

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)



**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

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Abbreviations

| | |
|--------|---|
| ADP | Agriculture Development Plan |
| AF | Additional Funding (of IWRMP) |
| AMIS | Agency- Managed Irrigation System |
| AO | Association Organizer (Social Worker) |
| BLGWP | Bhairahawa Lumbini Groundwater Project |
| CBO | Community Based Organization |
| DADO | District Agriculture Development Office |
| DDC | District Development Committee |
| DDG | Deputy Director General |
| DFSR | Detailed Feasibility Study Report |
| DG | Director General |
| DHM | Department of Hydrology and Meteorology |
| DIO | District Irrigation Office |
| DoA | Department of Agriculture |
| DoI | Department of Irrigation |
| DTL | Deputy Team Leader |
| DTT | District Technical Team |
| DTW | Deep Tube Well |
| DWIDM | Department of Water Induced Disaster Management |
| DWRC | District Water Resources Committee |
| EIA | Environmental Impact Assessment |
| FMIS | Farmers Managed Irrigation System |
| FY | Fiscal Year |
| GIS | Geographical Information System |
| GMIS | Geographical Management Information System |
| GoN | Government of Nepal |
| GVCDAP | Gender and Vulnerable Community Development Action Plan |
| GW | Groundwater |
| GWID | Groundwater Irrigation Directorate |
| GWIDD | Groundwater Irrigation Development Division |
| ha | hectare |
| ICWMP | Integrated Crop and Water Management Program |
| IDA | International Development Association |
| IDD | Irrigation Development Division |
| IDF | Institutional Development Frameworks (for WUAs) |
| IDSD | Irrigation Development Sub Division |
| IEE | Initial Environmental Examination |
| IR | Inception Report |
| ISE | Initial Social Examination |
| ISEA | Integrated Social and Environment Assessment |
| ISF | Irrigation Service Fee |
| ISP | Irrigation Subproject |
| IWRMP | Irrigation and Water Resources Management Project |
| M&E | Monitoring and Evaluation |
| MIS | Management Information System |

| | |
|------------|---|
| MoA | Ministry of Agriculture |
| MoF | Ministry of Finance |
| MoI | Ministry of Irrigation |
| MTR | Mid Term Review |
| NGO | Nongovernmental Organization |
| NISP | Nepal Irrigation Sector Project |
| NPC | National Planning Commission |
| O&M | Operation and Maintenance |
| OPD | Office of the Project Director |
| PAD | Project Appraisal Document |
| PBME | Project Beneficiary Monitoring & Evaluation |
| PC | Project Coordinator |
| PD | Project Director |
| PICC | Project Implementation and Coordination Committee |
| PIM | Project Implementation Manual |
| PIU | Project Implementation Unit |
| PMU | Project Management Unit |
| PSC | Project Steering Committee |
| RAC | Regional Appraisal Committee |
| RAD | Regional Agriculture Directorate |
| RD | Regional Director |
| RfP | Request for Proposal |
| RID | Regional Irrigation Directorate |
| RPSU | Regional Project Support Unit |
| SAC | Subproject Appraisal Committee |
| SBD | Standard Bidding Document |
| SDE | Senior Divisional Engineer |
| SEA | Social and Environment Assessment |
| SEMP | Social and Environmental Management Plan |
| SMU | Subproject Management Unit |
| SP | Subproject |
| TA | Technical Assistance |
| Terai (GW) | Terai (Groundwater) |
| Terai (S) | Terai (Surface) |
| ToR | Terms of Reference |
| WB | World Bank |
| WUA | Water Users Association |
| WUG | Water Users Group |

1 INTRODUCTION

1.1 Background

The Irrigation and Water Resources Management Project (IWRMP) was initiated with the aim of supporting the national goal of poverty reduction and to develop Nepalese irrigated agriculture through irrigation development and management. The project is being implemented with grant assistance from the World Bank (WB) along with direct contributions from Water Users Associations (WUAs) and the Government of Nepal (GoN).

Component A of IWRMP, Irrigation Infrastructure Development and Improvement, is focussed on improving irrigation water service delivery, including expansion and improvement of groundwater irrigation in the Terai, in the 40 districts of the western regions. During the period of original scope (OS) of IWRMP (March 2008 to June 2016), a total of 128 subprojects (Surface-119, GW-9), covering 18,312 ha, were improved and developed. The original scope of IWRMP was closed in June 2016.

In order to address users' heavy demands to undertake more subprojects, the WB subsequently agreed to a GoN proposal to continue project activities with an additional financing (AF) package from March 2014 to June 2018. Under the scope of this AF package, the project prepared a detailed investment plan and by March 2015, the PICC had approved 83 subprojects for implementation. Among these, 30 were completed by July 2016.

With the consent of the WB, the project started work on a further 23 subprojects, using savings from the AF programme. With PICC's approval of these additional ISPs by December 2016, the total number of subprojects to be completed by 30 June 2018 rose to 106 (though one has since been abandoned). By the end of the current reporting period (16 November 2017 to 15 March 2018), 63 subprojects have been completed and 42 are ongoing.

1.2 Current Status of Component A

Out of the 105 AF subprojects approved by the PICC for implementation, a total of 63 (WR-29, MWR-22, FWR-12), covering 10,264 ha, were completed by 15 March 2018 (end of 6th trimester). Generally, the construction season in the hills and Terai starts in mid-November. However, during provincial and local level elections, many government officials were deputed to election duties and therefore fieldwork could not run as smoothly as normal. As a result, just 3 subprojects were completed during this trimester. Nevertheless, real progress was achieved on the remaining 42 subprojects still under construction.

For the 63 completed subprojects, their respective Social and Environmental Management Plans (SEMPs) identified a total of 442 issues with 683 mitigation measures of which it is reported that 565 (82%) have been fully implemented.

The project has also collected documents confirming the status of land donations for irrigation infrastructure in 101 subprojects to date. Following approval of proposals for Gender and Vulnerable Community Development Action Plans (GVCDAP), concerned IDDIs have also been implementing the plans in Bhorlebas, Gamkhola Kholtepani and Ratipur ISPs on a pilot basis.

Extension activities to help the farmers make best use of the opportunities created by the project's investment in their irrigation supplies is being led by the respective District Agriculture Development Offices (DADOs) of the Department of Agriculture (DoA). However, progress was limited firstly by local, provincial and national level elections and, secondly, by restructuring of agricultural services in line with new federal government structures.

SEMP of all 105 ISPs have been approved by PICC through its different meetings, including SEMPs for 11 ISPs being re-appraised. On the whole, the rates of SEMP compliance for the 63 completed and 42 ongoing ISPs are of the order 82% and 30%, respectively.

2 PROJECT IMPLEMENTATION

2.1 Irrigation Infrastructure Development

2.1.1 Overall Physical Progress

As noted above, progress during the reporting period was slowed by national and local elections and only 3 ISPs were completed. However, as indicated in **Table 1**, real progress was achieved such that only 3 subprojects were less than 50% complete by the end of the reporting period. Overall, 19 subprojects had achieved of less than 65% by the end of the trimester and particular attention will need to be paid at all levels to these in order to achieve completion by 30 June 2018. They comprise:

- a) **Western Region:** Rumta Aambote, Bhedabari, Bhorlebas, Jhimjhime and Petbaniya DTW.
- b) **Mid-Western Region:** Sarkegad, Girikhola, Laudisim, Kharpula, Chiprakhola, Tatke Kulo, Kharigaira Tarachaur, Babarpur Jaluke, Sanoshree Taratal DTW and Dhanauri DTW.
- c) **Far Western Region:** Subeda Mallo Jyula, Deura Juwalikhet, Suda DTW and Sandepani DTW

Table 1 Construction Progress

| | No of ISPs at Each Level of Completion | | | | |
|---------------------------|--|------|-----------|------|----------|
| | Initial Stage | <50% | 50% - 80% | >80% | Complete |
| West | | | | | |
| 5 th Trimester | 0 | 3 | 5 | 5 | 29 |
| 6 th Trimester | 0 | 2 | 5 | 6 | 29 |
| Mid-West | | | | | |
| 5 th Trimester | 0 | 4 | 10 | 5 | 19 |
| 6 th Trimester | 0 | 0 | 10 | 6 | 22 |
| Far West | | | | | |
| 5 th Trimester | 0 | 2 | 3 | 8 | 12 |
| 6 th Trimester | 0 | 1 | 3 | 9 | 12 |
| Total | | | | | |
| 5 th Trimester | 0 | 9 | 18 | 18 | 60 |
| 6 th Trimester | 0 | 3 | 18 | 21 | 63 |

Table 2 shows the geographical distribution of the 63 subprojects completed to date. Overall, these ISPs, covering a total command area of 10,264 ha, were completed at approximately 76% of their approved estimated cost. It is worth mentioning that expenditure of 3 completed ISPs of Mid-West are likely to increase because there are still some amounts pending payment.

Table 2 Distribution of Completed Subprojects

| Ecological Belt | End of 5 th Trimester | | 6 th Trimester | | | | | | End of 6 th Trimester | |
|-----------------------------|----------------------------------|---------------|---------------------------|----------|-------------|------------|-------------|----------|----------------------------------|---------------|
| | | | Western | | Mid-Western | | Far Western | | | |
| | No of SPs | CCA (ha) | No of SPs | CCA (ha) | No of SPs | CCA (ha) | No of SPs | CCA (ha) | No of SPs | CCA (ha) |
| Mountain | 5 | 178 | - | - | 1 | 28 | - | - | 6 | 206 |
| Hill | 40 | 2,005 | - | - | 1 | 20 | - | - | 41 | 2,025 |
| Terai (Surface) | 11 | 3,871 | - | - | - | - | - | - | 11 | 3,871 |
| Terai (G/W) | 4 | 4,002 | - | - | 1 | 160 | - | - | 5 | 4,162 |
| Total | 60 | 10,056 | - | - | 3 | 208 | - | - | 63 | 10,264 |
| Apprv'd Estimate (NRs '000) | 1,639,072 | | - | | 74,495 | | - | | 1,713,567 | |
| Completion Cost (NRs '000) | 1,247,533 | | - | | 46,751 | | - | | 1,294,284 | |

2.1.2 Subprojects Completed During Trimester

Three subprojects in the Mid-Western Region were reported completed during this trimester. They are Gangru Pinathanks (Humla), Sanichaur (Jajarkot) and Bela DTW (Dang), with combined cultivable command area of 208 ha.

2.1.3 Ongoing Subprojects

At the end of the reporting period, a total of 42 subprojects covering 8,067 ha were ongoing, with 3 less than 50% complete, 18 between 50 and 80% complete and 21 over 80% complete. Among these, there is a high degree of confidence that at the very least, the following 35 ISPs will be completed by June 2018:

- Western Region (10 nos):** **Hill** - Pokharatar, Bakrangbesi, Dhiprang Besi, Tallo Dabake, Gyandi, Rati khola. **Terai** - Bhedabari, Bhorlebas, Itiyakulo and BLGWP-DTW(B)
- Mid-Western Region (13 nos):** **Mountain** - Maspatal, Sarkegad, Laudisim, Librukhol, Kharpula. **Hill** - Lamasera, Pindalephat, Malarani Sahare, Tatke kulo. **Terai** - Bahundanda, Babarpur Jaluke, Sanoshree Taratal DTW and Dhanauri DTW.
- Far Western Region (12 nos):** **Mountain** - Naktad, Pantpali, Bhairabnath, Kuch, Deura Jwalikhet, Bhaunera. **Hill** - Kotedigad, Kadamnadu, Kalapatthareswor. **Terai** - Kalapani, Suda DTW, and Sandepani DTW

However due to some contractual issues, site specific problems, poor performance of the contractors or/and WUAs, and conflict between WUAs & IDD/IDSDs, following 7 subprojects are at risk of not being completed by the end of June 2018:

- Western Region:** Rumta Aambote, Jhimjhime and Petbaniya DTW
- Mid-Western Region:** Girikhola, Kharigaira Tarachaur and Chippra khola
- Far Western Region:** Subeda Mallo Jyula

2.1.4 Surface Water Irrigation Subprojects Encountering Problems

a) Western

As a result of earthquake in 2015, part of the canal in **Pokharatar** is prone to landslides. In order to address this issue, the Gorkha IDD is proceeding to protect the canal and structures with composite gabion and bioengineering works along critical sections of the alignment.

Tallo Dabake is almost complete and has reached the commissioning stage. However, water leakages and overtopping along some reaches of the canal system have been observed. The Kaski IDD has instructed the contractor to rectify the problems as early as possible.

Some steel gates installed in intake, escape and outlets in **Biladhe Mulpani, Bhanubarahha, Sardewa** and **Gairapanari Binpate** are not operating properly. They need regular repair and maintenance for smooth canal operation.

In spite of the concerned IDD's efforts, overall progress of **Jhimjhime** by end of 6th trimester has only reached 65% after more than 2 years. The contract has already been extended twice and is in process of a third. The track record of such slow progress by the contractor and WUA suggests that this subproject is likely to remain uncompleted by June 2018.

Similarly, in **Rumta Aambote** the subproject is only 34% completed despite the IDD's efforts. The WUA has not yet started either its payable or contribution parts. The contractor's and WUA's poor performance mean that this ISP is likely to remain uncompleted by June 2018.

b) Mid-Western

Construction of rural roads by other agencies is creating problems in irrigation ISPs either by burying or eroding canals already built and thereby rendering the completed systems inoperable. **Sakure** ISP is a good example of this.

The WUA of **Giri Khola** has been demanding that a proposed length of HDP pipeline be replaced with an RCC lined canal and this issue is still to be settled. This and progress to date of around 50% mean that the ISP is unlikely to be completed by June 2018.

Kharigaira Tarachaur has attained a progress of 55%. The side intake has not yet been constructed due to uncertainty of its location. The proposed intake is on the left side of river but the WUA wants it constructed on right side. The change in canal alignment at the head reach has created debate among users and landholders which is hindering further progress. Other works are almost complete except for 300 m of canal at head reach and a pipe siphon. As a result, the subproject may not complete by project deadline.

51% progress of **Chhipra khola** is certainly not encouraging. Also, construction of a road track by another agency has buried the right canal of this system. Discussions between WUA and concerned agency has not yet been settled. However, efforts are underway to resolve the issue.

c) Far Western

The WUA of **Subeda Mallo Jyula** is urging the concerned IDD to go for lined cover canal along 1,500 m length in place of the HDP pipeline proposed because they are concerned that it will block with silt because of the shallow longitudinal slope. However, the reach is in a landslip area which makes canal construction difficult. This issue, combined with progress to date of around 50%, means that this ISP is not expected to be completed by June 2018.

2.1.5 Groundwater Irrigation Subprojects Encountering Problems

Available discharges in all three DTWs except DTW/02 of **Dhanauri DTW** are significantly lower than their design discharges. Observed yields could be enhanced through redevelopment and testing of these tube wells.

Out of 6 tube wells in **Sandepani DTW**, yield of DTW-1, 2 and 3 seems relatively low. Redevelopment and testing of tube wells could be carried out to enhance their discharge. Similarly, in **Suda DTW** one DTW out of the four has failed.

Petbaniya DTW had achieved 33% progress by the end of the 6th trimester. Available discharges in all 4 DTWs were reported significantly lower than designed. Redevelopment and subsequent checking of the specific capacity of each tube well could be a way to increase their yields.

2.1.6 Modifications in Command Area

Variations in command area with respect to the DFSR has been observed in 2 completed GW ISPs, totalling 458 ha. Due to the cost ceilings set by PICC, (i) 8 DTWs serving 122 ha were rehabilitated out of the 18 (460 ha) originally proposed for Valwad, and (ii) 16 DTWs serving 640 ha were rehabilitated out of total 19 (760 ha) proposed for Radhapur Sitapur.

Table 3 Variations in Command Area

| Ecological Belt | No of ISPs Affected | Command Area Served by IWRMP Works (ha) | | |
|---------------------|---------------------|---|---------------|----------|
| | | DFSR | Final Outcome | Variance |
| Mountain | - | - | - | - |
| Hill | - | - | - | - |
| Terai (Surface) | - | - | - | - |
| Terai (Groundwater) | 2 | 1,220 | 762 | 458 |
| Total | 2 | 1,220 | 762 | 458 |

2.1.7 Operation and Maintenance

Implementation of an Irrigation Service Fee (ISF) is an important tool for safeguarding the long-term sustainability of the subprojects. Out of 105, 63 subprojects were completed by the end of the current reporting period. Preparation of ISF collection plans is generally targeted at ISPs that are either completed or where physical progress is more than 80%. ISF collection plans for 64 ISPs (West-29, Mid-West-18, Far West-17) had been prepared by end of 6th trimester. All these plans have been prepared with active participation of the respective WUAs and beneficiaries and now need to be ratified by their respective WUA general assemblies before implementation. These plans are prepared to date are as follows:

- a) **Western Region (29 nos):** **Mountain** - Syang, Jhon Putak and Tilche. **Hill** - Bangrebesi, Kisedi, Bilmade Mulpani, Bhanubaraha, Kotrekafaltar, Tallo Dabake, Aguwakhola, Sibdichiluwa, 2023 Sale Kulo, Itiyakhola, Sardewa, Serakhet, Gairapanari Binapate, JherdiKhola, Pokharatar, Bangrebesi, Waorgati, Rumtaambot, Damkaphant Sota and Kamtitar. **Terai** - Bharai Khola, Itiya Kulo, Tokare, Madawan Sikari, Jhimjhime and Valwad DTW.
- b) **Mid-Western Region (18 nos):** **Mountain** - Laudisim. **Hill** - Chauke Takuri, Chhipra khola, Darimjyula, Jharkhet, Sakure, Tatke kulo, Gam khola, Malarani Sahare and Mathillo Bahunichaur. **Terai** - Bahundanda, Babarpur Jaluke, Lohadabre, Ratgainya, Thure, Paruwa, Batule kurule and Aambasa Balanti.
- c) **Far Western Region (17 nos):** **Mountain** - Pantpali, Bhairabnath, Bhaunera, Goiladi and Subeda Tallo Jyula. **Hill** - Nwali, Limuda, Manekuda, Bhittesal, Dhittadi, Badhuwa, Jogijala, Dhanraskhet and Kotedigad. **Terai** - Ratipur, Bagun and Sandepani DTW

2.2 Social Development

2.2.1 WUA Institutional and Capacity Development

Out of the 420 capacity development training events originally planned for the 105 ISPs (4 per ISP), 370 had been completed by the end of the reporting period, covering: institutional development, pre-construction activities, quality control, ISF collection, resource generation and mobilization, O&M, gender empowerment, leadership development, office administration, account keeping and agriculture extension. An overview of WUA training conducted to date is summarised in **Table 4**.

