                           |                           |                           |                           |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                           |                           |                           |                           |
|  | Manual harvested                                       |                           |                           |                           |                           |
|  | Machine/Combine Harvested                              |                           |                           |                           |                           |
| 11   | <b>Threshing:</b>                                      |                           |                           |                           |                           |
|  | 11.1 Threshing charges                                 |                           |                           |                           |                           |
|  | 11.2 M.days  |                           |                           |                           |                           |
| 12   | Land rent for 6 months                                 |                           |                           |                           |                           |
| 13   | Land tax (if any charged by Revenue Department)        |                           |                           |                           |                           |
| 14   | Management charges for 6 months                        |                           |                           |                           |                           |
| 15   | Total cost per acre                                    |                           |                           |                           |                           |
| 16   | Yield of main products (40-kg Maunds)                  |                           |                           |                           |                           |
| 18   | Value of straw or byproduct per acre                   |                           |                           |                           |                           |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                           |                           |                           |                           |
| 20   | Marketing cost (Rs/40 kgs)                             |                           |                           |                           |                           |
|  | 20.1 Including land rent                               |                           |                           |                           |                           |
|  | 20.2 Excluding land rent                               |                           |                           |                           |                           |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                     | After                      | Before                     | After                      |
|--|--|----------------------------|----------------------------|----------------------------|----------------------------|
|  |  | Mustard                    | Mustard                    | Sunflower                  | Sunflower                  |
|  |  | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) |
| 1  | <b>Land preparation:</b>                               |                            |                            |                            |                            |
|  | 1.1 Rotavator/disc plough                              |                            |                            |                            |                            |
|  | 1.2 Ploughing  |                            |                            |                            |                            |
|  | 1.3 Ploughing & planking                               |                            |                            |                            |                            |
|  | 1.4 Planking   |                            |                            |                            |                            |
|  | 1.5 Levelling (hrs)                                    |                            |                            |                            |                            |
| 2  | <b>Seed and sowing operations:</b>                     |                            |                            |                            |                            |
|  | 2.1 Seed used (kgs)                                    |                            |                            |                            |                            |
|  | 2.2. Tractor drilling                                  |                            |                            |                            |                            |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                            |                            |                            |                            |
|  | 2.4 Ploughing in case of broadcasting                  |                            |                            |                            |                            |
|  | 2.5 Planking in case of broadcasting                   |                            |                            |                            |                            |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                     |                            | xxxxxx                     | xxxxxx                     |
| 3  | <b>Bund making:</b>                                    |                            |                            |                            |                            |
|  | 3.1 Manual (m.hrs)                                     |                            |                            |                            |                            |
|  | 3.2 tractor (hrs)                                      |                            |                            |                            |                            |
| 4  | <b>Weedicides</b>                                      |                            |                            |                            |                            |
| 5  | <b>Irrigation: * (Nos)</b>                             |                            |                            |                            |                            |
|  | 5.1 Canal  |                            |                            |                            |                            |
|  | 5.2 Private tube well                                  |                            |                            |                            |                            |
|  | 5.3 Mixed  |                            |                            |                            |                            |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                            |                            |                            |                            |
|  | 6.1 For irrigation                                     |                            |                            |                            |                            |
|  | 6.2 For water course cleaning                          |                            |                            |                            |                            |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                            |                            |                            |                            |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                            |                            |                            |                            |
|  | 8.1 DAP  |                            |                            |                            |                            |
|  | 8.2 Urea   |                            |                            |                            |                            |
|  | 8.3 SSP  |                            |                            |                            |                            |
|  | 8.4 NP (23-23)   |                            |                            |                            |                            |
|  | 8.5 CAN  |                            |                            |                            |                            |
|  | 8.6 SOP  |                            |                            |                            |                            |
|  | 8.7 Gypsum   |                            |                            |                            |                            |
|  | 8.8 Transport and application                          |                            |                            |                            |                            |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                            |                            |                            |                            |
|  | item 5(1) @15 % per annum for 6 months                 |                            |                            |                            |                            |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                            |                            |                            |                            |
|  | Manual harvested                                       |                            |                            |                            |                            |
|  | Machine/Combine Harvested                              |                            |                            |                            |                            |
| 11   | <b>Threshing:</b>                                      |                            |                            |                            |                            |
|  | 11.1 Threshing charges                                 |                            |                            |                            |                            |
|  | 11.2 M.days  |                            |                            |                            |                            |
| 12   | Land rent for 6 months                                 |                            |                            |                            |                            |
| 13   | Land tax (if any charged by Revenue Department)        |                            |                            |                            |                            |
| 14   | Management charges for 6 months                        |                            |                            |                            |                            |
| 15   | Total cost per acre                                    |                            |                            |                            |                            |
| 16   | Yield of main products (40-kg Maunds)                  |                            |                            |                            |                            |
| 18   | Value of straw or byproduct per acre                   |                            |                            |                            |                            |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                            |                            |                            |                            |
| 20   | Marketing cost (Rs/40 kgs)                             |                            |                            |                            |                            |
|  | 20.1 Including land rent                               |                            |                            |                            |                            |
|  | 20.2 Excluding land rent                               |                            |                            |                            |                            |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                    | After                     | Before                    | After                     |
|--|--|---------------------------|---------------------------|---------------------------|---------------------------|
|  |  | Bas-Rice                  | Bas-Rice                  | IRRI Rice                 | IRRI Rice                 |
|  |  | Quantities/Operations (#) | Quantities/Operations (#) | Quantities/Operations (#) | Quantities/Operations (#) |
| 1  | <b>Land preparation:</b>                               |                           |                           |                           |                           |
|  | 1.1 Rotavator/disc plough                              |                           |                           |                           |                           |
|  | 1.2 Ploughing  |                           |                           |                           |                           |
|  | 1.3 Ploughing & planking                               |                           |                           |                           |                           |
|  | 1.4 Planking   |                           |                           |                           |                           |
|  | 1.5 Levelling (hrs)                                    |                           |                           |                           |                           |
| 2  | <b>Seed and sowing operations:</b>                     |                           |                           |                           |                           |
|  | 2.1 Seed used (kgs)                                    |                           |                           |                           |                           |
|  | 2.2. Tractor drilling                                  |                           |                           |                           |                           |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                           |                           |                           |                           |
|  | 2.4 Ploughing in case of broadcasting                  |                           |                           |                           |                           |