Table 4 WUA Training Completed to Date

| Region | Events (No) | Participants | | | Ethnicity | |
|-------------------------------------|----------------|--------------|--------|-------|-----------|-------|
| | | Male | Female | Total | Janajati | Dalit |
| By end of 5 th Trimester | 328 | 4,950 | 3,954 | 8,904 | 1,671 | 945 |
| During 6 th Trimester | | | | | | |
| West | 21 | 238 | 133 | 371 | 106 | 36 |
| Mid-West | 16 | 239 | 216 | 455 | 16 | 50 |
| Far West | 5 | 87 | 67 | 154 | 17 | 14 |
| Subtotal | 42 | 564 | 416 | 980 | 139 | 100 |
| Total to date (No) | 370 | 5,514 | 4,370 | 9,884 | 1,810 | 1,045 |
| (%) | | 56 | 44 | 100 | 18 | 11 |

Table 5 IDF Progress on Selected Schemes

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|--------------------|----------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| <u>WEST</u> | | | | | |
| Mountain | | | | | |
| Mustang | Syang | Completed | 73 | 25 | 71 |
| Mustang | JhongPutak | Completed | 82 | 50 | 57 |
| Manang | Tilche | Completed | 64 | 50 | 29 |
| Hills | | | | | |
| Lamjung | Bangrebeshi | Completed | 73 | 50 | 29 |
| Lamjung | KesidiLamabagar | Completed | 82 | 67 | 43 |
| Gorkha | Pokharatar | Ongoing | 82 | 50 | 43 |
| Gorkha | BakrangBesi | Ongoing | 73 | 8 | 14 |
| Tanahun | BilmadeMulpaniPatne | Completed | 100 | 75 | 57 |
| Tanahun | BhanuBarahBandh | Completed | 100 | 92 | 57 |
| Kaski | Dhiprangbesi | Ongoing | 73 | 8 | 0 |
| Kaski | KotreKafaltar | Completed | 100 | 58 | 29 |
| Kaski | TalloDabake | Ongoing | 82 | 33 | 14 |
| Parbat | Aguwakhola | Completed | 73 | 33 | 43 |
| Parbat | SibdiChiluwa | Completed | 82 | 33 | 43 |
| Parbat | Gyandi | Ongoing | 82 | 58 | 43 |
| Parbat | Ratikhola | Ongoing | 82 | 67 | 43 |
| Myagdi | 2023 Sale kulo | Completed | 82 | 58 | 57 |
| Baglung | Chhisti | Completed | 73 | 50 | 43 |
| Baglung | TalloLamahiPhant | Completed | 73 | 50 | 43 |
| Syangja, Palpa | Aandhikhola (AKWUA) | Completed | 73 | 50 | 43 |
| Syangja | Kamtitar | Completed | 55 | 8 | 29 |
| Palpa | Itiyakhola | Completed | 73 | 42 | 43 |
| Palpa | Sardewa | Completed | 73 | 25 | 29 |
| Palpa | Serakhet | Completed | 73 | 25 | 29 |
| Palpa | Gairapanari Binapate | Completed | 73 | 42 | 29 |

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|---------------------------|-----------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Gulmi | WaorgatiSanichaur | Completed | 91 | 50 | 43 |
| Gulmi | Jherdikhola | Completed | 100 | 67 | 57 |
| Gulmi | Damkaphant/Sota | Completed | 100 | 67 | 43 |
| Gulmi | Rumta Aambot | Ongoing | 100 | 50 | 43 |
| Arghakhanchi | Damaidhunga | Completed | 82 | 50 | 29 |
| Arghakhanchi | KopcheDamare | Completed | 91 | 50 | 43 |
| Terai (Surface) | | | | | |
| Nawalparasi | Tokare | Completed | 82 | 58 | 43 |
| Nawalparasi | Bhedabari | Ongoing | 64 | 42 | 43 |
| Nawalparasi | Bhorlebas | Ongoing | 73 | 25 | 57 |
| Kapilvastu | MadwanSikari | Completed | 73 | 17 | 14 |
| Kapilvastu | Bharaikhola | Completed | 73 | 33 | 29 |
| Rupandehi | Itiyakulo | Ongoing | 82 | 58 | 43 |
| Rupandehi | Jhimjhime | Ongoing | 73 | 50 | 14 |
| Terai(Groundwater) | | | | | |
| Kapilvastu | Valwad DTW | Completed | 100 | 67 | 57 |
| Rupandehi | BLGWP-A-DTW | Completed | 100 | 67 | 57 |
| Rupandehi | BLGWP-B-DTW | Ongoing | 91 | 67 | 71 |
| Nawalparasi | Petbaniya DTW | Ongoing | 64 | 17 | 14 |
| <u>MID-WEST</u> | | | | | |
| Mountain | | | | | |
| Jumla | GiriKhola | Ongoing | 73 | 50 | 57 |
| Humla | Maspatal | Completed | 91 | 67 | 29 |
| Humla | Gangru Pinathang | Ongoing | 82 | 67 | 29 |
| Humla | Sarke Gad | Ongoing | 91 | 67 | 43 |
| Mugu | Libru Khola | Ongoing | 91 | 75 | 43 |
| Jumla | Laudisim | Ongoing | 91 | 67 | 58 |
| Dolpa | KharPula | Ongoing | 91 | 67 | 29 |
| Hills | | | | | |
| Surkhet | Jharkhet | Completed | 100 | 75 | 71 |
| Dailekh | Khari Gaira TaraChaur | Ongoing | 82 | 75 | 43 |
| Surkhet | Gam Khola Kholtepani | Completed | 100 | 83 | 86 |
| Surkhet | Mala Rani Sahare | Ongoing | 91 | 83 | 71 |
| Surkhet | Mathillo Bahuni Chaur | Completed | 100 | 75 | 71 |
| Salyan | Darim Jyula | Completed | 73 | 67 | 71 |
| Salyan | Tatke Kulo | Ongoing | 91 | 75 | 57 |
| Rukum | Chhipra Khola | Ongoing | 82 | 67 | 57 |
| Rukum | Sakure | Completed | 82 | 67 | 71 |
| Rukum | Chauke Takuri | Completed | 82 | 75 | 57 |
| Jajarkot | Sani Chaur | Completed | 82 | 75 | 43 |
| Jajarkot | Chaukha Rauli Jyula | Completed | 73 | 67 | 58 |
| Rolpa | Oat | Completed | 82 | 75 | 58 |
| Rolpa | Man Ghat | Completed | 82 | 75 | 58 |
| Pyuthan | Ghari Kulo | Completed | 73 | 67 | 58 |
| Pyuthan | Gartum Khola | Completed | 100 | 75 | 58 |

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|----------------------------|---------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Pyuthan | Pidalne Phant | Ongoing | 82 | 75 | 43 |
| Pyuthan | Lama Shera | Ongoing | 82 | 75 | 58 |
| Terai (Surface) | | | | | |
| Dang | Bahun Danda | Ongoing | 91 | 75 | 71 |
| Dang | Loha Dabre | Completed | 91 | 83 | 71 |
| Dang | Babarpur | Ongoing | 91 | 83 | 43 |
| Dang | Rat Gainya | Completed | 91 | 67 | 71 |
| Banke | Thure | Completed | 100 | 83 | 71 |
| Banke | Paruwa | Completed | 91 | 83 | 71 |
| Bardiya | Ambasa Balanti | Completed | 91 | 83 | 71 |
| Bardiya | Batule Kurule | Completed | 100 | 75 | 71 |
| Terai (Groundwater) | | | | | |
| Dang | Dhanauri | Ongoing | 82 | 67 | 38 |
| Dang | Bela | Completed | 82 | 75 | 50 |
| Banke | Radhapur Sitapur | Completed | 73 | 75 | 63 |
| Bardiya | Sanosri | Completed | 73 | 75 | 63 |
| Bardiya | Sanosri Taratal | Ongoing | 82 | 75 | 25 |
| <u>FAR WEST</u> | | | | | |
| Mountain | | | | | |
| Darchula | Goiladi | Completed | 100 | 42 | 75 |
| Darchula | Naktad | Ongoing | 82 | 58 | 57 |
| Darchula | PantpaliBinakoirali | Ongoing | 82 | 33 | 50 |
| Bajhang | SubedaTalloJiula | Completed | 100 | 33 | 71 |
| Bajhang | SubedaMalloJiula | Ongoing | 82 | 25 | 43 |
| Bajhang | Bhairabnath | Ongoing | 82 | 33 | 43 |
| Bajhang | Kuch | Ongoing | 100 | 58 | 86 |
| Bajhang | DeuraJupalikhet | Ongoing | 82 | 25 | 38 |
| Bajura | Bhaunera | Ongoing | 100 | 58 | 50 |
| Hills | | | | | |
| Baitadi | Limuda | Completed | 82 | 42 | 50 |
| Baitadi | Nwali | Completed | 82 | 33 | 63 |
| Baitadi | Manekuda | Completed | 82 | 25 | 38 |
| Baitadi | Kotedigad | Ongoing | 82 | 58 | 38 |
| Doti | Dhanrashkhet | Completed | 82 | 75 | 43 |
| Doti | Kalapathhreswor | Ongoing | 82 | 58 | 29 |
| Doti | Kadamandau | Ongoing | 82 | 58 | 29 |
| Dadeldhura | Bhittesal | Completed | 100 | 75 | 43 |
| Dadeldhura | Dhittadi | Completed | 82 | 42 | 63 |
| Dadeldhura | Jogijala | Completed | 100 | 67 | 38 |
| Dadeldhura | Baduwa | Completed | 100 | 67 | 38 |
| Terai (Surface) | | | | | |
| Kanchanpur | Bagun | Completed | 82 | 75 | 63 |
| Kanchanpur | Kalapani | Ongoing | 100 | 65 | 50 |

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|---------------------|--------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Terai (Groundwater) | | | | | |
| Kanchanpur | Suda DTW | Ongoing | 82 | 58 | 50 |
| Kailali | Ratipur | Completed | 100 | 67 | 75 |
| Kailali | Sandepani DTW | Ongoing | 100 | 67 | 75 |

Out of the 63 ISPs completed to date, all have completed at least 50% of Phase I IDF activities, 45 have completed at least 75% and 18 have completed 100%. As one would expect, performance in Phase II activities is behind Phase I. None of the completed ISPs have completed 100% of the Phase II activities though 47 have completed at least 50% and 21 more than 75%. The results are therefore very much in line with what has been previously reported.

Out of the 42 ISPs ongoing at the end of the reporting period, all have completed at least 50% of Phase I IDF activities and 35 have achieved at least 75%. Only 5 have completed 100% of the activities. Meanwhile, 32 have completed at least 50% of Phase II activities and 9 have completed 75%.

Typical problems include:

- Many WUAs are unfamiliar with IWRMP administrative requirements and, for example, do not maintain minutes of meetings, lists of water users or audit documents or hold meetings on a regular basis. Many young people from the villages go overseas for employment, leaving women and old people to conduct WUA activities. WUA activities (meeting, registration renewal, O&M, etc) are conducted on an ad hoc basis whenever they feel it necessary, which makes the WUA weaker and more difficult to sustain.
- Many WUAs have not yet established their offices.
- Few farmers participated in their subproject's identification and feasibility studies.
- WUAs not maintaining complete financial records.
- Lack of importance attached to the formation and functioning of subcommittees.
- A general reluctance to keep written records of decisions made by the WUA,
- (In mountain regions) many WUA members give higher priority to their work in the tourism sector than to agriculture

Another underlying problem is the lack of sociologists in DoI field offices. Only around 60% of field offices have an Association Organiser (AO) and then a single AO has to cover all subprojects in that district and not just IWRMP subprojects. With such a low level of interaction, many WUAs don't appreciate the importance of the IDF activities in helping them manage their irrigation systems in a sustainable way.

2.2.2 Gender and Vulnerable Community Development Action Plan

Gender and Vulnerable Community Development Action Plan (GVCDAP) is being implemented in the following 3 pilot subprojects: Bhorlebas (Nawalparasi), Gamkhola (Surkhet) and Ratipur (Kailali). Activities include seasonal vegetable, mushroom and off-seasonal vegetable farming programs as well as provision of seeds, materials and equipment to VGCDP groups.

IDD Nawalparasi has provided training to 25 farmers, including 10 women, with seed (potato, tomato, bean, cabbage and chilli) and provided materials, such as plastic sheeting, to the farmers of the GVCD group of Bhorlebas. After successful completion of 1st phase, they are moving ahead with next phase.

IDD Surkhet has provided training to 18 farmers (female-12, janjati-15) along with seeds and equipment for mushroom farming. As a result, the trainees have already started selling their produce in nearby local markets.

IDD, Kailali has also provided training and equipment (plastic sheeting, submersible pumps, etc) to the GVCD group of 32 beneficiaries (24 women, 19 Janajati and 6 Dalit) on off-seasonal vegetable farming in Ratipur ISP. They have started implementing this program smoothly.

2.3 Agriculture Development

After the recent elections at local, provincial and central levels, the federal government has completely restructured the organisation of agricultural services at all levels. Most of the field staff have been transferred and as a result, DADO offices are finding it more difficult to provide agriculture data related on IWRMP subprojects. DADOs have nevertheless been able to continue with some of their extension and training activities during the reporting period, as summarised in **Table 5**.

Table 5 Progress of ICWMP Activities

| Activities | Previous Total | 6 th Trimester | | | | Total to Date |
|------------------------------|----------------|---------------------------|----------|----------|-------|---------------|
| | | West | Mid-West | Far West | Total | |
| Seasonal Planning | 117 | | | | | 117 |
| FFS | 40 | 1 | 3 | 2 | 6 | 46 |
| Demonstration | 270 | 20 | 39 | 17 | 76 | 346 |
| Training | 133 | 20 | 8 | 11 | 39 | 172 |
| Income Generation | 50 | 2 | 7 | 3 | 12 | 62 |
| Seed multiplication (ha) | 291 | 8 | 9 | 6 | 23 | 314 |
| SP visits to Farmers | 33 | | | 18 | 18 | 51 |
| Coordination Meetings | 82 | 9 | 2 | 3 | 14 | 96 |
| Small Machinery Distribution | 116 | | | | | 116 |
| Cowshed Management | 75 | 1 | 27 | | 28 | 103 |
| Plastic Tunnels | 195 | 1 | 2 | 14 | 17 | 212 |
| Youth Employment | 107 | | | 1 | 1 | 108 |

Table 6 shows the participation rates in agriculture extension activities, according to gender and ethnicity. Participation of Janajati in extension activities is slightly above their representation in the community (refer **Table 9**) as a whole (25% participation, while representing 21% of the population). The equivalent figures for Dalits are 7% and 11%; showing a marked under-participation by members of this group.

Table 6 Participation in Agriculture Extension Activities

| | Previously | | 6 th Trimester | | Total to Date | |
|---------|------------|----|---------------------------|----|---------------|----|
| | No | % | No | % | No | % |
| Events | 1,215 | | 234 | | 1,449 | |
| Male | 4,549 | 50 | 727 | 45 | 5,306 | 49 |
| Female | 4,536 | 50 | 884 | 55 | 5,420 | 51 |
| Total | 9,115 | | 1,611 | | 10,725 | |
| Janjati | 2,253 | 25 | 482 | 30 | 2,735 | 25 |
| Dalit | 629 | 7 | 105 | 7 | 734 | 7 |

3 PROJECT SAFEGUARDS

3.1 Social and Environmental Management

3.1.1 Preparation of Subproject SEMP

SEMPs have now been completed and approved for all 105 subprojects. The 8 outstanding SEMP (Midwest-6, Farwest-2) were approved during this reporting period. In addition, revised SEMP of 10 ISPs (MWR-6, FWR-4) were approved at the regional workshops in Nepalgunj and Mahendranagar. Revision of SEMP focussed on removing ambiguities and irrelevant issues and incorporating any new issues which had come to the attention of field staff during implementation.

3.1.2 Rates of Compliance

Table 8 shows that 82% of SEMP mitigation measures have been fully complied with in the 63 completed ISPs that have been completed to date and it is still possible that this rate of compliance could further improve over the remaining life of the project.

Table 7 Summary of SEMP Issues for Completed ISPs

| Region / Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|--------------------------|-----------|--------------|--------------|---------------------------|------------|-------------------|
| | | | | Total | Compliant | Not yet compliant |
| West | | | | | | |
| Mountain | 2 | 3 | 19 | 25 | 15 | 10 |
| Hill | 10 | 21 | 179 | 295 | 213 | 82 |
| Terai (S) | 2 | 3 | 11 | 11 | 11 | 0 |
| Terai (GW) | 2 | 2 | 10 | 13 | 4 | 9 |
| Sub Total | 14 | 29 | 219 | 344 | 243 | 101 |
| Mid-West | | | | | | |
| Mountain | 1 | 1 | 1 | 1 | 1 | 0 |
| Hill | 6 | 12 | 65 | 115 | 107 | 8 |
| Terai (S) | 3 | 6 | 39 | 45 | 42 | 3 |
| Terai (GW) | 3 | 3 | 33 | 40 | 34 | 6 |
| Sub Total | 10 | 22 | 138 | 201 | 184 | 17 |
| Far West | | | | | | |
| Mountain | 2 | 2 | 12 | 16 | 15 | 1 |
| Hill | 3 | 8 | 53 | 88 | 87 | 1 |
| Terai (S) | 2 | 2 | 20 | 34 | 34 | 0 |
| Terai (GW) | - | - | - | - | - | - |
| Sub Total | 7 | 12 | 85 | 138 | 136 | 2 |
| Total (No) | 31 | 63 | 442 | 683 | 565 | 120 |
| (%) | | | | 100 | 82 | 18 |

In the case of the 42 ongoing subprojects, **Table 9** summaries latest status of SEMP mitigation measure implementation. To date, overall compliance is approximately 30%. Implementation of outstanding mitigation measures within the remaining period life of the project will be challenging and may have to be taken up by the GoN after 30 June.