|  | 2.5 Planking in case of broadcasting                   |                           |                           |                           |                           |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                    | xxxxxx                    | xxxxxx                    | xxxxxx                    |
| 3  | <b>Bund making:</b>                                    |                           |                           |                           |                           |
|  | 3.1 Manual (m.hrs)                                     |                           |                           |                           |                           |
|  | 3.2 tractor (hrs)                                      |                           |                           |                           |                           |
| 4  | <b>Weedicides</b>                                      |                           |                           |                           |                           |
| 5  | <b>Irrigation: * (Nos)</b>                             |                           |                           |                           |                           |
|  | 5.1 Canal  |                           |                           |                           |                           |
|  | 5.2 Private tube well                                  |                           |                           |                           |                           |
|  | 5.3 Mixed  |                           |                           |                           |                           |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                           |                           |                           |                           |
|  | 6.1 For irrigation                                     |                           |                           |                           |                           |
|  | 6.2 For water course cleaning                          |                           |                           |                           |                           |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                           |                           |                           |                           |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                           |                           |                           |                           |
|  | 8.1 DAP  |                           |                           |                           |                           |
|  | 8.2 Urea   |                           |                           |                           |                           |
|  | 8.3 SSP  |                           |                           |                           |                           |
|  | 8.4 NP (23-23)   |                           |                           |                           |                           |
|  | 8.5 CAN  |                           |                           |                           |                           |
|  | 8.6 SOP  |                           |                           |                           |                           |
|  | 8.7 Gypsum   |                           |                           |                           |                           |
|  | 8.8 Transport and application                          |                           |                           |                           |                           |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                           |                           |                           |                           |
|  | item 5(1) @15 % per annum for 6 months                 |                           |                           |                           |                           |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                           |                           |                           |                           |
|  | Manual harvested                                       |                           |                           |                           |                           |
|  | Machine/Combine Harvested                              |                           |                           |                           |                           |
| 11   | <b>Threshing:</b>                                      |                           |                           |                           |                           |
|  | 11.1 Threshing charges                                 |                           |                           |                           |                           |
|  | 11.2 M.days  |                           |                           |                           |                           |
| 12   | Land rent for 6 months                                 |                           |                           |                           |                           |
| 13   | Land tax (if any charged by Revenue Department)        |                           |                           |                           |                           |
| 14   | Management charges for 6 months                        |                           |                           |                           |                           |
| 15   | Total cost per acre                                    |                           |                           |                           |                           |
| 16   | Yield of main products (40-kg Maunds)                  |                           |                           |                           |                           |
| 18   | Value of straw or byproduct per acre                   |                           |                           |                           |                           |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                           |                           |                           |                           |
| 20   | Marketing cost (Rs/40 kgs)                             |                           |                           |                           |                           |
|  | 20.1 Including land rent                               |                           |                           |                           |                           |
|  | 20.2 Excluding land rent                               |                           |                           |                           |                           |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                    | After                     | Before                    | After                     |
|--|--|---------------------------|---------------------------|---------------------------|---------------------------|
|  |  | Maize                     | Maize                     | Sorghum                   | Sorghum                   |
|  |  | Quantities/Operations (#) | Quantities/Operations (#) | Quantities/Operations (#) | Quantities/Operations (#) |
| 1  | <b>Land preparation:</b>                               |                           |                           |                           |                           |
|  | 1.1 Rotavator/disc plough                              |                           |                           |                           |                           |
|  | 1.2 Ploughing  |                           |                           |                           |                           |
|  | 1.3 Ploughing & planking                               |                           |                           |                           |                           |
|  | 1.4 Planking   |                           |                           |                           |                           |
|  | 1.5 Levelling (hrs)                                    |                           |                           |                           |                           |
| 2  | <b>Seed and sowing operations:</b>                     |                           |                           |                           |                           |
|  | 2.1 Seed used (kgs)                                    |                           |                           |                           |                           |
|  | 2.2. Tractor drilling                                  |                           |                           |                           |                           |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                           |                           |                           |                           |
|  | 2.4 Ploughing in case of broadcasting                  |                           |                           |                           |                           |
|  | 2.5 Planking in case of broadcasting                   |                           |                           |                           |                           |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                    | xxxxxx                    | xxxxxx                    |                           |
| 3  | <b>Bund making:</b>                                    |                           |                           |                           |                           |
|  | 3.1 Manual (m.hrs)                                     |                           |                           |                           |                           |
|  | 3.2 tractor (hrs)                                      |                           |                           |                           |                           |
| 4  | <b>Weedicides</b>                                      |                           |                           |                           |                           |
| 5  | <b>Irrigation: * (Nos)</b>                             |                           |                           |                           |                           |
|  | 5.1 Canal  |                           |                           |                           |                           |
|  | 5.2 Private tube well                                  |                           |                           |                           |                           |
|  | 5.3 Mixed  |                           |                           |                           |                           |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                           |                           |                           |                           |
|  | 6.1 For irrigation                                     |                           |                           |                           |                           |
|  | 6.2 For water course cleaning                          |                           |                           |                           |                           |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                           |                           |                           |                           |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                           |                           |                           |                           |
|  | 8.1 DAP  |                           |                           |                           |                           |
|  | 8.2 Urea   |                           |                           |                           |                           |
|  | 8.3 SSP  |                           |                           |                           |                           |
|  | 8.4 NP (23-23)   |                           |                           |                           |                           |
|  | 8.5 CAN  |                           |                           |                           |                           |
|  | 8.6 SOP  |                           |                           |                           |                           |
|  | 8.7 Gypsum   |                           |                           |                           |                           |
|  | 8.8 Transport and application                          |                           |                           |                           |                           |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                           |                           |                           |                           |
|  | item 5(1) @15 % per annum for 6 months                 |                           |                           |                           |                           |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                           |                           |                           |                           |
|  | Manual harvested                                       |                           |                           |                           |                           |
|  | Machine/Combine Harvested                              |                           |                           |                           |                           |
| 11   | <b>Threshing:</b>                                      |                           |                           |                           |                           |
|  | 11.1 Threshing charges                                 |                           |                           |                           |                           |
|  | 11.2 M.days  |                           |                           |                           |                           |
| 12   | Land rent for 6 months                                 |                           |                           |                           |                           |
| 13   | Land tax (if any charged by Revenue Department)        |                           |                           |                           |                           |
| 14   | Management charges for 6 months                        |                           |                           |                           |                           |
| 15   | Total cost per acre                                    |                           |                           |                           |                           |
| 16   | Yield of main products (40-kg Maunds)                  |                           |                           |                           |                           |
| 18   | Value of straw or byproduct per acre                   |                           |                           |                           |                           |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                           |                           |                           |                           |
| 20   | Marketing cost (Rs/40 kgs)                             |                           |                           |                           |                           |
|  | 20.1 Including land rent                               |                           |                           |                           |                           |
|  | 20.2 Excluding land rent                               |                           |                           |                           |                           |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                     | After                      | Before                     | After                      |
|--|--|----------------------------|----------------------------|----------------------------|----------------------------|
|  |  | Millet                     | Millet                     | Guarseed                   | Guarseed                   |
|  |  | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) |
| 1  | <b>Land preparation:</b>                               |                            |                            |                            |                            |
|  | 1.1 Rotavator/disc plough                              |                            |                            |                            |                            |
|  | 1.2 Ploughing  |                            |                            |                            |                            |
|  | 1.3 Ploughing & planking                               |                            |                            |                            |                            |
|  | 1.4 Planking   |                            |                            |                            |                            |
|  | 1.5 Levelling (hrs)                                    |                            |                            |                            |                            |
| 2  | <b>Seed and sowing operations:</b>                     |                            |                            |                            |                            |
|  | 2.1 Seed used (kgs)                                    |                            |                            |                            |                            |
|  | 2.2. Tractor drilling                                  |                            |                            |                            |                            |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                            |                            |                            |                            |
|  | 2.4 Ploughing in case of broadcasting                  |                            |                            |                            |                            |
|  | 2.5 Planking in case of broadcasting                   |                            |                            |                            |                            |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                     |                            | xxxxxx                     |                            |
| 3  | <b>Bund making:</b>                                    |                            |                            |                            |                            |
|  | 3.1 Manual (m.hrs)                                     |                            |                            |                            |                            |
|  | 3.2 tractor (hrs)                                      |                            |                            |                            |                            |
| 4  | <b>Weedicides</b>                                      |                            |                            |                            |                            |
| 5  | <b>Irrigation: * (Nos)</b>                             |                            |                            |                            |                            |
|  | 5.1 Canal  |                            |                            |                            |                            |
|  | 5.2 Private tube well                                  |                            |                            |                            |                            |
|  | 5.3 Mixed  |                            |                            |                            |                            |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                            |                            |                            |                            |
|  | 6.1 For irrigation                                     |                            |                            |                            |                            |
|  | 6.2 For water course cleaning                          |                            |                            |                            |                            |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                            |                            |                            |                            |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                            |                            |                            |                            |
|  | 8.1 DAP  |                            |                            |                            |                            |
|  | 8.2 Urea   |                            |                            |                            |                            |
|  | 8.3 SSP  |                            |                            |                            |                            |
|  | 8.4 NP (23-23)   |                            |                            |                            |                            |
|  | 8.5 CAN  |                            |                            |                            |                            |
|  | 8.6 SOP  |                            |                            |                            |                            |
|  | 8.7 Gypsum   |                            |                            |                            |                            |
|  | 8.8 Transport and application                          |                            |                            |                            |                            |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                            |                            |                            |                            |
|  | item 5(1) @15 % per annum for 6 months                 |                            |                            |                            |                            |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                            |                            |                            |                            |
|  | Manual harvested                                       |                            |                            |                            |                            |
|  | Machine/Combine Harvested                              |                            |                            |                            |                            |
| 11   | <b>Threshing:</b>                                      |                            |                            |                            |                            |
|  | 11.1 Threshing charges                                 |                            |                            |                            |                            |
|  | 11.2 M.days  |                            |                            |                            |                            |
| 12   | Land rent for 6 months                                 |                            |                            |                            |                            |
| 13   | Land tax (if any charged by Revenue Department)        |                            |                            |                            |                            |
| 14   | Management charges for 6 months                        |                            |                            |                            |                            |
| 15   | Total cost per acre                                    |                            |                            |                            |                            |
| 16   | Yield of main products (40-kg Maunds)                  |                            |                            |                            |                            |
| 18   | Value of straw or byproduct per acre                   |                            |                            |                            |                            |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                            |                            |                            |                            |
| 20   | Marketing cost (Rs/40 kgs)                             |                            |                            |                            |                            |
|  | 20.1 Including land rent                               |                            |                            |                            |                            |
|  | 20.2 Excluding land rent                               |                            |                            |                            |                            |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                     | After                      | Before                     | After                      |
|--|--|----------------------------|----------------------------|----------------------------|----------------------------|
|  |  | O-R-Fodder                 | O-R-Fodder                 | O-K-Fodder                 | O-K-Fodder                 |
|  |  | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) |
| 1  | <b>Land preparation:</b>                               |                            |                            |                            |                            |
|  | 1.1 Rotavator/disc plough                              |                            |                            |                            |                            |
|  | 1.2 Ploughing  |                            |                            |                            |                            |
|  | 1.3 Ploughing & planking                               |                            |                            |                            |                            |
|  | 1.4 Planking   |                            |                            |                            |                            |
|  | 1.5 Levelling (hrs)                                    |                            |                            |                            |                            |
| 2  | <b>Seed and sowing operations:</b>                     |                            |                            |                            |                            |
|  | 2.1 Seed used (kgs)                                    |                            |                            |                            |                            |
|  | 2.2. Tractor drilling                                  |                            |                            |                            |                            |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                            |                            |                            |                            |
|  | 2.4 Ploughing in case of broadcasting                  |                            |                            |                            |                            |
|  | 2.5 Planking in case of broadcasting                   |                            |                            |                            |                            |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                     | xxxxxx                     | xxxxxx                     | xxxxxx                     |
| 3  | <b>Bund making:</b>                                    |                            |                            |                            |                            |
|  | 3.1 Manual (m.hrs)                                     |                            |                            |                            |                            |
|  | 3.2 tractor (hrs)                                      |                            |                            |                            |                            |
| 4  | <b>Weedicides</b>                                      |                            |                            |                            |                            |
| 5  | <b>Irrigation: * (Nos)</b>                             |                            |                            |                            |                            |
|  | 5.1 Canal  |                            |                            |                            |                            |
|  | 5.2 Private tube well                                  |                            |                            |                            |                            |