Table 8 Summary of SEMP Issues for Ongoing ISPs

| Region / Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|--------------------------|-----------|--------------|--------------|---------------------------|------------|-------------------|
| | | | | Total | Compliant | Not yet compliant |
| West | | | | | | |
| Mountain | - | - | - | - | - | - |
| Hill | 4 | 7 | 55 | 76 | 30 | 46 |
| Terai (S) | 2 | 4 | 24 | 32 | 9 | 23 |
| Terai (GW) | 2 | 2 | 13 | 16 | 0 | 16 |
| Sub Total | 6 | 13 | 92 | 124 | 39 | 85 |
| Mid-West | | | | | | |
| Mountain | 4 | 6 | 26 | 44 | 7 | 37 |
| Hill | 5 | 6 | 35 | 55 | 20 | 35 |
| Terai (S) | 1 | 2 | 15 | 25 | 8 | 17 |
| Terai (GW) | 2 | 2 | 14 | 23 | 0 | 23 |
| Sub Total | 11 | 16 | 90 | 147 | 35 | 112 |
| Far West | | | | | | |
| Mountain | 3 | 7 | 42 | 66 | 25 | 41 |
| Hill | 2 | 3 | 7 | 7 | 0 | 7 |
| Terai (S) | 1 | 1 | 3 | 3 | 0 | 3 |
| Terai (GW) | 2 | 2 | 34 | 45 | 17 | 28 |
| Sub Total | 7 | 13 | 86 | 121 | 42 | 79 |
| Total (No) | 24 | 42 | 268 | 392 | 116 | 276 |
| (%) | | | | 100 | 30 | 70 |

3.1.3 Areas of Non-compliance

There are a number of factors which influence the implementation of SEMP mitigation measures, including:

- Concerned IDD/IDSD/GWIDDs are directly responsible for implementing all activities of subproject development, even in areas where they little experience or knowledge such as forest management, agriculture training and sanitation
- Many are lack sufficient skilled manpower and logistic resources to cater all programs of IDDs. As a result, they are unable to closely supervise the works and, for example, monitor the management of earthworks or the check the locations of social structures such as VRBs.
- Staff are transferred frequently so there little institutional knowledge retained in the IDD/GWIDD/IDSDs.
- Some delays have been caused by the late approval of the SEMP for the additional 23 ISPs approved in late 2016.

3.2 Gender and Vulnerable Communities

From **Tables 9** and **10**, it is possible to assess the representation of women, Janajati and Dali on WUA executive committees. They show that overall Janajati are somewhat under-represented in WUA while Dalit are fully represented. Female representation is approaching 33% as required by government policy.

Table 9 Demography of AF Subprojects

| | ISP (Nos) | HH (No) | Population | | | | |
|-----------------|--------------|------------|------------|---------|---------|---------|--------|
| | | | Total | Male | Female | Janjati | Dalit |
| Mountain | 19 | 3,745 | 22,924 | 11,304 | 11,620 | 1,857 | 5,166 |
| Hills | 57 | 8,888 | 60,045 | 28,913 | 31,132 | 8,883 | 6,298 |
| Terai (Surface) | 18 | 15,659 | 85,145 | 41,214 | 43,931 | 19,503 | 4,750 |
| Terai (GW) | 11 | 8,429 | 49,974 | 24,689 | 25,285 | 14,516 | 7,206 |
| Total (No) | 105 | 36,721 | 218,088 | 106,120 | 111,968 | 44,759 | 23,420 |
| Total (%) | | | 100% | 49% | 51% | 21% | 11% |

Table 10 Levels of Representation in WUA Executive Committees

| Region | No of ISPs | WUA Representatives | | | | |
|------------|---------------|---------------------|------|--------|----------|-------|
| | | Total | Male | Female | Janajati | Dalit |
| West | 42 | 468 | 325 | 143 | 128 | 34 |
| Mid-West | 38 | 424 | 280 | 144 | 76 | 51 |
| Far West | 25 | 281 | 189 | 92 | 12 | 38 |
| Total (No) | 105 | 1,173 | 794 | 379 | 216 | 123 |
| Total (%) | | 100% | 68% | 32% | 18% | 10% |

3.3 Land Acquisition and Resettlement

Land acquisition and resettlement is not a major issue in the small rehabilitation schemes being implemented under Component A of IWRMP. Nevertheless, a part of project safeguards, land donation documents of 101 subprojects have been collected to date, as shown in **Table 11**. In fact, surface water schemes have often been established for generations and the canals are treated as a common asset in the concerned villages. Rehabilitation works are confined to the canals' historically established alignments and the project only requires that all local stakeholders confirm their acceptance of the situation.

Table 11 Land Acquisition/Donation Documents Received

| Region | No of SPs | No of WUAs to have Supplied Documents | | |
|----------|-----------|---------------------------------------|---------------------------|-------|
| | | Previous | 6 th Trimester | Total |
| West | 42 | 38 | 0 | 38 |
| Mid-West | 38 | 33 | 5 | 38 |
| Far West | 25 | 25 | 0 | 25 |
| Total | 105 | 96 | 5 | 101 |

The same is true for groundwater schemes which have already been established and for which the project is only carrying out rehabilitation works. Where new DTWs are being installed, each serving an area of around 40 ha, the GoN requires the benefitting community to organise the provision of the necessary land (for DTW, header tank and distribution system) itself and provide documentary evidence to support the landowners' acceptance. In total 4,562 sqm of land has been provided in 7 new DTW clusters.

4 FINANCIAL PROGRESS

Table 12 summarises expenditure of all 105 sub projects (63 completed, 42 ongoing). During reporting period, 3 ISPs (Gangru Pinathanka, Sani chaur and Bela DTW) of the Mid-Western region were completed at a combined cost of NRs 46.7 million. Total reported cost of the 63 completed ISPs is NRs 1,294.3 million, with an overall WUA contribution of 8.43% (surface - 8.3%; groundwater - 9.1%).

Likewise **Table 13** briefs an overall expenditures to the end of the reporting period on the 42 ongoing ISPs as NRs 793.2 million; bringing the total spent to date NRs 2.09 billion spent to date which is just over 64.0% of the total approved estimates of NRs 3.26 billion.

Table 12 Financial Expenditure on Subprojects

| | End of 5 th Trimester | | | | End of 6 th Trimester | | | |
|-----------------------|----------------------------------|---------------------|-------|---------|----------------------------------|---------------------|-------|---------|
| | No | Expenditure (NRs m) | | | No | Expenditure (NRs m) | | |
| | | DoI | WUA* | Total | | DoI | WUA* | Total |
| Completed Subprojects | | | | | | | | |
| West | 29 | 571.8 | 52 | 623.8 | 29 | 571.8 | 52.0 | 623.8 |
| Mid-West | 19 | 395.2 | 40.6 | 436.0 | 22 | 439.5 | 43.2 | 482.7 |
| Far West | 12 | 173.9 | 13.8 | 187.7 | 12 | 173.9 | 13.8 | 187.7 |
| Total | 60 | 1141.0 | 106.5 | 1,247.5 | 63 | 1,185.2 | 109.1 | 1,294.3 |
| WUA Contrib (%) | | | | 8.54% | | | | 8.43% |
| Ongoing Subprojects | | | | | | | | |
| West | 13 | 161.3 | 13.6 | 174.9 | 13 | 204.9 | 18.1 | 223.0 |
| Mid-West | 19 | 215.9 | 16.4 | 232.3 | 16 | 208.5 | 17.2 | 225.7 |
| Far West | 13 | 295.4 | 15.9 | 311.3 | 13 | 323.6 | 20.8 | 344.4 |
| Total | 45 | 672.6 | 46.0 | 718.6 | 42 | 737.1 | 56.1 | 793.2 |
| Overall Total | 105 | 1813.6 | 152.5 | 1,966.1 | 105 | 1,922.3 | 165.2 | 2,087.5 |

* WUA refers to WUA Contribution

Table 13 Financial Progress of Subprojects

| | Approved Estimate (NRs m) | Expenditure to Date (NRs million) | | | Progress (%) | |
|-----------------------|---------------------------|-----------------------------------|-------|---------|----------------|----------------|
| | | DoI | WUA* | Total | Excluding WUA* | Including WUA* |
| Completed Subprojects | | | | | | |
| West | 827.9 | 571.8 | 52.0 | 623.8 | 69.1 | 75.4 |
| Mid-West | 639.1 | 439.5 | 43.2 | 482.7 | 68.8 | 75.5 |
| Far West | 246.5 | 173.9 | 13.8 | 187.7 | 70.6 | 76.2 |
| Total | 1,713.5 | 1,185.2 | 109.1 | 1,294.3 | 69.2 | 75.5 |
| Ongoing Subprojects | | | | | | |
| West | 459.2 | 204.9 | 18.1 | 223.0 | 44.6 | 48.6 |
| Mid-West | 576.0 | 208.5 | 17.2 | 225.7 | 36.2 | 39.2 |
| Far West | 513.3 | 323.6 | 20.8 | 344.4 | 63.0 | 67.1 |
| Total | 1,548.5 | 737.1 | 56.1 | 793.2 | 47.6 | 51.2 |
| Overall Total | 3,262.0 | 1,922.3 | 165.2 | 2,087.5 | 58.9 | 64.0 |

* WUA refers to WUA Contribution

5 PROJECT BENEFITS

As part of the changes being brought about by the constitutional changes in Nepal, the federal government of Nepal has substantially restructured agricultural sector. This has been very disruptive in the short-term and as a result, DADOs have been unable to provide fully comprehensive updates on all crop data for the reporting period. The data presented here under is based on FY 2016/17 for paddy and maize, and on FY 2017/18 for wheat, potato and vegetable.

5.1 Crop Production

From analysis of 41 completed ISPs, productivity of paddy, wheat and maize has shown an increase of 29%, 19% and 32%, respectively, as shown in **Table 14** and, in general, farmers have shown enthusiasm towards adopting improved production technology in their cultivation practices with the improved availability of irrigation water. However, the story is not uniform as agricultural practices are still influenced by historic practice. For example, farmers in surface water systems in the Terai achieve better maize yields than their counterparts in the hills and mountains but fall behind in paddy for two reasons. Factors that influence this will include:

- unlike in the hills and mountains, Terai farmers have a tradition of adding manure to maize in preference to paddy; and,
- Terai farmers are more likely to use improved maize varieties because seed merchants are more active in the Terai and often market directly individual farmers while hill communities tend to resist improved varieties on the basis of taste.

Not surprisingly, groundwater ISPs tend to out perform surface water ISPs in the Terai and this could be attributed to more reliable, responsive and flexible water supplies.

Table 14 Productivity of Cereal Crops in Completed Subprojects

| Ecological Belt | No of Sub-projects | Yield (t/ha) | | | | | |
|-----------------|--------------------|--------------|---------|-------|---------|-------|---------|
| | | Paddy | | Wheat | | Maize | |
| | | Base | Current | Base | Current | Base | Current |
| Mountain | 3 | 2.10 | 3.30 | 1.60 | 2.20 | 1.60 | 2.17 |
| Hill | 25 | 2.63 | 3.42 | 2.42 | 2.81 | 2.02 | 2.53 |
| Terai (S) | 9 | 2.69 | 3.29 | 1.96 | 2.24 | 2.01 | 2.80 |
| Terai (GW) | 4 | 3.15 | 4.03 | 1.88 | 2.73 | 2.04 | 3.14 |
| Average | 41 | 2.68 | 3.45 | 2.21 | 2.63 | 1.99 | 2.62 |
| Increase (%) | | | 29 | | 19 | | 32 |

Table 15 Productivity of Cash Crops in Completed Subprojects

| Ecological Belt | No of ISPs | Yield (t/ha) | | | |
|-----------------|------------|--------------|---------|------------|---------|
| | | Potato | | Vegetables | |
| | | Base | Current | Base | Current |
| Mountain | 3 | 7.40 | 16.83 | 6.67 | 12.59 |
| Hill | 25 | 9.05 | 14.08 | 8.50 | 13.62 |
| Terai (S) | 9 | 8.38 | 13.11 | 8.23 | 11.91 |
| Terai (GW) | 4 | 7.39 | 13.25 | 6.00 | 12.38 |
| Average | 41 | 8.62 | 13.99 | 8.06 | 13.05 |
| Increase (%) | | | 62 | | 62 |

Similarly, analysis of cash crops in the 41 completed ISPs, **Table 15** indicates that productivity of potatoes and vegetables have both increased by 62%. Amongst these, productivity of potatoes is noticeably higher in mountains and falls with decreasing altitude. This is because potatoes are generally better suited to cooler climates and mountain communities have also shown themselves more open to the adoption of new varieties.

Overall, cropping intensities in the 41 completed ISPs completed and surveyed here show that rehabilitation of the irrigation systems has contributed to an increase 29% to 204%, see **Table 16**. Most farmers are now cultivating at least 2 crops per year and there is scope to increase this further, except perhaps in the mountain areas where cropping is limited by low temperatures in the winter months.

Table 16 Cropping Intensity in Completed Subprojects

| Ecological Belt | No of ISPs | Cropping Intensity (%) | |
|-----------------|------------|------------------------|---------|
| | | Baseline | Current |
| Mountain | 3 | 109 | 147 |
| Hill | 25 | 166 | 220 |
| Terai (S) | 9 | 151 | 189 |
| Terai (GW) | 4 | 157 | 183 |
| Average | 41 | 158 | 204 |
| Increase (%) | | | 29 |

What is less clear is why cropping intensities in both groundwater and surface water ISPs in the Terai lag behind those in the hills. In the case of surface water ISPs, it is possible be that the irrigation duties (available water per unit area of land) are lower because there are fewer physical limits on how far a command area can be extended and the tail-end areas are therefore more susceptible to declining water flows in the winter and spring. It is also possible that the proximity to India and cheaper Indian agricultural produce depresses prices in the Terai and therefore the incentive to cultivate.

5.2 Beneficiary Income

Table 17 shows beneficiaries' financial returns of cereal crops in 41 of the subprojects completed to date. In the mountain ISPs, the cereal crop offering the best return is paddy. On the other hand, maize appears to be the profitable crop in hills and wheat in the Terai. Overall, maize seems most profitable.

Table 17 Financial Returns of Cereal Crops in Completed Projects

| Ecological Belt | No of ISPs | Income and Costs (NRs/ha) | | | | | | | | |
|-----------------|------------|---------------------------|--------------------|------------|--------------|--------------------|------------|--------------|--------------------|------------|
| | | Paddy | | | Wheat | | | Maize | | |
| | | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income |
| Mountain | 3 | 148,500 | 85,000 | 63,500 | 81,133 | 53,000 | 28,133 | 82,266 | 55,300 | 26,966 |
| Hill | 25 | 118,753 | 79,813 | 38,940 | 85,110 | 55,324 | 29,786 | 81,638 | 51,572 | 30,066 |
| Terai (S) | 9 | 101,555 | 70,989 | 30,566 | 78,744 | 51,922 | 26,822 | 73,405 | 48,656 | 24,749 |
| Terai (GW) | 4 | 94,949 | 73,675 | 21,274 | 73,975 | 54,420 | 24,505 | 88,924 | 59,273 | 24,701 |
| Average | 41 | 114,832 | 77,657 | 37,175 | 82,335 | 54,319 | 28,499 | 80,587 | 51,956 | 28,149 |

In all areas, financial returns per hectare from cash crops like potatoes and vegetables are significantly higher than for cereal crops. Mountain farmers achieve highest returns from potato, whereas hill and Terai farmers can expect better returns from vegetables. Overall, vegetable farming offers the best returns but water availability usually limits the areas that farmers can plant with cash crops. The difference in returns between cereal and cash crops is less marked for groundwater-irrigated subprojects where the farmers have to balance the higher cost of irrigation water with better year-round availability of supply.

Table 18 Financial Returns of Cash Crops in Completed Projects

| Ecological Belt | No of ISPs | Income and Costs (NRs/ha) | | | | | |
|-----------------|------------|---------------------------|--------------------|------------|--------------|--------------------|------------|
| | | Potato | | | Vegetable | | |
| | | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income |
| Mountain | 3 | 302,663 | 115,000 | 187,663 | 262,667 | 111,000 | 151,667 |
| Hill | 25 | 284,044 | 139,251 | 144,794 | 298,738 | 143,325 | 155,412 |
| Terai (S) | 9 | 285,676 | 170,122 | 115,554 | 287,876 | 134,556 | 153,320 |
| Terai (GW) | 4 | 198,459 | 140,185 | 58,274 | 280,098 | 154,040 | 126,058 |
| Average | 41 | 277,415 | 144,344 | 133,071 | 291,895 | 140,080 | 151,815 |

6 MONITORING AND EVALUATION

In order to assess the service delivery of the IWRMP sub projects, simple meta card tool has been adopted to collect beneficiary farmer's view in terms of (i) improved water availability (ii) increase cropped area and (iii) WUA's performance. In this context available data from 23 completed surface irrigation ISPs covering all regions and ecological belts have been analysed to reveal the farmers' perception of how irrigation performance has been influenced by the project's interventions.

Altogether 623 respondents (Mountain-39, Hill-450, Terai-134): (Head-178, Middle-243, Tail-202) have taken part in the meta card surveys to date. To date, no surveys have yet been carried out in any of the groundwater subprojects.

6.1 Irrigation Performance

Table 19 summarises the farmers' perceptions of water availability through all three cropping seasons. In general, the biggest benefits noticed by farmers is in the summer and winter growing seasons when often well over 80% of farmers have experienced an increase in irrigation water supplies. Fewer farmers have experienced increased supplies in the spring season (particularly in the Far West and on the Terai) but this is to be expected since overall water availability is at its most limited at this time of year.