|  | 5.3 Mixed  |                            |                            |                            |                            |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                            |                            |                            |                            |
|  | 6.1 For irrigation                                     |                            |                            |                            |                            |
|  | 6.2 For water course cleaning                          |                            |                            |                            |                            |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                            |                            |                            |                            |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                            |                            |                            |                            |
|  | 8.1 DAP  |                            |                            |                            |                            |
|  | 8.2 Urea   |                            |                            |                            |                            |
|  | 8.3 SSP  |                            |                            |                            |                            |
|  | 8.4 NP (23-23)   |                            |                            |                            |                            |
|  | 8.5 CAN  |                            |                            |                            |                            |
|  | 8.6 SOP  |                            |                            |                            |                            |
|  | 8.7 Gypsum   |                            |                            |                            |                            |
|  | 8.8 Transport and application                          |                            |                            |                            |                            |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                            |                            |                            |                            |
|  | item 5(1) @15 % per annum for 6 months                 |                            |                            |                            |                            |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                            |                            |                            |                            |
|  | Manual harvested                                       |                            |                            |                            |                            |
|  | Machine/Combine Harvested                              |                            |                            |                            |                            |
| 11   | <b>Threshing:</b>                                      |                            |                            |                            |                            |
|  | 11.1 Threshing charges                                 |                            |                            |                            |                            |
|  | 11.2 M.days  |                            |                            |                            |                            |
| 12   | Land rent for 6 months                                 |                            |                            |                            |                            |
| 13   | Land tax (if any charged by Revenue Department)        |                            |                            |                            |                            |
| 14   | Management charges for 6 months                        |                            |                            |                            |                            |
| 15   | Total cost per acre                                    |                            |                            |                            |                            |
| 16   | Yield of main products (40-kg Maunds)                  |                            |                            |                            |                            |
| 18   | Value of straw or byproduct per acre                   |                            |                            |                            |                            |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                            |                            |                            |                            |
| 20   | Marketing cost (Rs/40 kgs)                             |                            |                            |                            |                            |
|  | 20.1 Including land rent                               |                            |                            |                            |                            |
|  | 20.2 Excluding land rent                               |                            |                            |                            |                            |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                     | After                      | Before                     | After                      |
|--|--|----------------------------|----------------------------|----------------------------|----------------------------|
|  |  | O-R-Crop-1                 | O-R-Crop-1                 | O-R-Crop-2                 | O-R-Crop-2                 |
|  |  | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) |
| 1  | <b>Land preparation:</b>                               |                            |                            |                            |                            |
|  | 1.1 Rotavator/disc plough                              |                            |                            |                            |                            |
|  | 1.2 Ploughing  |                            |                            |                            |                            |
|  | 1.3 Ploughing & planking                               |                            |                            |                            |                            |
|  | 1.4 Planking   |                            |                            |                            |                            |
|  | 1.5 Levelling (hrs)                                    |                            |                            |                            |                            |
| 2  | <b>Seed and sowing operations:</b>                     |                            |                            |                            |                            |
|  | 2.1 Seed used (kgs)                                    |                            |                            |                            |                            |
|  | 2.2. Tractor drilling                                  |                            |                            |                            |                            |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                            |                            |                            |                            |
|  | 2.4 Ploughing in case of broadcasting                  |                            |                            |                            |                            |
|  | 2.5 Planking in case of broadcasting                   |                            |                            |                            |                            |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                     | xxxxxx                     | xxxxxx                     | xxxxxx                     |
| 3  | <b>Bund making:</b>                                    |                            |                            |                            |                            |
|  | 3.1 Manual (m.hrs)                                     |                            |                            |                            |                            |
|  | 3.2 tractor (hrs)                                      |                            |                            |                            |                            |
| 4  | <b>Weedicides</b>                                      |                            |                            |                            |                            |
| 5  | <b>Irrigation: * (Nos)</b>                             |                            |                            |                            |                            |
|  | 5.1 Canal  |                            |                            |                            |                            |
|  | 5.2 Private tube well                                  |                            |                            |                            |                            |
|  | 5.3 Mixed  |                            |                            |                            |                            |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                            |                            |                            |                            |
|  | 6.1 For irrigation                                     |                            |                            |                            |                            |
|  | 6.2 For water course cleaning                          |                            |                            |                            |                            |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                            |                            |                            |                            |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                            |                            |                            |                            |
|  | 8.1 DAP  |                            |                            |                            |                            |
|  | 8.2 Urea   |                            |                            |                            |                            |
|  | 8.3 SSP  |                            |                            |                            |                            |
|  | 8.4 NP (23-23)   |                            |                            |                            |                            |
|  | 8.5 CAN  |                            |                            |                            |                            |
|  | 8.6 SOP  |                            |                            |                            |                            |
|  | 8.7 Gypsum   |                            |                            |                            |                            |
|  | 8.8 Transport and application                          |                            |                            |                            |                            |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                            |                            |                            |                            |
|  | item 5(1) @15 % per annum for 6 months                 |                            |                            |                            |                            |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                            |                            |                            |                            |
|  | Manual harvested                                       |                            |                            |                            |                            |
|  | Machine/Combine Harvested                              |                            |                            |                            |                            |
| 11   | <b>Threshing:</b>                                      |                            |                            |                            |                            |
|  | 11.1 Threshing charges                                 |                            |                            |                            |                            |
|  | 11.2 M.days  |                            |                            |                            |                            |
| 12   | Land rent for 6 months                                 |                            |                            |                            |                            |
| 13   | Land tax (if any charged by Revenue Department)        |                            |                            |                            |                            |
| 14   | Management charges for 6 months                        |                            |                            |                            |                            |
| 15   | Total cost per acre                                    |                            |                            |                            |                            |
| 16   | Yield of main products (40-kg Maunds)                  |                            |                            |                            |                            |
| 18   | Value of straw or byproduct per acre                   |                            |                            |                            |                            |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                            |                            |                            |                            |
| 20   | Marketing cost (Rs/40 kgs)                             |                            |                            |                            |                            |
|  | 20.1 Including land rent                               |                            |                            |                            |                            |
|  | 20.2 Excluding land rent                               |                            |                            |                            |                            |