Table 19 Percentage of Tail-end Farmers Reporting Improved Water Availability

| | No of ISPs | | | Percentage Receiving More Water in | | |
|-----------------|------------|-----------|----------------------|------------------------------------|--------|--------|
| | Total | Completed | Completed & Surveyed | Summer | Winter | Spring |
| West | | | | | | |
| Mountain | 3 | 3 | 0 | | | |
| Hill | 28 | 21 | 9 | 86 | 81 | 84 |
| Terai (S) | 7 | 3 | 2 | 100 | 40 | 0 |
| Terai (GW) | 4 | 2 | 0 | | | |
| Mid-West | | | | | | |
| Mountain | 7 | 1 | 0 | | | |
| Hill | 18 | 12 | 5 | 100 | 96 | 88 |
| Terai (S) | 8 | 6 | 2 | 100 | 96 | 84 |
| Terai (GW) | 5 | 3 | 0 | | | |
| Far West | | | | | | |
| Mountain | 9 | 2 | 2 | 86 | 86 | 57 |
| Hill | 11 | 8 | 2 | 83 | 77 | 9 |
| Terai (S) | 3 | 2 | 1 | 60 | 40 | 0 |
| Terai (GW) | 2 | 0 | 0 | | | |
| All | | | | | | |
| Mountain | 19 | 6 | 2 | 86 | 86 | 57 |
| Hill | 57 | 41 | 16 | 90 | 85 | 76 |
| Terai (S) | 18 | 11 | 5 | 92 | 62 | 34 |
| Terai (GW) | 11 | 5 | 0 | | | |

Similarly, **Table 20** summarises how many tail-end farmers have been able to increase their cropped areas in each season as a result of the rehabilitation works in their areas. When reading these figures, it should be remembered that they document simple yes/no responses to questions and not, for example, what percentage increase there has been in cropped areas. In some cases, the sample sizes are also still relatively small and consequently, results can vary widely. In surface systems in the Terai, for example, reports of increase water supplies vary from 60% to 100% between the regions in the summer season and

0% to 84% in the spring. Overall, however, the results confirm those in **Table 19**, with the biggest increase in cropped areas being experienced in the summer and winter seasons.

Table 20 Percentage of Tail-end Farmers Reporting Increased Cropped Areas

| | No of ISPs | | | Percentage Cropping More Land | | |
|-----------------|------------|-----------|----------------------|-------------------------------|--------|--------|
| | Total | Completed | Completed & Surveyed | Summer | Winter | Spring |
| West | | | | | | |
| Mountain | 3 | 3 | 0 | | | |
| Hill | 28 | 21 | 9 | 80 | 66 | 81 |
| Terai (S) | 7 | 3 | 2 | 100 | 0 | 0 |
| Terai (GW) | 4 | 2 | 0 | | | |
| Mid-West | | | | | | |
| Mountain | 7 | 1 | 0 | | | |
| Hill | 18 | 12 | 5 | 98 | 89 | 80 |
| Terai (S) | 8 | 6 | 2 | 100 | 100 | 100 |
| Terai (GW) | 5 | 3 | 0 | | | |
| Far West | | | | | | |
| Mountain | 9 | 2 | 2 | 71 | 71 | 43 |
| Hill | 11 | 8 | 2 | 77 | 69 | 11 |
| Terai (S) | 3 | 2 | 1 | 60 | 40 | 0 |
| Terai (GW) | 2 | 0 | 0 | | | |
| All | | | | | | |
| Mountain | 19 | 6 | 2 | 71 | 71 | 43 |
| Hill | 57 | 41 | 16 | 85 | 74 | 72 |
| Terai (S) | 18 | 11 | 5 | 92 | 48 | 40 |
| Terai (GW) | 11 | 5 | 0 | | | |

6.2 Beneficiary Satisfaction Surveys

The results given **Table 21** relate to the farmers' rating of their respective WUAs' performance in terms of (i) water entitlements, (ii) water availability to meet crop needs, (iii) irrigation scheduling and communication, and (iv) overall WUA performance. Although there is some variation between ecological belts (farmers from the hills areas appear to receive a better overall service from their WUAs), results from head, middle and tail are generally of the same order of magnitude. This suggests that regardless of whatever weaknesses persist in the WUAs, the benefits of their work are being distributed equitably.

Table 21 Farmer Ratings of WUA Performance

| Percentage of Farmers Reporting | Location of Respondents' Land | | |
|--|-------------------------------|--------|------|
| | Head | Middle | Tail |
| Mountain | | | |
| They receive all the irrigation water they feel they are entitled to | 57 | 64 | 57 |
| They receive their irrigation water when their crops need it | 57 | 68 | 57 |
| They always know when they will receive their irrigation water | 43 | 72 | 71 |
| The performance of the WUA is Good/Acceptable | 71 | 96 | 72 |

| Percentage of Farmers Reporting | Location of Respondents' Land | | |
|--|---|--------|------|
| | Head | Middle | Tail |
| Hill | | | |
| They receive all the irrigation water they feel they are entitled to | 94 | 88 | 89 |
| They receive their irrigation water when their crops need it | 89 | 88 | 88 |
| They always know when they will receive their irrigation water | 90 | 87 | 86 |
| The performance of the WUA is Good/Acceptable | 97 | 98 | 99 |
| Terai (Surface) | | | |
| They receive all the irrigation water they feel they are entitled to | 85 | 71 | 83 |
| They receive their irrigation water when their crops need it | 85 | 51 | 73 |
| They always know when they will receive their irrigation water | 87 | 65 | 93 |
| The performance of the WUA is Good/Acceptable | 98 | 90 | 95 |
| Terai (Groundwater) | | | |
| They receive all the irrigation water they feel they are entitled to | No surveys have yet been carried out in groundwater subprojects | | |
| They receive their irrigation water when their crops need it | | | |
| They always know when they will receive their irrigation water | | | |
| The performance of the WUA is Good/Acceptable | | | |
| All | | | |
| They receive all the irrigation water they feel they are entitled to | 88 | 82 | 85 |
| They receive their irrigation water when their crops need it | 85 | 78 | 82 |
| They always know when they will receive their irrigation water | 85 | 81 | 86 |
| The performance of the WUA is Good/Acceptable | 95 | 96 | 96 |

7 PROJECT MANAGEMENT

7.1 Project Coordination

During this reporting period, a PICC meeting was held in early March 2018, where re-appraisal documents of 3 subprojects in the Far Western Region were approved after being reviewed by the TA Team.

At central level, the Office of the Project Director (OPD) and the TA Team held a total of 4 meetings to discuss on (i) progress of subprojects and discuss how problems with particular subprojects may be mitigated, (ii) preparation of main Project Completion Report, (iii) M&E activities, and (iv) preparation of documents required for the WB mission.

At regional level, the regional TA Teams and regional stakeholders aim to hold coordination meetings at least once per month. This schedule was met with 10 regional and 29 IDD/IDSD/GWIDD/DADO meetings held.

7.2 Technical Assistance Team

7.2.1 Mobilisation

19 experts (5 part time and 14 full time) of the TA Team were mobilised during this reporting period. Approximately 3.3 international and 63.1 national person-months were used by key experts during the reporting period. This brings the total number of person months used to the end of the reporting period to 364.1 (international 12.1 and national 352.0) out of a total of 427.5 as per the revised contract signed during this trimester (see **Table 23**).

7.2.2 Activities

A summary of the activities of the TA Team during the reporting period is given in **Table 22**. These activities are based on the action plans of TA team, with particular emphasis on: (i) irrigation service fees, (ii) project completion reports, (iii) implementation of GVCDAF (iv) SEMP compliance, (v) monitoring and evaluation, (vi) use of meta cards and (vii) infrastructure, institutional and agriculture related data collection. The TA Team's action plans, with updated achievements to date, are given in **Annex 6**.

Table 22 TA Team Activities in Reporting Period

| Position and Name | Activities |
|--|--|
| Management | |
| Team Leader Nick LOCKETT | Submitted 5th trimester progress report along with ISF collection plan and PCR of 9 AF sub projects to OPD. Modified reporting template with inclusion of tables related to farmer's satisfaction on metacard basis. Participated in two regional workshops organised by OPD in Nepalgunj and Mahendranagar, highlighting the revised data formats and matters related to successful completion of IWRMP project by June 2018. Visited Suda DTW regarding conjunctive use. |
| Deputy Team Leader Sudhir Man BAISYAT | Visited Thure ISP to assess ways of rectifying the damaged headworks. Took part in monthly meetings with OPD where progress and issues of AF sub projects and preparation of ToR for project next to IWRMP were also discussed. Coordinated and compiled 5th trimester report. Participated in the abovementioned regional workshops, where key issues on AF subprojects were highlighted. |

| Position and Name | Activities |
|---|---|
| Central Unit | |
| Irrigation Design & Construction Engineer 1 Shambhu P. MANANDHAR | Involved in verifying and processing of data and information received from regional TA team related to infrastructure work progress. Took part in monthly meetings with OPD. Participated in the abovementioned regional workshops, where data and information requirements for reporting purpose were addressed. Reviewed re-appraisal documents for Bhaunera, Kadamandu and Kalapathereswor ISPs. |
| Agriculturalist 1 Madhav Lal SHRESTHA | Involved in verifying and processing of agriculture data received from regional TA team. Took part in monthly meetings with OPD. Participated in two regional workshops, where achievements of some completed AF subprojects and relevancy of ADP were highlighted. |
| Training Management & Sociologist 1 Madhav P. JOSHI | Visited a total of 13 ISPs to review progress and update project records related to IDF activities, ISF collection plans and training courses for WUA capacity building. Participated in two regional workshops, where an overview on issues of GVCDAP in IWRMP was highlighted. Prepared reports of 3 workshops. Assisted OPD for approving 12 SEMP (New-8, Revised-4) during workshop. |
| Western Regional Unit | |
| Irrigation Design & Construction Engineer 2 Tark B. BUDHATHOKI | Visited 10 ISPs to discuss progress/problems with IDD officials & WUAs as well as to review progress, data collection, quality control, preparation of 8 PCRs and 10 ISF collection plans and WUA awareness trainings. Farmers satisfaction data from 13 ISPs were collected using meta cards. |
| Agriculturalist 2 Dr. Madhav JOSHI | Took part in site visit of 10 ISPs including interaction with IDD & DADO officials and WUAs and review progress, data collection, PCR preparation and agriculture awareness trainings. Farmers satisfaction data from 13 ISPs were collected using meta cards. |
| Training Management & Sociologist 2 Ram SATYAL | Visited a total of 10 ISPs to assess progress with IDF and implementation of social safeguards. Involved in collection and updating of WUA institutional data. Also contributed in preparation of ISF plans and PCRs of some ISPs. Farmers satisfaction data from 13 ISPs were collected using meta cards. |
| Mid-Western Regional Unit | |
| Irrigation Design & Construction Engineer 3 Tung Raj PATHAK | Visited 16 ISPs to interact with IDD officials & WUAs and to review progress with data collection, quality improvement, preparation of ISF collection plans, PCR preparation and WUA awareness trainings. Participated in regional workshop organised by OPD at Nepalgunj. Farmers satisfaction data from 3 ISPs were collected using meta cards. |
| Agriculturalist 3 Ramanand KURMI | Conducted field visit of 2 ISPs to interact with concerned IDD, DADO officials & WUAs and to review progress, data collection, PCR preparation and awareness trainings. Took part in the regional workshop organised at Nepalgunj. Farmers satisfaction data from 2 ISPs were collected using meta cards. |
| Training Management & Sociologist 3 Arjun Kumar ALE | 21 ISPs were visited to review progress, IDF data collection, documents relating to voluntary land donations, preparation of ISF collection plans, PCR preparation and WUA capacity training. Participated in regional progress review workshop organised at Nepalgunj. Farmers satisfaction data from 3 ISPs were collected using meta cards. |

| Position and Name | Activities |
|--|---|
| Far Western Regional Unit | |
| Irrigation Design & Construction Engineer 4 Harish Chandra P RAUNIYAR | Visited 14 ISPs to interact with IDD officials & WUAs and to review progress, data collection, quality control, preparation of ISF collection plans, PCR preparation and WUA awareness trainings. Reviewed re-appraisal documents of 3 ISPs (Doti-2, Bajura-1). Participated in regional workshop organised by OPD at Mahendranagar. |
| Agriculturalist 4 Airley VAZIRSINGH | Performed field visit of 15 ISPs to interact with IDD & DADO officials & WUAs and to review progress, data collection, PCR preparation and awareness training. Took part in regional workshop organised by OPD at Mahendranagar. |
| Training Management & Sociologist 4 Nar Bahadur SAWOD | Conducted visit of 14 ISPs to review progress, IDF data collection, preparation of ISF collection plans, PCR preparation and WUA trainings. Participated in regional workshop at Mahendranagar. |
| Specialists | |
| Economics, Monitoring and Evaluation Surendra K SUBEDI | Modified user-friendly sample meta-cards developed to assess farmer satisfaction in terms of water availability, WUA's performance, seed application etc. Reviewed and analysed data received from regional TA teams. Participated in two regional workshops, where importance of database for M&E and application of meta cards were presented. Analysed meta cards data received from two regional TA team. |
| Environment Dr Vimal Narayan P GUPTA | Visited 20 ISPs to verify and update progress on SEMP issues and gave suggestions on suitable measures in case of emerging issues. Participated in the regional workshop at Nepalgunj, where overview on present environmental issues in IWRMP. Assisted OPD in reviewing 8 SEMPs (New-6, Revised-2). |
| MIS/GIS Sarbagya Man BAJRACHARYA | Studied user-friendly ways to use EDMS system instead of GMIS. |
| Hydrogeologist Siddhi Pratap KHAN | Visited Purbi Rautela ISP of Kanchanpur and examined conjunctive use with Suda DTWs. Involved as research person in some trainings conducted for GW field staffs. Also visited Sanoshree DTW to monitor its performance after installation of voltage stabilizers. Participated in two regional workshops, where critical issues, shortcomings and possible measures during DTW development were discussed. |
| Electromechanical Engineer | Position terminated |
| Procurement Damodar BHATTARAI | Prepared a flow diagram and PowerPoint presentation slides covering the procurement process of goods and services in case of IWRMP. |

7.2.3 Deliverables

In addition to field visit reports and ISF collection plans, the reports delivered by the TA during the reporting period are listed in **Table 23**.

Table 23 Reports Delivered by TA Team

| Title | Submission |
|--------------------------------------|-----------------------|
| Progress Reports | |
| Annual-cum-Trimester Report | November 2017 (final) |
| 5 th Trimester Report | February 2018 (draft) |
| Subproject Completion Reports | |
| Aguwa Khola | November 2017 |
| Mathillo Bahunichaur | January 2018 |

| Title | Submission |
|---|--------------------------|
| Bharai Khola | January 2018 |
| Madawan Sikari | January 2018 |
| Gairapanari Binpate | January 2018 |
| Itaya Khola | January 2018 |
| Sardewaphant | January 2018 |
| Serakhet | January 2018 |
| Damaidhunga | February 2018 |
| Kopche Damare | February 2018 |
| Other | |
| Discussion note on implementing the follow-on project to IWRMP | November 2017 |
| Terms of Reference for Social Mobiliser | November 2017 |
| Marketing Review Report for Gyandi ISP | November 2017 |
| Marketing Review Report for Bhorlebas ISP | November 2017 |
| Electromechanical Manual | November 2017 (re-issue) |
| Terms of Reference for ESMF Consultants for IWRMP follow-on project | December 2017 |
| Briefing paper for WB Mission | December 2017 |
| Report on Analysis of DTWs for four GW ISPs | January 2018 |
| Consolidated Reference Data on OS and AF Subprojects | February 2018 |

7.3 Monitoring, Evaluation and Reporting

In compiling its reports, the TA Team is heavily dependent on the work and cooperation of DoI field offices and DADOs as well as the field data that it collects during field visits. New constitutional arrangements has brought significant changes in the structure of the DoA which has disrupted data collection during the reporting period.

During this trimester, the TA also systematised and fine-tuned the meta cards which had been developed to assess the how the farmers perceive the benefits of the project's interventions in their respective irrigation schemes. By the end of the reporting period, meta card surveys had been carried out in 23 completed ISPs. Emphasis to date has been on ISPs which were completed at least 12 months previously in order that the farmers can base their answers on one full year's operation of the rehabilitated system.

7.4 DoI Capacity Development

During this trimester, as a part of capacity development of DoI field staff, regional workshops were organised in Nepalgunj and Mahendranagar. The Nepalgunj workshop took place on 26 to 28 January, 2018 and was attended by 67 participants, including the Secretary of the MoI, DG, DDGs, Directors, chiefs & accountants of respective IDD/IDSD/GWIDD from the Mid-Western Region, as well as senior officers from the DoA and MoI and TA team members. The workshop focussed on subproject progress and discussion of specific issues with their possible mitigation measures. During the presentations, the TA made presentation on data collection, gender and vulnerable communities development, environmental management, groundwater development, agricultural development in the context of setting priorities for the remaining life of the project.

A similar workshop was organised at Mahendranagar 22 to 24 February 2018 to address progress and issues of subprojects under FWR. 49 participants attended the workshop though the Secretary, DG and DDGs were unable to attend.

Table 24 TA Team Inputs

| Name | Position | To End of 5 th Trimester | 6 th Trimester | | | | | Total | Total to Date | Revised Contract | Balance |
|---|-------------------|-------------------------------------|---------------------------|-----|-----|-----|-----|-------|---------------|------------------|---------|
| | | | Nov | Dec | Jan | Feb | Mar | | | | |
| International | | | | | | | | | | | |
| L Rabbani / Nick Lockett | Team Leader | 8.7 | 0.5 | 0.5 | 0.8 | 1.0 | 0.5 | 3.3 | 12.1 | 14.9 | 2.9 |
| <i>Total International</i> | | | 0.5 | 0.5 | 0.8 | 1.0 | 0.5 | 3.3 | 12.1 | 14.9 | 2.9 |
| National – Central TA | | | | | | | | | | | |
| Sudhir Man Baisyat | Deputy TL | 18.9 | 0.5 | 1.0 | 1.0 | 0.9 | 0.5 | 3.9 | 22.8 | 26.3 | 3.6 |
| Shambhu P. Manandhar | Irrigation Eng 1 | 20.2 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 24.2 | 27.8 | 3.5 |
| Madhav Lal Shrestha | Agriculturist 1 | 19.7 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 23.2 | 25.2 | 2.0 |
| Madhav P. Joshi | TM- Sociologist 1 | 20.5 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 24.5 | 28.0 | 3.5 |
| Shiva Kr./Surendra Subedi | Economist/M&E | 12.4 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 16.4 | 20.0 | 3.6 |
| Dr. Vimal Narayan P. Gupta | Environment | 12.9 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 16.9 | 19.0 | 2.1 |
| Sarbagya Man Bajracharya | MIS/GIS | 6.6 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 6.9 | 11.9 | 5.1 |
| Siddhi Pratap Khan | Hydrogeologist | 11.3 | 0.5 | 0.3 | 0.7 | 1.0 | 0.5 | 3.0 | 14.3 | 17.0 | 2.7 |
| Dhruba Singh Nepali | Electro-Mech Eng | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.3 | 0.2 |
| Damodar Bhattarai | Procurement | 2.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 | 2.4 | 4.0 | 1.7 |
| <i>Total of Central</i> | | | 3.7 | 6.3 | 6.9 | 6.9 | 3.5 | 27.3 | 153.7 | 181.7 | 28.0 |
| National – Western Regional TA | | | | | | | | | | | |
| Tark B. Budhathoki | Irrigation Eng 2 | 20.1 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 24.1 | 27.6 | 3.6 |
| Dr. Madhav Joshi | Agriculturist 2 | 17.5 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 21.5 | 25.0 | 3.5 |
| Satya/Ram Satyal | TM- Sociologist 2 | 13.0 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 17.0 | 21.0 | 4.0 |
| <i>Total of Western</i> | | | 1.5 | 3.0 | 3.0 | 3.0 | 1.5 | 12.0 | 62.5 | 73.6 | 11.1 |
| National – Mid-Western Regional TA | | | | | | | | | | | |
| Tung Raj Pathak | Irrigation Eng 3 | 17.8 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 21.7 | 25.2 | 3.5 |
| Ramanand Kurmi | Agriculturist 3 | 20.5 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 24.5 | 28.0 | 3.5 |
| Arjun Kumar Ale | TM- Sociologist 3 | 16.5 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 20.5 | 24.0 | 3.5 |
| <i>Total of Mid-Western</i> | | | 1.5 | 3.0 | 3.0 | 3.0 | 1.5 | 12.0 | 66.7 | 77.2 | 10.5 |

| Name | Position | To End of 5 th Trimester | 6 th Trimester | | | | | Total to Date | Revised Contract | Balance | |
|------------------------------------|-------------------|-------------------------------------|---------------------------|------|------|------|-----|---------------|------------------|---------|-------|
| | | | Nov | Dec | Jan | Feb | Mar | | | | Total |
| National – Far Western Regional TA | | | | | | | | | | | |
| Harish Chandra P. Rauniyar | Irrigation Eng 4 | 17.8 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 21.7 | 25.2 | 3.5 |
| AirleyVazirsingh | Agriculturist 4 | 20.5 | 0.5 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 24.5 | 28.0 | 3.5 |
| Nar Bahadur Sawod | TM- Sociologist 4 | 19.0 | 0.4 | 1.0 | 1.0 | 1.0 | 0.5 | 4.0 | 22.9 | 26.9 | 4.0 |
| Total of Far Western | | 57.3 | 1.4 | 3.0 | 3.0 | 3.0 | 1.5 | 12.0 | 69.1 | 80.1 | 11.0 |
| Grand Total | | 298.3 | 8.6 | 15.8 | 16.7 | 16.9 | 8.5 | 66.4 | 364.1 | 427.5 | 63.5 |

8 KEY ISSUES

The key issues which the TA Team would like to bring to the attention of the OPD are as follows:

- By 15 March 2018, three subprojects were reporting progress on rehabilitation works below 50% and a further 16 were below 65%. Particular attention needs to be paid to these to ensure that all subprojects are completed by 30 June 2018.
- Quality of construction and development of tube wells is of concern, arising as it does from a lack of adequately trained staff in GWIDDs. As a result, GW ISPs often fail to supply irrigation water to the whole of the command area included in their respective DFSRs. Not only does this mean that the full benefits described in the DFSR will not be realised, but that some farmers may also have to be reimbursed their contributions.
- Due to a lack of sociologists and logistical support in DoI field offices, progress on IDF has fallen behind physical progress in all subprojects to a greater or lesser extent. As a result, many WUAs don't appreciate the value of IDF activities and some don't even have formal agreements with their local DoI field office covering the rehabilitation works already being implemented.
- Reorganisation of GoN agricultural services in the wake of new federal constitution has continued to disrupt both extension services and data collection activities.
- Progress on SEMP activities continues to lag behind that of main construction activities. Administrative and contractual separation of SEMP works from main irrigation infrastructure works tends to result in their receiving less of the DoI field offices' limited manpower resources.

ANNEX 1

INFRASTRUCTURE DEVELOPMENT

List of Completed Sub-projects
6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Amount in '000 NRs.

| SN | District | Name of Sub-project | PICC Approved | | Actual developed CA (ha) | Completion date | Completed End of 5th Trim (15 Nov. 2017) | | | | During 6th trim | | Completion Status End of 6th trim | | | | | | | | | | Financial | |
|----------------------------------|----------------|----------------------|---------------|-------------|--------------------------|-----------------|--|---------|----------------|-----------------------|-----------------|---------|-----------------------------------|------------|-----------------------|-------|------------------------|-------------------------|----------------|-------|--|--|-----------|--|
| | | | CA (ha) | PICC Amount | | | Nos | CA (ha) | Total Estimate | Total Completion Cost | Nos | CA (ha) | Up to 6th trim (15 March 2018) | | | | WUA Contri. Evaluat ed | WUA Exclu. Estimate (%) | WUA WUA Contri | | | | | |
| | | | | | | | | | | | | | Expen Dol | WUA contri | Total Completion Cost | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | Western Region | | | | | | | | | | | | | | | | | | | | | | | |
| | Mountain | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Mustang | Syang (Re-appraised) | 42 | 14,238 | 42 | July 2016 | 1 | 42 | 14,238 | 13,348 | | | | | | | | | | | | | | |
| 2 | Mustang | Jhong Putak | 50 | 21,895 | 50 | Nov.2017 | 1 | 50 | 19,616 | 11,595 | | | | | | | | | | | | | | |
| 3 | Manang | Tilche | 25 | 9,992 | 25 | July 2017 | 1 | 25 | 9,992 | 7,909 | 1 | 25 | 9,992 | 7,159 | 750 | 9,49 | 71.64 | 79.15 | 59.11 | 79.15 | | | | |
| total of Mountain-West- 3 (Nos.) | | | 117 | 46,125 | 117 | | 3 | 117 | 43,846 | 32,852 | - | 3 | 117 | 43,846 | 29,535 | 3,318 | 10.10 | 67.36 | 74.93 | 74.93 | | | | |
| | Hill | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Lamjung | Bangrebeshi | 75 | 20,376 | 75 | July 2017 | 1 | 75 | 20,307 | 17,572 | | 1 | 75 | 20,307 | 15,916 | 1,657 | 9,43 | 78.38 | 86.54 | 86.54 | | | | |
| 5 | Lamjung | Kesidi Lamabagar | 25 | 8,708 | 25 | July 2017 | 1 | 25 | 8,708 | 6,406 | | 1 | 25 | 8,708 | 6,180 | 226 | 3,53 | 70.97 | 73.57 | 73.57 | | | | |
| 6 | Tanahun | Bilmade Mulpani | 45 | 15,697 | 45 | July 2015 | 1 | 45 | 15,695 | 13,891 | | 1 | 45 | 15,695 | 13,457 | 434 | 3,13 | 85.74 | 88.51 | 88.51 | | | | |
| 7 | Tanahun | Bhanu Barah | 40 | 13,985 | 40 | July 2016 | 1 | 40 | 13,985 | 11,655 | | 1 | 40 | 13,985 | 11,231 | 424 | 3,64 | 80.31 | 83.34 | 83.34 | | | | |
| 8 | Kaski | Kotre Kafaltar | 38 | 15,291 | 38 | July 2017 | 1 | 38 | 15,291 | 11,506 | | 1 | 38 | 15,291 | 10,471 | 1,035 | 8,99 | 68.48 | 75.25 | 75.25 | | | | |
| 9 | Parbat | Aguwa khola | 35 | 11,917 | 35 | July 2015 | 1 | 35 | 11,917 | 9,006 | | 1 | 35 | 11,917 | 8,165 | 841 | 9,34 | 68.51 | 75.57 | 75.57 | | | | |
| 10 | Parbat | Sibdi Chiluwa | 37 | 15,352 | 37 | July 2017 | 1 | 37 | 15,349 | 9,371 | | 1 | 37 | 15,349 | 8,364 | 1,007 | 10,75 | 54.49 | 61.05 | 61.05 | | | | |
| 11 | Myagdi | 2023 Sale kulo | 33 | 13,148 | 33 | July 2017 | 1 | 33 | 12,788 | 7,852 | | 1 | 33 | 12,788 | 7,402 | 450 | 5,73 | 57.88 | 61.40 | 61.40 | | | | |
| 12 | Baglung | Chhisti | 52 | 14,532 | 52 | July 2016 | 1 | 52 | 14,532 | 11,487 | | 1 | 52 | 14,532 | 10,607 | 880 | 7,66 | 72.99 | 79.04 | 79.04 | | | | |
| 13 | Baglung | Tallo Lamahi Phant | 38 | 14,380 | 38 | Oct 2016 | 1 | 38 | 14,380 | 10,005 | | 1 | 38 | 14,380 | 9,660 | 346 | 3,46 | 67.17 | 69.58 | 69.58 | | | | |

List of Completed Sub-projects
6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Amount in '000 NRs.

| SN | District | Name of Sub-project | PICC Approved | | Actual developed CA (ha) | Completion date | Completed End of 5th Trim (15 Nov. 2017) | | | | During 6th trim | | Completion Status End of 6th trim | | | | | | | | WUA Contri. Evaluated expenditure (%) | Financial Progress wrt Estimate (%) | |
|--------------------------------|----------------|-----------------------|---------------|-------------|--------------------------|-----------------|--|---------|----------------|-----------------------|-----------------|---------|-----------------------------------|-----------|------------|-----------------------|-------------|-------------------|-------------------|-------|---------------------------------------|-------------------------------------|--|
| | | | CA (ha) | PICC Amount | | | Nos | CA (ha) | Total Estimate | Total Completion Cost | Nos | CA (ha) | Total Estimate | Expen Dol | WUA contri | Total Completion Cost | WUA Contri. | Exclu. WUA Contri | Inclu. WUA Contri | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Syangja, Palpa | Aandhi khola (AKWUA) | 330 | 59,697 | 330 | July 2016 | 1 | 330 | 59,696 | 49,805 | | | 1 | 330 | 59,696 | 45,345 | 4,460 | 49,805 | 8.95 | 75.96 | 83.43 | | |
| 15 | Syangja | Kamtitar | 32 | 16,743 | 32 | July 2017 | 1 | 32 | 15,769 | 13,121 | | | 1 | 32 | 15,769 | 11,903 | 1,219 | 13,121 | 9.29 | 75.48 | 83.21 | | |
| 16 | Palpa | Itiya khola | 29 | 9,018 | 29 | June 2015 | 1 | 29 | 9,018 | 7,156 | | | 1 | 29 | 9,018 | 6,576 | 579 | 7,156 | 8.10 | 72.93 | 79.35 | | |
| 17 | Palpa | Sardewa | 50 | 17,006 | 50 | July 2015 | 1 | 50 | 16,980 | 13,014 | | | 1 | 50 | 16,980 | 11,866 | 1,147 | 13,014 | 8.82 | 69.88 | 76.64 | | |
| 18 | Palpa | Serakhet | 26 | 9,755 | 26 | July 2016 | 1 | 26 | 9,755 | 7,910 | | | 1 | 26 | 9,755 | 7,460 | 449 | 7,910 | 5.68 | 76.48 | 81.09 | | |
| 19 | Palpa | Gairapanari, Binapate | 56 | 27,759 | 56 | July 2015 | 1 | 56 | 27,757 | 23,975 | | | 1 | 56 | 27,757 | 21,984 | 1,992 | 23,975 | 8.31 | 79.20 | 86.38 | | |
| 20 | Gulmi | Waorgati Sanichaur | 55 | 24,035 | 55 | July 2016 | 1 | 55 | 23,938 | 17,481 | | | 1 | 55 | 23,938 | 16,487 | 994 | 17,481 | 5.68 | 68.87 | 73.02 | | |
| 21 | Gulmi | Jherdi khola | 25 | 10,671 | 25 | June 2015 | 1 | 25 | 10,660 | 9,127 | | | 1 | 25 | 10,660 | 8,260 | 867 | 9,127 | 9.50 | 77.49 | 85.62 | | |
| 22 | Gulmi | Damkaphant/Sota | 100 | 44,742 | 100 | July 2017 | 1 | 100 | 44,643 | 33,516 | | | 1 | 100 | 44,643 | 31,067 | 2,449 | 33,516 | 7.31 | 69.59 | 75.08 | | |
| 23 | Arghakhanchi | Damaidhunga | 50 | 13,886 | 50 | July 2015 | 1 | 50 | 13,882 | 11,844 | | | 1 | 50 | 13,882 | 10,279 | 1,565 | 11,844 | 13.21 | 74.05 | 85.32 | | |
| 24 | Arghakhanchi | Kopche Damare | 64 | 24,087 | 64 | Mar 2017 | 1 | 64 | 24,087 | 20,494 | | | 1 | 64 | 24,087 | 18,725 | 1,768 | 20,494 | 8.63 | 77.74 | 85.08 | | |
| total of Hill-West - 21 (Nos.) | | | 1,235 | 400,786 | 1,235 | | 21 | 1,235 | 399,137 | 316,194 | - | - | 21 | 1,235 | 399,137 | 291,405 | 24,788 | 316,194 | 7.84 | 73.01 | 79.22 | | |
| Terai-Surface | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | Nawalparasi | Tokare | 520 | 86,609 | 520 | July 2017 | 1 | 520 | 86,608 | 67,366 | | | 1 | 520 | 86,608 | 62,232 | 5,134 | 67,366 | 7.62 | 71.86 | 77.78 | | |
| 26 | Kapilvastu | Madwan Sikari | 535 | 83,896 | 535 | July 2017 | 1 | 535 | 83,894 | 70,946 | | | 1 | 535 | 83,894 | 65,252 | 5,695 | 70,946 | 8.03 | 77.78 | 84.57 | | |
| 27 | Kapilvastu | Bharai khola | 200 | 38,021 | 200 | July 2017 | 1 | 200 | 38,022 | 32,729 | | | 1 | 200 | 38,022 | 29,955 | 2,773 | 32,729 | 8.47 | 78.79 | 86.08 | | |
| total of Terai-West - 3 (Nos.) | | | 1,255 | 208,526 | 1,255 | | 3 | 1,255 | 208,524 | 171,041 | - | - | 3 | 1,255 | 208,524 | 157,440 | 13,602 | 171,041 | 7.95 | 75.50 | 82.02 | | |
| Terai-GW | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Kapilvastu | Valwad DTW | 460 | 14,260 | 122 | July 2016 | 1 | 122 | 14,258 | 11,695 | | | 1 | 122 | 14,258 | 10,298 | 1,397 | 11,695 | 11.95 | 72.22 | 82.02 | | |
| 29 | Rupandehi | BLGW- DTW- | 3,000 | 138,000 | 3,000 | March 2017 | 1 | 3,000 | 162,167 | 92,036 | | | 1 | 3,000 | 162,167 | 83,105 | 8,931 | 92,036 | 9.70 | 51.25 | 56.75 | | |
| total of GW-WR - 2 (Nos.) | | | 3,460 | 152,260 | 3,122 | | 2 | 3,122 | 176,426 | 103,730 | - | - | 2 | 3,122 | 176,426 | 93,402 | 10,328 | 103,730 | 9.96 | 52.94 | 58.80 | | |
| Total of WR - 29 Nos. | | | 6,067 | 807,697 | 5,729 | | 29 | 5,729 | 827,932 | 623,818 | - | - | 29 | 5,729 | 827,932 | 571,782 | 52,036 | 623,818 | 8.34 | 69.06 | 75.35 | | |