| MT-03: COST OF PRODUCTION (KHARIF-2020; RABI, 2020-21) |  | Before                     | After                      | Before                     | After                      |
|--|--|----------------------------|----------------------------|----------------------------|----------------------------|
|  |  | O-K-Crop-1                 | O-K-Crop-1                 | O-K-Crop-2                 | O-K-Crop-2                 |
|  |  | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) | Quantities/O perations (#) |
| 1  | <b>Land preparation:</b>                               |                            |                            |                            |                            |
|  | 1.1 Rotavator/disc plough                              |                            |                            |                            |                            |
|  | 1.2 Ploughing  |                            |                            |                            |                            |
|  | 1.3 Ploughing & planking                               |                            |                            |                            |                            |
|  | 1.4 Planking   |                            |                            |                            |                            |
|  | 1.5 Levelling (hrs)                                    |                            |                            |                            |                            |
| 2  | <b>Seed and sowing operations:</b>                     |                            |                            |                            |                            |
|  | 2.1 Seed used (kgs)                                    |                            |                            |                            |                            |
|  | 2.2. Tractor drilling                                  |                            |                            |                            |                            |
|  | 2.3 Labour for seed broadcasting (m.hrs)               |                            |                            |                            |                            |
|  | 2.4 Ploughing in case of broadcasting                  |                            |                            |                            |                            |
|  | 2.5 Planking in case of broadcasting                   |                            |                            |                            |                            |
|  | 2.6 Nursery transplanting in rice only                 | xxxxxx                     | xxxxxx                     | xxxxxx                     | xxxxxx                     |
| 3  | <b>Bund making:</b>                                    |                            |                            |                            |                            |
|  | 3.1 Manual (m.hrs)                                     |                            |                            |                            |                            |
|  | 3.2 tractor (hrs)                                      |                            |                            |                            |                            |
| 4  | <b>Weedicides</b>                                      |                            |                            |                            |                            |
| 5  | <b>Irrigation: * (Nos)</b>                             |                            |                            |                            |                            |
|  | 5.1 Canal  |                            |                            |                            |                            |
|  | 5.2 Private tube well                                  |                            |                            |                            |                            |
|  | 5.3 Mixed  |                            |                            |                            |                            |
| 6  | <b>Labour for irrigation and water course cleaning</b> |                            |                            |                            |                            |
|  | 6.1 For irrigation                                     |                            |                            |                            |                            |
|  | 6.2 For water course cleaning                          |                            |                            |                            |                            |
| 7  | <b>Farm Yard Manure (50 %)</b>                         |                            |                            |                            |                            |
| 8  | <b>Fertilizers: (bags/Acre of 8 Kanals)</b>            |                            |                            |                            |                            |
|  | 8.1 DAP  |                            |                            |                            |                            |
|  | 8.2 Urea   |                            |                            |                            |                            |
|  | 8.3 SSP  |                            |                            |                            |                            |
|  | 8.4 NP (23-23)   |                            |                            |                            |                            |
|  | 8.5 CAN  |                            |                            |                            |                            |
|  | 8.6 SOP  |                            |                            |                            |                            |
|  | 8.7 Gypsum   |                            |                            |                            |                            |
|  | 8.8 Transport and application                          |                            |                            |                            |                            |
| 9  | <b>Mark up on investment on item 1to 8 excluding</b>   |                            |                            |                            |                            |
|  | item 5(1) @15 % per annum for 6 months                 |                            |                            |                            |                            |
| 10   | <b>Harvesting charges (40 kgs/acre)</b>                |                            |                            |                            |                            |
|  | Manual harvested                                       |                            |                            |                            |                            |
|  | Machine/Combine Harvested                              |                            |                            |                            |                            |
| 11   | <b>Threshing:</b>                                      |                            |                            |                            |                            |
|  | 11.1 Threshing charges                                 |                            |                            |                            |                            |
|  | 11.2 M.days  |                            |                            |                            |                            |
| 12   | Land rent for 6 months                                 |                            |                            |                            |                            |
| 13   | Land tax (if any charged by Revenue Department)        |                            |                            |                            |                            |
| 14   | Management charges for 6 months                        |                            |                            |                            |                            |
| 15   | Total cost per acre                                    |                            |                            |                            |                            |
| 16   | Yield of main products (40-kg Maunds)                  |                            |                            |                            |                            |
| 18   | Value of straw or byproduct per acre                   |                            |                            |                            |                            |
| 19   | Cost of production at farm level: (Rs/40 kgs)          |                            |                            |                            |                            |
| 20   | Marketing cost (Rs/40 kgs)                             |                            |                            |                            |                            |
|  | 20.1 Including land rent                               |                            |                            |                            |                            |
|  | 20.2 Excluding land rent                               |                            |                            |                            |                            |