List of Completed Sub-projects
6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

| Amount in '000 NRs. | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------|---------------------------|-----------------------|---------------|---------|--------------------------|-----------------|--|-------------|---------|----------------|-----------------------|-----|-----------------------------------|---------|---------|----------------|-----------|------------------|-----------------------|--------------------------------------|
| SN | | District | Name of Sub-project | PICC Approved | | Actual developed CA (ha) | Completion date | Completed End of 5th Trim (15 Nov. 2017) | | | | During 6th trim | | Completion Status End of 6th trim | | | | | | | |
| | | | | | | | | CA (ha) | PICC Amount | CA (ha) | Total Estimate | Total Completion Cost | Nos | CA (ha) | Nos | CA (ha) | Total Estimate | Expen Dol | Expen WUA contri | Total Completion Cost | WUA Contr. Evaluated expenditure (%) |
| | | | | CA (ha) | | | | | | | | | | | | | | | | Exclu. WUA Contri | Inclu. WUA Contri |
| | | <u>Mid-Western Region</u> | | | | | | | | | | | | | | | | | | | |
| | | <u>Mountain</u> | | | | | | | | | | | | | | | | | | | |
| 30 | Humla | | Gangru Pinathang | 28 | 18,027 | 28 | March 2018 | - | - | - | 1 | 28 | 1 | 28 | 18,028 | 10,917 | 1,000 | 11,917 | 8.39 | 60.56 | |
| total of MWR- 1 nos. | | | | 28 | 18,027 | 28 | | - | - | - | 1 | 28 | 1 | 28 | 18,028 | 10,917 | 1,000 | 11,917 | 8.39 | 60.56 | |
| | | <u>Hill</u> | | | | | | | | | | | | | | | | | | | |
| 31 | Jajarkot | | Chaukha Rauli Jyula | 27 | 10,686 | 27 | July 2017 | 1 | 27 | 10,731 | | | 1 | 27 | 10,731 | 9,229 | 816 | 10,045 | 8.12 | 86.00 | |
| 32 | Jajarkot | | Sani chaur | 20 | 12,379 | 20 | March 2018 | - | - | - | 1 | 20 | 1 | 20 | 12,379 | 8,568 | 675 | 9,243 | 7.30 | 69.21 | |
| 33 | Rukum | | Chauke Takuri | 45 | 20,677 | 45 | July 2016 | 1 | 45 | 20,677 | | | 1 | 45 | 20,677 | 10,522 | 152 | 10,674 | 1.42 | 50.89 | |
| 34 | Rukum | | Sakure-Reappraised | 45 | 28,921 | 45 | July 2017 | 1 | 45 | 28,922 | | | 1 | 45 | 28,922 | 20,824 | 1,905 | 22,729 | 8.38 | 72.00 | |
| 35 | Pyuthan | | Ghari kulo | 30 | 13,018 | 30 | July 2015 | 1 | 30 | 13,018 | | | 1 | 30 | 13,018 | 6,385 | 753 | 7,138 | 10.55 | 49.05 | |
| 36 | Pyuthan | | Gartung khola | 55 | 20,239 | 55 | July 2015 | 1 | 55 | 20,239 | | | 1 | 55 | 20,239 | 10,962 | 1,432 | 12,394 | 11.55 | 54.16 | |
| 37 | Rolpa | | Manghat | 50 | 26,033 | 50 | July 2017 | 1 | 50 | 25,361 | | | 1 | 50 | 25,361 | 16,824 | 2,163 | 18,987 | 11.39 | 66.34 | |
| 38 | Rolpa | | Oat ISP | 45 | 23,059 | 45 | July 2017 | 1 | 45 | 21,921 | | | 1 | 45 | 21,921 | 14,960 | 1,529 | 16,489 | 9.27 | 68.24 | |
| 39 | Surkhet | | Jharkhet | 28 | 11,184 | 28 | July 2017 | 1 | 28 | 11,183 | | | 1 | 28 | 11,183 | 7,736 | 631 | 8,367 | 7.54 | 69.18 | |
| 40 | Surkhet | | Mathillo Bahuni Chaur | 44 | 18,080 | 44 | July 2017 | 1 | 44 | 18,081 | | | 1 | 44 | 18,081 | 12,374 | 1,431 | 13,805 | 10.37 | 68.44 | |
| 41 | Surkhet | | Gamkhola Kholte Pani | 40 | 14,147 | 40 | July 2017 | 1 | 40 | 14,147 | | | 1 | 40 | 14,147 | 10,038 | 1,163 | 11,201 | 10.38 | 70.95 | |
| 42 | Salyan | | Darimiyuala | 56 | 18,620 | 56 | April 2015 | 1 | 56 | 18,620 | | | 1 | 56 | 18,620 | 15,544 | 1,230 | 16,774 | 7.33 | 83.48 | |
| total of Hill-MWR - 12 Nos. | | | | 485 | 217,045 | 485 | | 11 | 465 | 202,900 | 147,607 | 1 | 20 | 12 | 485 | 215,279 | 143,966 | 13,880 | 157,846 | 8.79 | 66.87 |
| | | <u>Terai-Surface</u> | | | | | | | | | | | | | | | | | | | |
| 43 | Bardiya | | Batule- Kurule | 70 | 27,762 | 70 | July 2015 | 1 | 70 | 27,762 | | | 1 | 70 | 27,762 | 21,282 | 1,981 | 23,263 | 8.52 | 76.66 | |
| 44 | Bardiya | | Ambasa-Balanti | 213 | 42,553 | 213 | July 2017 | 1 | 213 | 42,553 | | | 1 | 213 | 42,553 | 26,317 | 3,463 | 29,780 | 11.63 | 61.85 | |
| 45 | Banka | | Paruwa | 200 | 32,802 | 200 | July 2016 | 1 | 200 | 32,804 | | | 1 | 200 | 32,804 | 27,400 | 2,152 | 29,553 | 7.28 | 83.53 | |
| 46 | Banka | | Thure | 215 | 40,120 | 215 | July 2017 | 1 | 215 | 40,120 | | | 1 | 215 | 40,120 | 26,251 | 1,517 | 27,768 | 5.46 | 65.43 | |
| 47 | Dang | | Lohadabre | 800 | 116,967 | 800 | July 2016 | 1 | 800 | 118,079 | | | 1 | 800 | 118,079 | 89,429 | 9,838 | 99,267 | 9.91 | 75.74 | |
| 48 | Dang | | Ratgalyan | 495 | 35,978 | 495 | July 2015 | 1 | 495 | 35,345 | | | 1 | 495 | 35,345 | 24,131 | 3,483 | 27,615 | 12.61 | 68.27 | |
| total of Terai-MWR - 6 Nos. | | | | 1,993 | 296,182 | 1,993 | | 6 | 1,993 | 296,662 | 231,476 | - | 6 | 1,993 | 296,662 | 214,811 | 22,435 | 237,246 | 9.46 | 72.41 | |

List of Completed Sub-projects
6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Amount in '000 NRs.

| SN | District | Name of Sub-project | PICC Approved | | Actual developed CA (ha) | Completion date | Completed End of 5th Trim (15 Nov. 2017) | | | | During 6th trim | | Completion Status End of 6th trim | | | | | | | WUA Contri. Evaluat ed wrt expendi ture (%) | Financial Progress wrt Estimate (%) | |
|--------------------------------|------------|-------------------------|---------------|-------------|--------------------------------|-----------------|--|---------|----------------|-----------------------|-----------------|---------|-----------------------------------|-----------|------------|-----------------------|-------------------|-------------------|-------|---|-------------------------------------|--|
| | | | CA (ha) | PICC Amount | | | Nos | CA (ha) | Total Estimate | Total Completion Cost | Nos | CA (ha) | Total Estimate | Expen Dol | WUA contri | Total Completion Cost | Exclu. WUA Contri | Inclu. WUA Contri | | | | |
| | | | | | Up to 6th trim (15 March 2018) | | | | | | | | | | | | | | | | | |
| | GW | | | | | | | | | | | | | | | | | | | | | |
| 49 | Bardiya | Sanoshree DTW (New-6 | 240 | 54,759 | 240 | July 2015 | 1 | 240 | 57,787 | 47,397 | | | 1 | 240 | 43,024 | 4,373 | 47,397 | 9.23 | 74.45 | 82.02 | | |
| 50 | Banka | Radhapur Sitapur DTW- | 760 | 14,260 | 640 | July 2017 | 1 | 640 | 16,654 | 9,483 | | | 1 | 640 | 7,933 | 1,550 | 9,483 | 16.34 | 47.63 | 56.94 | | |
| 51 | Dang | Bela DTW (New-4 Nos) | 160 | 38,572 | 160 | March 2018 | - | - | - | - | 1 | 160 | 1 | 160 | 18,826 | - | 18,826 | - | 54.24 | 54.24 | | |
| total of GW-MWR - 3 Nos. | | | 1,160 | 107,592 | 1,040 | | 2 | 880 | 74,441 | 56,880 | 1 | 160 | 3 | 1,040 | 69,783 | 5,923 | 75,705 | 7.82 | 63.93 | 69.36 | | |
| Total of MWR - 22 Nos. | | | 3,666 | 638,845 | 3,546 | | 19 | 3,338 | 574,004 | 435,963 | 3 | 208 | 22 | 3,546 | 439,477 | 43,237 | 482,715 | 8.96 | 68.76 | 75.53 | | |
| Far-Western Region | | | | | | | | | | | | | | | | | | | | | | |
| Mountain | | | | | | | | | | | | | | | | | | | | | | |
| 52 | Darchula | Goliadi | 26 | 10,368 | 26 | March 2015 | 1 | 26 | 10,368 | 7,025 | | | 1 | 26 | 6,026 | 1,000 | 7,025 | 14.23 | 58.12 | 67.76 | | |
| 53 | Bajhang | Subeda Tallo Jyula | 35 | 13,661 | 35 | July 2016 | 1 | 35 | 13,661 | 10,850 | | | 1 | 35 | 10,771 | 80 | 10,850 | 0.73 | 78.84 | 79.43 | | |
| total of Mountain-FWR - 2 Nos. | | | 61 | 24,028 | 61 | | 2 | 61 | 24,028 | 17,875 | - | - | 2 | 61 | 16,796 | 1,079 | 17,875 | 6.04 | 69.90 | 74.39 | | |
| Hill | | | | | | | | | | | | | | | | | | | | | | |
| 54 | Baitadi | Nwali | 40 | 9,297 | 40 | July 2014 | 1 | 40 | 10,960 | 7,164 | | | 1 | 40 | 6,513 | 651 | 7,164 | 9.09 | 59.42 | 65.36 | | |
| 55 | Baitadi | Limuda | 50 | 18,027 | 50 | July 2016 | 1 | 50 | 18,027 | 11,689 | | | 1 | 50 | 11,689 | - | 11,689 | - | 64.84 | 64.84 | | |
| 56 | Baitadi | Manekuda | 27 | 10,722 | 27 | July 2017 | 1 | 27 | 10,722 | 4,119 | | | 1 | 27 | 3,527 | 592 | 4,119 | 14.37 | 32.90 | 38.42 | | |
| 57 | Dadeldhura | Jogijala (Re-appraised) | 29 | 16,432 | 29 | July 2015 | 1 | 29 | 16,432 | 16,543 | | | 1 | 29 | 15,726 | 818 | 16,543 | 4.94 | 95.70 | 100.7 | | |
| 58 | Dadeldhura | Badhuwa | 26 | 10,400 | 26 | July 2015 | 1 | 26 | 10,485 | 10,419 | | | 1 | 26 | 9,689 | 731 | 10,419 | 7.01 | 92.40 | 99.37 | | |
| 59 | Dadeldhura | Dhittadi | 29 | 14,204 | 29 | July 2017 | 1 | 29 | 14,204 | 10,961 | | | 1 | 29 | 9,959 | 1,003 | 10,961 | 9.15 | 70.11 | 77.17 | | |
| 60 | Dadeldhura | Bhitte Sal | 32 | 15,091 | 32 | July 2017 | 1 | 32 | 14,861 | 12,507 | | | 1 | 32 | 11,478 | 1,029 | 12,507 | 8.22 | 77.24 | 84.16 | | |
| 61 | Doti | Dhanras Khet | 72 | 28,720 | 72 | July 2015 | 1 | 72 | 28,720 | 33,119 | | | 1 | 72 | 31,124 | 1,995 | 33,119 | 6.02 | 108.4 | 115.3 | | |
| total of Hill-FWR - 8 Nos. | | | 305 | 122,893 | 305 | | 8 | 305 | 124,411 | 106,522 | - | - | 8 | 305 | 99,704 | 6,818 | 106,522 | 6.40 | 80.14 | 85.62 | | |
| Terai-Surface | | | | | | | | | | | | | | | | | | | | | | |
| 62 | Kanchapur | Bagun | 256 | 34,724 | 256 | July 2016 | 1 | 256 | 34,424 | 21,949 | | | 1 | 256 | 19,540 | 2,409 | 21,949 | 10.97 | 56.76 | 63.76 | | |
| 63 | Kailali | Ratipur | 367 | 63,793 | 367 | July 2017 | 1 | 367 | 63,654 | 41,406 | | | 1 | 367 | 37,876 | 3,530 | 41,406 | 8.52 | 59.50 | 65.05 | | |
| total of Terai-FWR - 2 Nos. | | | 623 | 98,517 | 623 | | 2 | 623 | 98,078 | 63,355 | - | - | 2 | 623 | 57,416 | 5,938 | 63,355 | 9.37 | 58.54 | 64.60 | | |
| Terai-GW | | | | | | | | | | | | | | | | | | | | | | |
| total of GW-FWR - None | | | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Total of FWR - 12 Nos. | | | 989 | 245,438 | 989 | | 12 | 989 | 246,517 | 187,752 | - | - | 12 | 989 | 173,916 | 13,835 | 187,752 | 7.37 | 70.55 | 76.16 | | |
| Total of 3 Regions -63 Nos. | | | 10,722 | 1,691,980 | 10,264 | | 60 | 10,056 | 1,648,453 | 1,247,533 | 3 | 208 | 63 | 10,264 | 1,185,176 | 109,108 | 1,294,284 | 8.43 | 69.16 | 75.53 | | |

Status of Completed Sub-projects
6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Region wise

Amount in '000 NRs.

| Region | Ecology | Nos. of ISP | PICC Approved | | Completed End of 5th Trim (15 Nov. 2017 | | | | During 6th trim | | Completion Status End of 6th trim | | | | | | Financial Progress wrt Estimate (%) | |
|--------------------|----------|----------------|---------------|----------------|---|---------|-------------------------------|-----------------------------|--------------------|---------|--|-----------|-------------------------------|-----------|-----------------------------|-----------------------------|---|--|
| | | | | | Up to 6th trim (15 March 2018) | | | | | | WUA Contri. Evaluated wrt Expen. (%) | | | | | | | |
| | | | CA (ha) | PICC Amount | Nos | CA (ha) | Total Approved Estimate | Total Completion Cost | Nos | CA (ha) | | | Total Approved Estimate | Dol | WUA contri. Evaluated | Total Completion Cost | | |
| WR | Mountain | 3 | 117 | 46,125 | 3 | 117 | 43,846 | 32,852 | - | 3 | 117 | 29,535 | 3,318 | 32,852 | 10.10 | 67.36 | 74.93 | |
| | Hill | 21 | 1,235 | 400,786 | 21 | 1,235 | 399,137 | 316,194 | - | 21 | 1,235 | 291,405 | 24,788 | 316,194 | 7.84 | 73.01 | 79.22 | |
| | Trai | 3 | 1,255 | 208,526 | 3 | 1,255 | 208,524 | 171,041 | - | 3 | 1,255 | 157,440 | 13,602 | 171,041 | 7.95 | 75.50 | 82.02 | |
| | GW | 2 | 3,460 | 152,260 | 2 | 3,122 | 176,426 | 103,730 | - | 2 | 3,122 | 93,402 | 10,328 | 103,730 | 9.96 | 52.94 | 58.80 | |
| | Total | 29 | 6,067 | 807,697 | 29 | 5,729 | 827,932 | 623,818 | - | 29 | 5,729 | 571,782 | 52,036 | 623,818 | 8.34 | 69.06 | 75.35 | |
| MWR | Mountain | 1 | 28 | 18,027 | - | - | 18,028 | - | 1 | 28 | 18,028 | 10,917 | 1,000 | 11,917 | 8.39 | 60.56 | 66.11 | |
| | Hill | 12 | 485 | 217,045 | 11 | 465 | 215,279 | 147,607 | 1 | 20 | 215,279 | 143,966 | 13,880 | 157,846 | 8.79 | 66.87 | 73.32 | |
| | Trai | 6 | 1,993 | 296,182 | 6 | 1,993 | 296,662 | 231,476 | - | 6 | 1,993 | 214,811 | 22,435 | 237,246 | 9.46 | 72.41 | 79.97 | |
| | GW | 3 | 1,160 | 107,592 | 2 | 880 | 109,149 | 56,880 | 1 | 160 | 109,149 | 69,783 | 5,923 | 75,705 | 7.82 | 63.93 | 69.36 | |
| | Total | 22 | 3,666 | 638,845 | 19 | 3,338 | 639,119 | 435,963 | 3 | 208 | 639,119 | 439,477 | 43,237 | 482,715 | 8.96 | 68.76 | 75.53 | |
| FWR | Mountain | 2 | 61 | 24,028 | 2 | 61 | 24,028 | 17,875 | - | 2 | 61 | 16,796 | 1,079 | 17,875 | 6.04 | 69.90 | 74.39 | |
| | Hill | 8 | 305 | 122,893 | 8 | 305 | 124,411 | 106,522 | - | 8 | 305 | 99,704 | 6,818 | 106,522 | 6.40 | 80.14 | 85.62 | |
| | Trai | 2 | 623 | 98,517 | 2 | 623 | 98,078 | 63,355 | - | 2 | 623 | 57,416 | 5,938 | 63,355 | 9.37 | 58.54 | 64.60 | |
| | GW | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Total | 12 | 989 | 245,438 | 12 | 989 | 246,517 | 187,752 | - | 12 | 989 | 173,916 | 13,835 | 187,752 | 7.37 | 70.55 | 76.16 | |
| Total of 3 Regions | | 63 | 10,722 | 1,691,980 | 60 | 10,056 | 1,713,567 | 1,247,533 | 3 | 208 | 1,713,567 | 1,185,176 | 109,108 | 1,294,284 | 8.43 | 69.16 | 75.53 | |

Status of Completed Sub-projects

6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Ecology wise

Amount in '000 NRs.