## MT-04: WATER FLOW MEASUREMENT

### 1. IDENTIFICATION

| DB.# | Q.# | Field Name            |
|------|-----|-----------------------|
|      | 1   | Watercourse ID: _____ |

### 2. WATERCOURSE IMPROVEMENT STATUS

|  |    |                                   |
|--|----|-----------------------------------|
|  | 2  | State of Watercourse Improvement? |
|  | i  | Improved                          |
|  | ii | UnImproved                        |
|  | 3  | Lining Length of WC (Meter)?      |
|  | 4  | Total Length of WC (Meter)?       |

### Station-1: PYGMY CURRENT METER READINGS NEAR WATERCOURSE OUTLET

(At about 10 meters away from Mogha)

|  |   |  |
|--|---|--|
|  | 5 | Cross-section width from edge of Water Course (inches) |
|--|---|--|

### Station-1: Observation-1

|  |    |   |
|--|----|---|
|  | 6  | Depth-1 (inches)  |
|  | 7  | Pygmy current meter revolution counts in 40 seconds (Depth-1) |
|  | 8  | Depth-2 (inches)  |
|  | 9  | Pygmy current meter revolution counts in 40 seconds (Depth-2) |
|  | 10 | Depth-3 (inches)  |
|  | 11 | Pygmy current meter revolution counts in 40 seconds (Depth-3) |
|  | 12 | Enter cross section of WC after observation-1 (feet)          |

### Station-1: Observation-2

|  |    |   |
|--|----|---|
|  | 13 | Depth-1 (inches)  |
|  | 14 | Pygmy current meter revolution counts in 40 seconds (Depth-1) |
|  | 15 | Depth-2 (inches)  |
|  | 16 | Pygmy current meter revolution counts in 40 seconds (Depth-2) |
|  | 17 | Depth-3 (inches)  |
|  | 18 | Pygmy current meter revolution counts in 40 seconds (Depth-3) |
|  | 19 | Enter cross section of WC after observation-2 (feet)          |

### Station-1: Observation-3

|  |    |   |
|--|----|---|
|  | 20 | Depth-1 (inches)  |
|  | 21 | Pygmy current meter revolution counts in 40 seconds (Depth-1) |
|  | 22 | Depth-2 (inches)  |
|  | 23 | Pygmy current meter revolution counts in 40 seconds (Depth-2) |
|  | 24 | Depth-3 (inches)  |
|  | 25 | Pygmy current meter revolution counts in 40 seconds (Depth-3) |
|  | 26 | Sketch of watercourse cross section area                      |
|  | 27 | Comments of interviewer - (if any) (optional)                 |

### STATION-2: PYGMY CURRENT METER READINGS CLOSE TO THE END OF LINING PART AND AT MID POINT OF MIDDLE REACH OF THE WATERCOURSE

|  |    |  |
|--|----|--|
|  | 28 | Cross-section width from edge of WC (inches) |
|--|----|--|

## MT-04: WATER FLOW MEASUREMENT

### Station-2: Observation-1

|  |    |   |
|--|----|---|
|  | 29 | Depth-1 (inches)  |
|  | 30 | Pygmy current meter revolution counts in 40 seconds (Depth-1) |
|  | 31 | Depth-2 (inches)  |
|  | 32 | Pygmy current meter revolution counts in 40 seconds (Depth-2) |
|  | 33 | Depth-3 (inches)  |
|  | 34 | Pygmy current meter revolution counts in 40 seconds (Depth-3) |
|  | 35 | Enter cross section of WC after observation-1 (feet)          |

### Station-2: Observation-2

|  |    |   |
|--|----|---|
|  | 36 | Depth-1 (inches)  |
|  | 37 | Pygmy current meter revolution counts in 40 seconds (Depth-1) |
|  | 38 | Depth-2 (inches)  |
|  | 39 | Pygmy current meter revolution counts in 40 seconds (Depth-2) |
|  | 40 | Depth-3 (inches)  |
|  | 41 | Pygmy current meter revolution counts in 40 seconds (Depth-3) |
|  | 42 | Enter cross section of WC after observation-2 (feet)          |

### Station-2: Observation-3

|  |    |   |
|--|----|---|
|  | 43 | Depth-1 (inches)  |
|  | 44 | Pygmy current meter revolution counts in 40 seconds (Depth-1) |
|  | 46 | Depth-2 (inches)  |
|  | 47 | Pygmy current meter revolution counts in 40 seconds (Depth-2) |
|  | 48 | Depth-3 (inches)  |
|  | 49 | Pygmy current meter revolution counts in 40 seconds (Depth-3) |
|  | 50 | Sketch of WC cross section area                               |

### STATION-3: PYGMY CURRENT METER READINGS AT MID POINT OF TAIL REACH OF THE WATERCOURSE (About 75% length of the watercourse)

51 Cross-section width from edge of WC (inches)

### Station-3: Observation-1

|  |    |   |
|--|----|---|
|  | 52 | Depth-1 (inches)  |
|  | 53 | Pygmy current meter revolution counts in 40 seconds (Depth-1) |
|  | 54 | Depth-2 (inches)  |
|  | 55 | Pygmy current meter revolution counts in 40 seconds (Depth-2) |
|  | 56 | Depth-3 (inches)  |
|  | 57 | Pygmy current meter revolution counts in 40 seconds (Depth-3) |
|  | 58 | Enter cross section of WC after observation-1 (feet)          |

### Station-3: Observation-2

|  |    |   |
|--|----|---|
|  | 59 | Depth-1 (inches)  |
|  | 60 | Pygmy current meter revolution counts in 40 seconds (Depth-1) |
|  | 61 | Depth-2 (inches)  |
|  | 62 | Pygmy current meter revolution counts in 40 seconds (Depth-2) |

## MT-04: WATER FLOW MEASUREMENT

|                          |  |   |
|--------------------------|--|---|
|                          | 63   | Depth-3 (inches)  |
|                          | 64   | Pygmy current meter revolution counts in 40 seconds (Depth-3)   |
|                          | 65   | Enter cross section of WC after observation-2 (feet)            |
| Station-3: Observation-3 |  |   |
|                          | 66   | Depth-1 (inches)  |
|                          | 67   | Pygmy current meter revolution counts in 40 seconds (Depth-1)   |
|                          | 68   | Depth-2 (inches)  |
|                          | 69   | Pygmy current meter revolution counts in 40 seconds (Depth-2)   |
|                          | 70   | Depth-3 (inches)  |
|                          | 71   | Pygmy current meter revolution counts in 40 seconds (Depth-3)   |
|                          | 72   | Sketch of WC cross section area                                 |
|                          | <b>If Pygmy Meter is not available, then what are Farmers' Perceptions about Water Flow?</b> |   |
|                          | 73   | Any increase in the flow of water noticed After Rehabilitation? |
|                          | i  | Yes   |
|                          | ii   | NO  |
|                          | 74   | If YES, How much increase?                                      |
|                          | i  | 5%  |
|                          | ii   | 10%   |
|                          | iii  | 15%   |
|                          | iv   | 20%   |
|                          | v  | 25%   |
|                          | 75   | Comments of interviewer - (if any) (optional)                   |

## MT-05: MONITORING OF WATER STRUCTUREE

### 1. IDENTIFICATION

| DB.# | Q.# | Field Name                                       |
|------|-----|--|
|      | 1   | Status of Water Stoarge tank (WST) Construction? |
|      | i   | Technical Sanction(TS) Issued                    |
|      | ii  | Final Completion Report (FCR) Issued             |

### 2. SPOT CHECK

|  |     |  |
|--|-----|--|
|  | 2   | Coordinates at mogha point?  |
|  | 3   | Take Picture of Water Stoarge tank (WST)?                            |
|  | 4   | Shape of the water storage tank?                                     |
|  | i   | Square   |
|  | ii  | Rectangular  |
|  | iii | Trapezoidal  |
|  | 5   | Construction type of the water storage tank?                         |
|  | i   | Brick/Masonry  |
|  | ii  | Geomembrane  |
|  | iii | PCC  |
|  | iv  | Any other, specify   |
|  | 6   | Type of water storage tank?  |
|  | i   | Trapezoidal  |
|  | ii  | Rectangular  |
|  | iii | Brick/Masonry  |
|  | iv  | Geomembrane  |
|  | v   | PCC  |
|  | vi  | Any other, specify   |
|  | 7   | Length-1 (Feet)?   |
|  | 8   | Length-2 (Feet)?   |
|  | 9   | Width-1 (Feet)   |
|  | 10  | Width-2 (Feet)   |
|  | 11  | Depth (Feet)   |
|  | 12  | The farmer completed the WST using his/her own funds before subsidy? |
|  | i   | Yes  |
|  | ii  | No   |
|  | 13  | What benefits you can expect from rehabilitation of Water Tank?      |
|  | i   | Reduce ground water consumption                                      |
|  | ii  | Reduce water bills   |
|  | iii | Extended water supply  |
|  | iv  | Improved water quality/less salty water                              |
|  | v   | Reduction in soil erosion  |
|  | vi  | Better control on water supply                                       |
|  | vii | Any other, specify   |

## MT-05: MONITORING OF WATER STRUCTUREE

|  |    |   |
|--|----|---|
|  | 14 | The WST was completed as per approved standards and specifications?                                     |
|  | i  | Yes   |
|  | ii | No  |
|  | 15 | Excavation was done as per standard engineering practices?  |
|  | i  | Yes   |
|  | ii | No  |
|  | 16 | The NWM Consultants inspected the excavation and quality of geo-membrane and certified as satisfactory? |
|  | i  | Yes   |
|  | ii | No  |
|  | 15 | Before filling the WST, the OFWM staff prepared the completion report?                                  |
|  | i  | Yes   |
|  | ii | No  |
|  | 16 | Any variations in specifications and material used?   |
|  | i  | Yes   |
|  | ii | No  |
|  | 17 | Subsidy was paid as per cost estimates based on geo-membrane design?                                    |
|  | i  | Yes   |
|  | ii | No  |
|  | 18 | Does the water depth in Water Storage Tank exceed 5 feet?   |
|  | i  | Yes   |
|  | ii | No  |
| If "Yes" in Q.#4.9 then continue with Q# 4.9.1 |    | Otherwise goto Q.#4.10  |
|  | 19 | Depth of water?   |
|  | 20 | Is the geo-membrane thickness minimum 0.5 mm?   |
|  | i  | Yes   |
|  | ii | No  |
|  | 21 | Do all joints welded through fusion welding?  |
|  | i  | Yes   |
|  | ii | No  |
| If yes in Q#4.11 then continue with Q#4.11.1   |    | Otherwise goto Q.#5.4   |
|  | 22 | Is the testing of Joints welded parts done before filling the water storage tank?                       |
|  | i  | Yes   |
|  | ii | No  |
|  | 23 | Financial Year  |
|  | 24 | Supervisor Confirmation?  |
|  | 25 | Select Submission Status  |
|  | 26 | Comments of interviewer - (if any) (optional)   |

## MT-6: FOOD SECURITY

### A. Food Cooking / Consumption Patterns

|   |  |
|---|--|
| 1 | Wheat/wheat flour (# of times per week)    |
| 2 | Rice (# of times per week)                 |
| 3 | Maize/maize flour (# of times per week)    |
| 4 | Sorghum/Millet flour (# of times per week) |
| 5 | Pulses (# of times per week)               |
| 6 | Vegetables (# of times per week)           |
| 7 | Others, if any                             |