| Ecology | Region | Nos. of ISP | PICC Approved | | Completed End of 5th Trim (15 Nov. 2017 | | | | During 6th trim | | Completion Status End of 6th trim | | | | | | | Financial Progress wrt Estimate (%) | |
|----------|--------|-------------|---------------|-------------|---|---------|-------------------------|-----------------------|-----------------|---------|-----------------------------------|---------|--------------------------------|-----------------------|-----------------------|--------------------------------------|-------------------|-------------------------------------|-------|
| | | | CA (ha) | PICC Amount | Nos | CA (ha) | Total Approved Estimate | Total Completion Cost | Nos | CA (ha) | Nos | CA (ha) | Up to 6th trim (15 March 2018) | | | WUA Contri. Evaluated wrt Expen. (%) | Exclu. WUA Contri | Inclu. WUA Contri | |
| | | | | | | | | | | | | | Dol | WUA contri. Evaluated | Total Completion Cost | | | | |
| Mountain | WR | 3 | 117 | 46,125 | 3 | 117 | 43,846 | 32,852 | - | - | 3 | 117 | 43,846 | 29,535 | 3,318 | 32,852 | 10.10 | 67.36 | 74.93 |
| | MWR | 1 | 28 | 18,027 | - | - | 18,028 | - | 1 | 28 | 1 | 28 | 18,028 | 10,917 | 1,000 | 11,917 | 8.39 | 60.56 | 66.11 |
| | FWR | 2 | 61 | 24,028 | 2 | 61 | 24,028 | 17,875 | - | - | 2 | 61 | 24,028 | 16,796 | 1,079 | 17,875 | 6.04 | 69.90 | 74.39 |
| | Total | 6 | 206 | 88,180 | 5 | 178 | 85,902 | 50,728 | 1 | 28 | 6 | 206 | 85,902 | 57,248 | 5,397 | 62,645 | 8.61 | 66.64 | 72.93 |
| Hill | WR | 21 | 1,235 | 400,786 | 21 | 1,235 | 399,137 | 316,194 | - | - | 21 | 1,235 | 399,137 | 291,405 | 24,788 | 316,194 | 7.84 | 73 | 79 |
| | MWR | 12 | 485 | 217,045 | 11 | 465 | 215,279 | 147,607 | 1 | 20 | 12 | 485 | 215,279 | 143,966 | 13,880 | 157,846 | 8.79 | 67 | 73 |
| | FWR | 8 | 305 | 122,893 | 8 | 305 | 124,411 | 106,522 | - | - | 8 | 305 | 124,411 | 99,704 | 6,818 | 106,522 | 6.40 | 80 | 86 |
| | Total | 41 | 2,025 | 740,724 | 40 | 2,005 | 738,827 | 570,323 | 1 | 20 | 41 | 2,025 | 738,827 | 535,076 | 45,486 | 580,562 | 7.83 | 72.42 | 78.58 |
| Terai | WR | 3 | 1,255 | 208,526 | 3 | 1,255 | 208,524 | 171,041 | - | - | 3 | 1,255 | 208,524 | 157,440 | 13,602 | 171,041 | 7.95 | 76 | 82 |
| | MWR | 6 | 1,993 | 296,182 | 6 | 1,993 | 296,662 | 231,476 | - | - | 6 | 1,993 | 296,662 | 214,811 | 22,435 | 237,246 | 9.46 | 72 | 80 |
| | FWR | 2 | 623 | 98,517 | 2 | 623 | 98,078 | 63,355 | - | - | 2 | 623 | 98,078 | 57,416 | 5,938 | 63,355 | 9.37 | 59 | 65 |
| | Total | 11 | 3,871 | 603,225 | 11 | 3,871 | 603,264 | 465,872 | - | - | 11 | 3,871 | 603,264 | 429,667 | 41,974 | 471,642 | 8.90 | 71.22 | 78.18 |
| GW | WR | 2 | 3,460 | 152,260 | 2 | 3,122 | 176,426 | 103,730 | - | - | 2 | 3,122 | 176,426 | 93,402 | 10,328 | 103,730 | 9.96 | 53 | 59 |
| | MWR | 3 | 1,160 | 107,592 | 2 | 880 | 109,149 | 56,880 | 1 | 160 | 3 | 1,040 | 109,149 | 69,783 | 5,923 | 75,705 | 7.82 | 64 | 69 |
| | FWR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Total | 5 | 4,620 | 259,852 | 4 | 4,002 | 285,575 | 160,610 | 1 | 160 | 5 | 4,162 | 285,575 | 163,185 | 16,251 | 179,436 | 9.06 | 57.14 | 62.83 |
| Total | | 63 | 10,722 | 1,691,980 | 60 | 10,056 | 1,713,567 | 1,247,533 | 3 | 208 | 63 | 10,264 | 1,713,567 | 1,185,176 | 109,108 | 1,294,284 | 8.43 | 69.16 | 75.53 |

Status of Ongoing Sub-projects
6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Amount in '000 NRs.

| Total Expenditure up to 6th trim (15 March 2018) | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|---------------------------------------|--------|-----------------------------------|---------------------------------|-------------------|--------|---------|------------|-----------------------------------|---------|----------------------|--------------------|-------------------|---|-------------------------------------|---------------|-----------------------|-----------|------|---|---|---|
| District | Name of Sub-project | Ongoing up to 5th trim (15 Nov. 2017) | | | | Approved Estimate | | | | | | Expenditure | | | WUA Contri. Evaluated wrt Expen. (%) -6th | Financial Progress wrt Estimate (%) | | Physical progress (%) | | | Progress Status (%) of Ongoing SPs -6th | | |
| | | Approved Estimate | | | Total Expen. (DOI+WUA A Contri) | Nos | CA(ha) | Dol | WUA Contri | Total Estimate (DOI+WUA contrib.) | Dol | WUA Contri Evaluated | Total (DOI+Contri) | Exclu. WUA Contri | | Inclu. WUA Contri | Initial Stage | <50% | 50% - 80% | >80% | | | |
| | | Nos | CA(ha) | Total Estimate (DOI+WUA contrib.) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Western Region | | | | | | | | | | | | | | | | | | | | | | | |
| Mountain | | | | | | | | | | | | | | | | | | | | | | | |
| total of Mountain-West- 0 (Nos.) | | - | - | - | | | | | | | | | | | | | | | | | | | |
| Hill | | | | | | | | | | | | | | | | | | | | | | | |
| Gorkha | Pokharatar | 1 | 70 | 19,927 | 16,652 | 1 | 70 | 18,267 | 1,660 | 19,927 | 15,249 | 1,403 | 16,652 | 8.43 | 76.52 | 83.56 | 95 | - | - | - | - | - | 1 |
| Gorkha | Bakrang Besi | 1 | 75 | 25,567 | 17,576 | 1 | 75 | 23,783 | 1,784 | 25,567 | 16,393 | 1,183 | 17,576 | 6.73 | 64.12 | 68.74 | 91 | - | - | - | - | - | 1 |
| Kaski | Dhiprangbesi-Reappraised | 1 | 28 | 14,616 | 9,407 | 1 | 28 | 13,583 | 1,033 | 14,616 | 8,393 | 1,014 | 9,407 | 10.78 | 57.42 | 64.36 | 89 | - | - | - | - | - | 1 |
| Kaski | Tallo Dabake | 1 | 27 | 11,190 | 8,184 | 1 | 27 | 10,399 | 791 | 11,190 | 7,861 | 324 | 8,184 | 3.95 | 70.25 | 73.14 | 91 | - | - | - | - | - | 1 |
| Parbat | Gyandi | 1 | 170 | 25,075 | 3,684 | 1 | 170 | 23,265 | 1,810 | 25,075 | 12,337 | - | 12,337 | - | 49.20 | 49.20 | 75 | - | - | - | - | - | 1 |
| Parbat | Rati khola | 1 | 95 | 20,596 | 5,771 | 1 | 95 | 19,090 | 1,506 | 20,596 | 9,233 | 1,543 | 10,776 | 14.32 | 44.83 | 52.32 | 85 | - | - | - | - | - | 1 |
| Gulmi | Rumta Aambot | 1 | 80 | 31,960 | 2,081 | 1 | 80 | 29,547 | 2,413 | 31,960 | 8,292 | - | 8,292 | - | 25.95 | 25.95 | 34 | - | - | - | - | - | 1 |
| total of Hill-West -7 (Nos.) | | 7 | 545 | 148,931 | 63,355 | 7 | 545 | 137,934 | 10,997 | 148,931 | 77,757 | 5,467 | 83,225 | 6.57 | 52.21 | 55.88 | | - | 1 | 1 | 5 | | |
| Terai-Surface | | | | | | | | | | | | | | | | | | | | | | | |
| Nawalparasi | Bhedabari | 1 | 200 | 17,559 | 2,760 | 1 | 200 | 16,305 | 1,254 | 17,559 | 6,926 | - | 6,926 | - | 39.44 | 39.44 | 60 | - | - | - | - | - | 1 |
| Nawalparasi | Bhorlebas | 1 | 120 | 21,615 | 1,300 | 1 | 120 | 20,063 | 1,553 | 21,615 | 8,325 | - | 8,325 | - | 38.51 | 38.51 | 55 | - | - | - | - | - | 1 |
| Rupandehi | Itivakulo | 1 | 2,500 | 131,230 | 74,290 | 1 | 2,500 | 121,509 | 9,721 | 131,230 | 66,678 | 7,612 | 74,290 | 10.25 | 50.81 | 56.61 | 94 | - | - | - | - | - | 1 |
| Rupandehi | Jhimjime | 1 | 240 | 54,845 | 18,691 | 1 | 240 | 50,823 | 4,022 | 54,845 | 16,586 | 2,105 | 18,691 | 11.26 | 30.24 | 34.08 | 65 | - | - | - | - | - | 1 |
| total of Terai-West - 4 (Nos.) | | 4 | 3,060 | 225,250 | 97,041 | 4 | 3,060 | 208,700 | 16,550 | 225,250 | 98,516 | 9,717 | 108,232 | 8.98 | 43.74 | 48.05 | | - | 3 | 1 | | | |
| Terai-GW | | | | | | | | | | | | | | | | | | | | | | | |
| Rupandehi | BLGWP- DTW-9 Nos.-Reh.-b | 1 | 1,080 | 49,141 | 6,212 | 1 | 1,080 | 41,845 | 7,296 | 49,141 | 20,289 | 2,909 | 23,199 | 12.54 | 41.29 | 47.21 | 72 | - | - | - | - | - | 1 |
| Nawalparasi | Petbaniya DTW-4 Nos.New | 1 | 160 | 35,837 | 8,297 | 1 | 160 | 30,461 | 5,376 | 35,837 | 8,399 | - | 8,399 | - | 23.44 | 23.44 | 33 | - | - | - | - | - | 1 |
| total of GW-WR - 2 (Nos.) | | 2 | 1,240 | 84,978 | 14,509 | 2 | 1,240 | 72,306 | 12,672 | 84,978 | 28,689 | 2,909 | 31,598 | 9.21 | 33.76 | 37.18 | | - | 1 | 1 | | | |
| Total of WR - 13 Nos. | | 13 | 4,845 | 459,159 | 174,905 | 13 | 4,845 | 418,940 | 40,219 | 459,159 | 204,962 | 18,093 | 223,055 | 8.11 | 44.64 | 48.58 | | - | 2 | 5 | 6 | | |
| Mid-Western Region | | | | | | | | | | | | | | | | | | | | | | | |
| Mountain | | | | | | | | | | | | | | | | | | | | | | | |
| Humla | Maspatal | 1 | 100 | 67,195 | 43,205 | 1 | 100 | 62,319 | 4,876 | 67,195 | 40,819 | 5,272 | 46,092 | 11.44 | 60.75 | 68.59 | 90 | - | - | - | - | - | 1 |
| Humla | Gangru Pinathang | 1 | 28 | 18,028 | 11,817 | | | | | | | | | | | | | | | | | | |
| Humla | Sarkegad | 1 | 60 | 40,429 | 2,800 | 1 | 60 | 37,465 | 2,964 | 40,429 | 7,389 | 1,000 | 8,389 | 11.92 | 18.28 | 20.75 | 51 | - | - | - | - | - | 1 |
| Jumla | Giri Khola | 1 | 110 | 41,152 | 7,113 | 1 | 110 | 38,385 | 2,767 | 41,152 | 7,113 | - | 7,113 | - | 17.29 | 17.29 | 51 | - | - | - | - | - | 1 |
| Jumla | Laudisim | 1 | 60 | 31,530 | 6,997 | 1 | 60 | 29,456 | 2,074 | 31,530 | 11,500 | - | 11,500 | - | 36.47 | 36.47 | 55 | - | - | - | - | - | 1 |

Status of Ongoing Sub-projects
6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Amount in '000 NRs.

| Total Expenditure up to 6th trim (15 March 2018) | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------|---------------------------------------|--------------|---------------------------------|----------------|-------------------|--------------|----------------|-----------------------------------|----------------|----------------------|--------------------|-------------------|-------------------|--------------------------------------|-------------------------------------|-----------------------|--|-----------|----------|------|
| District | Name of Sub-project | Ongoing up to 5th trim (15 Nov. 2017) | | | | Approved Estimate | | | | | | Expenditure | | | WUA Contri. Evaluated wrt Expen. (%) | Financial Progress wrt Estimate (%) | Physical progress (%) | Progress Status (%) of Ongoing SPs-6th | | | |
| | | Approved Estimate | | Total Expen. (DOI+WUA A Contri) | Nos | CA(ha) | Dol | WUA Contri | Total Estimate (DOI+WUA contrib.) | Dol | WUA Contri Evaluated | Total (DOI+Contri) | Exclu. WUA Contri | Inclu. WUA Contri | | | | Initial Stage | <50% | 50%-80% | >80% |
| | | Nos | CA(ha) | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Mugu | Librukholo to Bajkhket Gatiyula | 1 | 15 | 10,865 | 6,646 | 1 | 15 | 10,136 | 729 | 10,865 | 6,144 | 652 | 6,796 | 9.59 | 56.55 | 62.55 | 81 | - | - | 1 | |
| Dolpa | Kharpula | 1 | 50 | 31,913 | 7,656 | 1 | 50 | 26,761 | 5,152 | 31,913 | 5,500 | 2,156 | 7,656 | 28.16 | 17.23 | 23.99 | 51 | - | 1 | - | |
| total of MWR- 7 nos. | | 7 | 423 | 241,112 | 86,234 | 6 | 395 | 204,522 | 18,562 | 223,084 | 78,465 | 9,080 | 87,545 | 10.37 | 35.17 | 39.24 | | - | 4 | 2 | |
| Hill | | | | | | | | | | | | | | | | | | | | | |
| Jajarkot | Sani chaur | 1 | 20 | 12,379 | 6,518 | | | | | | | | | | | | | | | | |
| Rukum | Chhipra khola | 1 | 45 | 29,979 | 4,479 | 1 | 45 | 19,279 | 1,398 | 20,677 | 12,555 | 2,067 | 14,622 | 14.14 | 41.88 | 48.77 | 51 | - | 1 | - | |
| Pyuthan | Lamasera-Reappraised | 1 | 25 | 12,247 | 11,625 | 1 | 25 | 12,113 | 905 | 13,018 | 10,870 | 979 | 11,849 | 8.26 | 88.76 | 96.75 | 95 | - | - | 1 | |
| Pyuthan | Pindali Phat-Reappraised | 1 | 45 | 21,703 | 14,422 | 1 | 45 | 19,953 | 1,750 | 21,703 | 16,335 | 1,160 | 17,495 | 6.63 | 75.27 | 80.61 | 81 | - | - | 1 | |
| Surkhet | Malarani Sahare | 1 | 200 | 57,220 | 39,090 | 1 | 200 | 23,522 | 1,838 | 25,361 | 38,392 | 698 | 39,090 | 1.79 | 67.10 | 68.32 | 81 | - | - | 1 | |
| Salvan | Tatke kulo | 1 | 25 | 16,511 | 3,035 | 1 | 25 | 10,414 | 769 | 11,183 | 2,850 | 185 | 3,035 | 6.10 | 17.26 | 18.38 | 51 | - | 1 | - | |
| Dailekh | Kharigaira Tarachaur | 1 | 75 | 24,466 | 3,634 | 1 | 75 | 22,715 | 1,751 | 24,466 | 7,642 | - | 7,642 | - | 31.24 | 31.24 | 55 | - | 1 | - | |
| total of Hill-MWR - 7 Nos. | | 7 | 435 | 174,505 | 82,803 | 6 | 415 | 107,997 | 8,411 | 116,408 | 88,644 | 5,089 | 93,733 | 5.43 | 76.15 | 80.52 | | - | 3 | 3 | |
| Terai-Surface | | | | | | | | | | | | | | | | | | | | | |
| Dang | Bahundanda | 1 | 270 | 66,918 | 32,064 | 1 | 270 | 63,875 | 3,042 | 66,918 | 29,022 | 3,042 | 32,064 | 9.49 | 43.37 | 47.92 | 81 | - | - | 1 | |
| Dang | Babarpur Jaluke | 1 | 105 | 43,039 | 1,930 | 1 | 105 | 39,822 | 3,217 | 43,039 | 1,930 | - | 1,930 | - | 4.48 | 4.48 | 55 | - | 1 | - | |
| total of Terai-MWR - 2 Nos. | | 2 | 375 | 109,957 | 33,994 | 2 | 375 | 103,697 | 6,259 | 109,957 | 30,952 | 3,042 | 33,994 | 8.95 | 28.15 | 30.92 | | - | 1 | 1 | |
| GW | | | | | | | | | | | | | | | | | | | | | |
| Bardiya | Sanoshree-Taratal DTW | 1 | 160 | 42,051 | 7,590 | 1 | 160 | 35,811 | 6,240 | 42,051 | 7,560 | - | 7,560 | - | 17.98 | 17.98 | 51 | - | 1 | - | |
| Dang | Bela DTW (New-4 Nos) | 1 | 160 | 34,708 | 18,826 | | | | | | | | | | | | | | | | |
| Dang | Dhanauri DTW (New)-4 Nos. | 1 | 160 | 38,782 | 2,907 | 1 | 160 | 34,345 | 4,437 | 38,782 | 2,907 | - | 2,907 | - | 7.50 | 7.50 | 51 | - | 1 | - | |
| total of GW-MWR - 3 Nos. | | 3 | 480 | 115,541 | 29,322 | 2 | 320 | 70,156 | 10,677 | 80,833 | 10,467 | - | 10,467 | - | 12.95 | 12.95 | | - | 2 | - | |
| Total of MWR - 19 Nos. | | 19 | 1,713 | 641,115 | 232,353 | 16 | 1,505 | 486,372 | 43,910 | 530,282 | 208,528 | 17,211 | 225,739 | 7.62 | 39.32 | 42.57 | | - | 10 | 6 | |

Status of Ongoing Sub-projects
6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Amount in '000 NRs.