### B. Total Monthly Consumption Needs of the Household

|    |                                |
|----|--------------------------------|
| 8  | Wheat/wheat flour (Kilogram)   |
| 9  | Basmati rice (Kilogram)        |
| 10 | Other rice (Kilogram)          |
| 11 | Maize (Kilogram)               |
| 12 | Sorghum/Millet (Kilogram)      |
| 13 | Beef (Kilogram)                |
| 14 | Mutton (Kilogram)              |
| 15 | Chicken (Kilogram)             |
| 16 | Gram pulse (Kilogram)          |
| 17 | Lentil pulse (Kilogram)        |
| 18 | Mash/Mung pulse (Kilogram)     |
| 19 | Any other pulse (Kilogram)     |
| 20 | Sugar, Shakkar, Gur (Kilogram) |
| 21 | Milk (Liters)                  |
| 22 | Fruits (Kilogram)              |
| 23 | Vegetables (Kilogram)          |
| 24 | Others-1, if any               |
| 25 | Others-2, if any               |

### C. Quantities Bought Last Month for Home Consumption

|    |                                |
|----|--------------------------------|
| 26 | Wheat/wheat flour (Kilogram)   |
| 27 | Basmati rice (Kilogram)        |
| 28 | Other rice (Kilogram)          |
| 29 | Maize (Kilogram)               |
| 30 | Sorghum/Millet (Kilogram)      |
| 31 | Beef (Kilogram)                |
| 32 | Mutton (Kilogram)              |
| 33 | Chicken (Kilogram)             |
| 34 | Gram pulse (Kilogram)          |
| 35 | Lentil pulse (Kilogram)        |
| 36 | Mash/Mung pulse (Kilogram)     |
| 37 | Any other pulse (Kilogram)     |
| 38 | Sugar, Shakkar, Gur (Kilogram) |
| 39 | Milk (Liters)                  |
| 40 | Fruits (Kilogram)              |
| 41 | Vegetables (Kilogram)          |
| 42 | Others-1, if any               |
| 43 | Others-2, if any               |

| MT-07: INPUT-OUTPUT PRICES |     |   |
|----------------------------|-----|---|
| DB.#                       | Q.# | Field Name  |
| <b>Inputs Prices</b>       |     |   |
|                            | 1   | Urea Price per Bag?   |
|                            | 2   | DAP Price per Bag?  |
|                            | 3   | Potash Fertilizer Price per Bag?                                  |
|                            | 4   | SSP Fertilizer Price per Bag?                                     |
|                            | 5   | Nitrophos (23/23) Fertilizer Price per Bag?                       |
|                            | 6   | Ammonium Nitrate Fertilizer Price per Bag?                        |
|                            | 7   | Ammonium Sulphate Fertilizer Price per Bag?                       |
|                            | 8   | FYM Price per Donkey Cart Load?                                   |
|                            | 9   | Approximate Weight (Donkey Cart Load)                             |
|                            | 10  | FYM Trolley Price?  |
|                            | 11  | Approximate Weight (Trolley)?                                     |
|                            | 12  | Water Charges taken by Irrigation Department (Rs./Acre) (Rabi)?   |
|                            | 13  | Water Charges taken by Irrigation Department (Rs./Acre) (Kharif)? |
|                            | 14  | Tubewell water irrigation charges in the village (Rs./Hour)?      |
|                            | 15  | Manual harvesting of wheat (Rs./acre)?                            |
|                            | 16  | Harvesting charges with reaper (Rs./Acre)?                        |
|                            | 17  | Harvesting charges with combine harvesters (Rs./Acre)?            |
|                            | 18  | Threshing charges (Rs./Hour)?                                     |
|                            | 19  | Quantity Threshed in one hour (40-kg Mds)?                        |
|                            | 20  | Tractor charges - cultivator ploughing (Rs./Acre)?                |
|                            | 21  | Tractor charges - rotavator ploughing (Rs./Acre)?                 |
|                            | 22  | Laser land levelling charges (Rs./Hour)?                          |
|                            | 23  | Tractor charges - wheat seed drill sowing (Rs./Hour)?             |
|                            | 24  | Male labor wage rate (normal) (After Rehabilitation)?             |
|                            | 25  | Male labor wage rate (peak season at sowing/harvesting times)?    |
|                            | 26  | Female labor wage rate (normal)?                                  |
|                            | 27  | Female labor wage rate (peak season at sowing/harvesting times)   |
|                            | 28  | PHL Male labor (all benefits included) (Rs./month)                |
|                            | 29  | PHL Female labor (all benefits included) (Rs./month)?             |
|                            | 30  | CHL Male labor (all benefits included) (Rs./month)                |
|                            | 31  | CHL Female labor (all benefits included) (Rs./month)              |
|                            | 32  | Seed of Wheat (Kg)  |
|                            | 33  | Seed of Rice (Kg)?  |
|                            | 34  | Seed of Cotton (Kg)?  |
|                            | 35  | Seed of Sugarcane (Kg)?   |
|                            | 36  | Seed of Sunflower (Kg)?   |
|                            | 37  | Seed of Rapeseed/Mustard (Kg)?                                    |
|                            | 38  | Seed of Onion (Kg)?   |

| MT-07: INPUT-OUTPUT PRICES |     |  |
|----------------------------|-----|--|
| DB.#                       | Q.# | Field Name   |
|                            | 39  | Seed of Tomato (Kg)?                                   |
|                            | 40  | Seed of Chilli (Kg)?                                   |
|                            | 41  | Seed of Okra (Kg)?                                     |
|                            | 42  | 100 plants nursery of Onion (Kg)?                      |
|                            | 43  | 100 plants nursery of tomato (Rs./bunch)?              |
|                            | 44  | 100 plants nursery of chilli (Rs./bunch)?              |
|                            | 45  | 100 plants nursery of Brinjal (Egg Plant) (Rs./Bunch)? |
|                            | 46  | One kanal nursery of rice (Egg Plant) (Rs./Bunch)?     |
|                            | 47  | Supervisor confirmation?                               |
|                            | 48  | Select submission status?                              |
|                            | 49  | Comments of interviewer - (if any) (optional)?         |