| Total Expenditure up to 6th trim (15 March 2018) | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------------|---------------------------------------|--------------|---------------------------------|----------------|-------------------|--------------|------------------|-----------------------------------|------------------|----------------------|--------------------|-------------------|-------------------|---|-------------------------------------|------|-----------------------|---|-----------|-----------------------------------|
| District | Name of Sub-project | Ongoing up to 5th trim (15 Nov. 2017) | | | | Approved Estimate | | | | | | Expenditure | | | WUA Contri. Evaluated wrt Expen. (%) -6th | Financial Progress wrt Estimate (%) | | Physical progress (%) | Progress Status (%) of Ongoing SPs -6th | | |
| | | Approved Estimate | | Total Expen. (DOI+WUA A Contri) | Nos | CA(ha) | Dol | WUA Contri | Total Estimate (DOI+WUA contrib.) | Dol | WUA Contri Evaluated | Total (DOI+Contri) | Exclu. WUA Contri | Inclu. WUA Contri | | Initial Stage | <50% | | 50% - 80% | >80% | |
| | | Nos | CA(ha) | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | Total Estimate (DOI+WUA contrib.) |
| Far-Western Region | | | | | | | | | | | | | | | | | | | | | |
| Mountain | | | | | | | | | | | | | | | | | | | | | |
| Darchula | Naktad-Reappraised | 1 | 72 | 21,009 | 14,624 | 1 | 72 | 18,382 | 2,628 | 21,009 | 15,438 | 1,621 | 17,059 | 9.50 | 73.48 | 81.20 | 81 | - | - | 1 | |
| Darchula | Pant Pali | 1 | 40 | 10,332 | 5,373 | 1 | 40 | 9,512 | 820 | 10,332 | 5,373 | - | 5,373 | - | 52.00 | 52.00 | 81 | - | - | 1 | |
| Bajhang | Bhairabnath | 1 | 50 | 11,974 | 12,115 | 1 | 50 | 11,084 | 890 | 11,974 | 11,703 | 412 | 12,115 | 3.40 | 97.74 | 101.2 | 99 | - | - | 1 | |
| Bajhang | Subeda Mallo Jyula | 1 | 60 | 23,970 | 11,985 | 1 | 60 | 22,350 | 1,620 | 23,970 | 11,507 | 478 | 11,985 | 3.99 | 48.00 | 50.00 | 49 | - | 1 | - | |
| Bajhang | Kuch ISP | 1 | 40 | 15,127 | 10,761 | 1 | 40 | 13,787 | 1,340 | 15,127 | 10,367 | 394 | 10,761 | 3.66 | 68.53 | 71.14 | 90 | - | - | 1 | |
| Bajhang | Deura Jwalikhet | 1 | 48 | 15,049 | 955 | 1 | 48 | 14,005 | 1,044 | 15,049 | 3,421 | 91 | 3,512 | 2.58 | 22.73 | 23.34 | 55 | - | 1 | - | |
| Bajura | Bhaunera-Reappraised | 1 | 32 | 21,475 | 8,292 | 1 | 32 | 19,685 | 1,790 | 21,475 | 9,868 | 1,166 | 11,033 | 10.57 | 45.95 | 51.38 | 81 | - | - | 1 | |
| | total of Mountain-FWR - 7 Nos. | 7 | 342 | 118,936 | 64,106 | 7 | 342 | 108,804 | 10,132 | 118,936 | 67,677 | 4,162 | 71,838 | 5.79 | 56.90 | 60.40 | | - | 1 | 5 | |
| Hill | | | | | | | | | | | | | | | | | | | | | |
| Baitadi | Kotedigad | 1 | 25 | 12,220 | 5,617 | 1 | 25 | 11,313 | 907 | 12,220 | 7,705 | - | 7,705 | - | 63.05 | 63.05 | 85 | - | - | 1 | |
| Doti | Kadamandu (Reappraised) | 1 | 200 | 76,946 | 65,466 | 1 | 200 | 70,529 | 6,417 | 76,946 | 59,907 | 5,559 | 65,466 | 8.49 | 77.86 | 85.08 | 85 | - | - | 1 | |
| Doti | Kala Patthareswar (Reappraised) | 1 | 150 | 64,527 | 52,919 | 1 | 150 | 59,193 | 5,334 | 64,527 | 48,021 | 4,898 | 52,919 | 9.26 | 74.42 | 82.01 | 90 | - | - | 1 | |
| | total of Hill-FWR - 3 Nos. | 3 | 375 | 153,693 | 124,001 | 3 | 375 | 141,036 | 12,657 | 153,693 | 115,633 | 10,457 | 126,090 | 8.29 | 75.24 | 82.04 | | - | - | 3 | |
| Terai-Surface | | | | | | | | | | | | | | | | | | | | | |
| Kanchanpur | Kalapani | 1 | 600 | 134,986 | 81,122 | 1 | 600 | 125,381 | 9,605 | 134,986 | 82,894 | 829 | 83,722 | 0.99 | 61.41 | 62.02 | 81 | - | - | 1 | |
| | total of Terai-FWR - 1 Nos. | 1 | 600 | 134,986 | 81,122 | 1 | 600 | 125,381 | 9,605 | 134,986 | 82,894 | 829 | 83,722 | 0.99 | 61.41 | 62.02 | | - | - | 1 | |
| Terai-GW | | | | | | | | | | | | | | | | | | | | | |
| Kanchanpur | Suda DTW-New-4 Nos | 1 | 160 | 48,887 | 7,311 | 1 | 160 | 44,331 | 4,556 | 48,887 | 15,611 | 60 | 15,671 | 0.38 | 31.93 | 32.06 | 51 | - | 1 | - | |
| Kailali | Sadhepani DTW-New- 6 Nos. | 1 | 240 | 56,865 | 34,837 | 1 | 240 | 50,226 | 6,639 | 56,865 | 41,792 | 5,292 | 47,085 | 11.24 | 73.49 | 82.80 | 65 | - | 1 | - | |
| | total of GW-FWR - 2 Nos. | 2 | 400 | 105,752 | 42,148 | 2 | 400 | 94,558 | 11,194 | 105,752 | 57,404 | 5,352 | 62,756 | 8.53 | 54.28 | 59.34 | | - | 2 | - | |
| | Total of FWR - 13 Nos. | 13 | 1,717 | 513,367 | 311,376 | 13 | 1,717 | 469,779 | 43,588 | 513,367 | 323,607 | 20,799 | 344,406 | 6.04 | 63.04 | 67.09 | | - | 1 | 3 | |
| Total of 3 Regions -45 Nos. | | 45 | 8,275 | 1,613,641 | 718,635 | 42 | 8,067 | 1,375,091 | 127,717 | 1,502,808 | 737,096 | 56,104 | 793,200 | 7.07 | 49.05 | 52.78 | | - | 3 | 18 | |

Status of Ongoing Sub-projects

6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Region wise

| Region | Ecology | Ongoing End of 5th trim (15 Nov. 2017) | | | | | | | Ongoing End of 6th trim (15 March 2018) | | | | | | | Amount in '000 NRs. | | | | | |
|--------------------|----------|--|--------|--|-------------|----------------------------|--|-----|---|--|---------|----------------------------|--|-------------------------|-------------------------|--|---|------|---------------------|------|--|
| | | Approved Estimate | | | Expenditure | | | | Approved Estimate | | | Expenditure | | | | WUA Contri. Evaluated wrt Expen. (%) | Financial Progress wrt Estimate (%) | | Progress Status (%) | | |
| | | Nos | CA(ha) | Total Estimate (DOI+WUA contrib.) | Dol | WUA Contri Evaluated | Total Expen. (DOI+WUA Contri) | Nos | CA(ha) | Total Estimate (DOI+WUA contrib.) | Dol | WUA Contri Evaluated | Total Expen. (DOI+WUA Contri) | Exclu. WUA Contri | Inclu. WUA Contri | | Initial Stage | <50% | 50% - 80% | >80% | |
| | | | | | | | | | | | | | | | | | | | | | |
| WR | | | | | | | | | | | | | | | | | | | | | |
| | Mountain | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Hill | 7 | 545 | 148,931 | 59,431 | 3,924 | 63,355 | 7 | 545 | 148,931 | 77,757 | 5,467 | 83,225 | 6.57 | 52.21 | 55.88 | - | 1 | 1 | 5 | |
| | Terai | 4 | 3,060 | 225,250 | 87,324 | 9,717 | 97,041 | 4 | 3,060 | 225,250 | 98,516 | 9,717 | 108,232 | 8.98 | 43.74 | 48.05 | - | - | 3 | 1 | |
| | GW | 2 | 1,240 | 84,978 | 14,509 | - | 14,509 | 2 | 1,240 | 84,978 | 28,689 | 2,909 | 31,598 | 9.21 | 33.76 | 37.18 | - | 1 | 1 | - | |
| | Total | 13 | 4,845 | 459,159 | 161,264 | 13,641 | 174,905 | 13 | 4,845 | 459,159 | 204,962 | 18,093 | 223,055 | 8.11 | 44.64 | 48.58 | - | 2 | 5 | 6 | |
| MWR | | | | | | | | | | | | | | | | | | | | | |
| | Mountain | 7 | 423 | 241,112 | 77,153 | 9,080 | 86,234 | 6 | 395 | 223,084 | 78,465 | 9,080 | 87,545 | 10.37 | 35.17 | 39.24 | - | - | 4 | 2 | |
| | Hill | 7 | 435 | 174,505 | 78,516 | 4,287 | 82,803 | 6 | 415 | 116,408 | 88,644 | 5,089 | 93,733 | 5.43 | 76.15 | 80.52 | - | - | 3 | 3 | |
| | Terai | 2 | 375 | 109,957 | 30,952 | 3,042 | 33,994 | 2 | 375 | 109,957 | 30,952 | 3,042 | 33,994 | 8.95 | 28.15 | 30.92 | - | - | 1 | 1 | |
| | GW | 3 | 480 | 115,541 | 29,322 | - | 29,322 | 2 | 320 | 80,833 | 10,467 | - | 10,467 | - | 12.95 | 12.95 | - | - | 2 | - | |
| | Total | 19 | 1,713 | 641,115 | 215,944 | 16,409 | 232,353 | 16 | 1,505 | 530,282 | 208,528 | 17,211 | 225,739 | 7.62 | 39.32 | 42.57 | - | - | 10 | 6 | |
| FWR | | | | | | | | | | | | | | | | | | | | | |
| | Mountain | 7 | 342 | 118,936 | 60,409 | 3,697 | 64,106 | 7 | 342 | 118,936 | 67,677 | 4,162 | 71,838 | 5.79 | 56.90 | 60.40 | - | 1 | 1 | 5 | |
| | Hill | 3 | 375 | 153,693 | 113,544 | 10,457 | 124,001 | 3 | 375 | 153,693 | 115,633 | 10,457 | 126,090 | 8.29 | 75.24 | 82.04 | - | - | - | 3 | |
| | Terai | 1 | 600 | 134,986 | 80,294 | 829 | 81,122 | 1 | 600 | 134,986 | 82,894 | 829 | 83,722 | 0.99 | 61.41 | 62.02 | - | - | - | 1 | |
| | GW | 2 | 400 | 105,752 | 41,191 | 956 | 42,148 | 2 | 400 | 105,752 | 57,404 | 5,352 | 62,756 | 8.53 | 54.28 | 59.34 | - | - | 2 | - | |
| | Total | 13 | 1,717 | 513,367 | 295,438 | 15,938 | 311,376 | 13 | 1,717 | 513,367 | 323,607 | 20,799 | 344,406 | 6.04 | 63.04 | 67.09 | - | 1 | 3 | 9 | |
| Total of 3 Regions | | 45 | 8,275 | 1,613,641 | 672,646 | 45,989 | 718,635 | 42 | 8,067 | 1,502,808 | 737,096 | 56,104 | 793,200 | 7.07 | 49.05 | 52.78 | - | 3 | 18 | 21 | |

Summary of Ongoing Sub-projects

6th. Trimester As of 14 March 2018 (2074 Fagun Masant)

Ecology wise

| Ecology | Region | Ongoing End of 5th trim (15 Nov. 2017) | | | | | | Ongoing End of 6th trim (15 March 2018) | | | | | | | | | | | | | |
|--------------------|--------|--|--------|--|-------------|----------------------------|--|---|--------|--|-------------|----------------------------|--|--|-------------------------|-------------------------|---------------------|-------------|------|----|----|
| | | Approved Estimate | | | Expenditure | | | Approved Estimate | | | Expenditure | | | WUA Contri. Evaluated wrt expenditur | Financial | | Progress Status (%) | | | | |
| | | Nos | CA(ha) | Total Estimate (DOI+WUA contrib.) | Dol | WUA Contri Evaluated | Total Expen. (DOI+WUA Contri) | Nos | CA(ha) | Total Estimate (DOI+WUA contrib.) | Dol | WUA Contri Evaluated | Total Expen. (DOI+WUA Contri) | | Exclu. WUA Contri | Inclu. WUA Contri | Initial Stage | <50% 80% | >80% | | |
| Mountain | WR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | MWR | 7 | 423 | 241,112 | 77,153 | 9,080 | 86,234 | 6 | 395 | 223,084 | 78,465 | 9,080 | 87,545 | 10.37 | 35.17 | 39.24 | - | - | 4 | 2 | |
| | FWR | 7 | 342 | 118,936 | 60,409 | 3,697 | 64,106 | 7 | 342 | 118,936 | 67,677 | 4,162 | 71,838 | 5.79 | 56.90 | 60.40 | - | 1 | 1 | 5 | |
| | Total | 14 | 765 | 360,048 | 137,562 | 12,777 | 150,340 | 13 | 737 | 342,020 | 146,141 | 13,242 | 159,384 | 8.31 | 42.73 | 46.60 | - | 1 | 5 | 7 | |
| Hill | WR | 7 | 545 | 148,931 | 59,431 | 3,924 | 63,355 | 7 | 545 | 148,931 | 77,757 | 5,467 | 83,225 | 6.57 | 52.21 | 55.88 | - | 1 | 1 | 5 | 5 |
| | MWR | 7 | 435 | 174,505 | 78,516 | 4,287 | 82,803 | 6 | 415 | 116,408 | 88,644 | 5,089 | 93,733 | 5.43 | 76.15 | 80.52 | - | - | 3 | 3 | |
| | FWR | 3 | 375 | 153,693 | 113,544 | 10,457 | 124,001 | 3 | 375 | 153,693 | 115,633 | 10,457 | 126,090 | 8.29 | 75.24 | 82.04 | - | - | - | 3 | 3 |
| | Total | 17 | 1,355 | 477,129 | 251,491 | 18,668 | 270,159 | 16 | 1,335 | 419,032 | 282,034 | 21,013 | 303,047 | 6.93 | 67.31 | 72.32 | - | 1 | 4 | 11 | 11 |
| Terai | WR | 4 | 3,060 | 225,250 | 87,324 | 9,717 | 97,041 | 4 | 3,060 | 225,250 | 98,516 | 9,717 | 108,232 | 8.98 | 43.74 | 48.05 | - | - | 3 | 1 | 1 |
| | MWR | 2 | 375 | 109,957 | 30,952 | 3,042 | 33,994 | 2 | 375 | 109,957 | 30,952 | 3,042 | 33,994 | 8.95 | 28.15 | 30.92 | - | - | 1 | 1 | 1 |
| | FWR | 1 | 600 | 134,986 | 80,294 | 829 | 81,122 | 1 | 600 | 134,986 | 82,894 | 829 | 83,722 | 0.99 | 61.41 | 62.02 | - | - | - | 1 | 1 |
| | Total | 7 | 4,035 | 470,192 | 198,570 | 13,587 | 212,157 | 7 | 4,035 | 470,192 | 212,362 | 13,587 | 225,949 | 6.01 | 45.16 | 48.05 | - | - | 4 | 3 | 3 |
| GW | WR | 2 | 1,240 | 84,978 | 14,509 | - | 14,509 | 2 | 1,240 | 84,978 | 28,689 | 2,909 | 31,598 | 9.21 | 33.76 | 37.18 | - | 1 | 1 | 1 | - |
| | MWR | 3 | 480 | 115,541 | 29,322 | - | 29,322 | 2 | 320 | 80,833 | 10,467 | - | 10,467 | - | 12.95 | 12.95 | - | - | 2 | 2 | - |
| | FWR | 2 | 400 | 105,752 | 41,191 | 956 | 42,148 | 2 | 400 | 105,752 | 57,404 | 5,352 | 62,756 | 8.53 | 54.28 | 59.34 | - | - | 2 | 2 | - |
| | Total | 7 | 2,120 | 306,271 | 85,023 | 956 | 85,979 | 6 | 1,960 | 271,563 | 96,559 | 8,261 | 104,821 | 7.88 | 35.56 | 38.60 | - | 1 | 5 | 5 | - |
| Total of 3 Regions | | 45 | 8,275 | 1,613,641 | 672,646 | 45,989 | 718,635 | 42 | 8,067 | 1,502,808 | 737,096 | 56,104 | 793,200 | 7.07 | 49.05 | 52.78 | - | 3 | 18 | 21 | 21 |

IWRMP-AF

| Region | Total Nos. of SPs Taken up | | | Completed | | | | | | | | On-going-End of 6th trimester | | | | | Progress status (%) | | | | | | |
|--------------------|----------------------------|---------|----------------------|---|---------|----------------------|--------------------------|-------------------|----------------------|--|-------------------|-------------------------------|-----------|----------------------|----------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|--------------|------|-----|----|
| | | | | End of 5th. Trimester (15 Nov. 2017) | | | During 6th. Trimester | | | End of 6th. Trimester (15 March 2018) | | Nos. | CA (ha) | Approved Estimate | Expenditure | WUA contri Evaluated (%) | Financial Progress (%) | | <50% | 50% - 80% | >80% | | |
| | Nos. | CA (ha) | Total Compl. Cost | Nos | CA (ha) | Nos | CA(ha) | Total Estimate | Total Compl. Cost | | | | | | | | | | | | | | |
| WR | Ecology | Nos. | CA (ha) | Nos. | CA (ha) | Total Compl. Cost | Nos | CA (ha) | Nos | CA(ha) | Total Estimate | Total Compl. Cost | Nos. | CA (ha) | Approved Estimate | Expenditure | WUA contri Evaluated (%) | Exclu. WUA contri | Inclu. WUA contri | Nos | Nos | Nos | |
| | Mountain | 3 | 117 | 3 | 117 | 32,852 | - | - | 3 | 117 | 43,846 | 32,852 | - | - | - | - | - | - | - | - | - | | |
| | Hill | 28 | 1,780 | 21 | 1,235 | 316,194 | - | - | 21 | 1,235 | 399,137 | 316,194 | 7 | 545 | 148,931 | 83,225 | 6.57 | 52.21 | 55.88 | 1 | 1 | 5 | |
| | Terai | 7 | 4,315 | 3 | 1,255 | 171,041 | - | - | 3 | 1,255 | 208,524 | 171,041 | 4 | 3,060 | 225,250 | 108,232 | 8.98 | 43.74 | 48.05 | - | 3 | 1 | |
| | GW | 4 | 4,700 | 2 | 3,122 | 103,730 | - | - | 2 | 3,122 | 176,426 | 103,730 | 2 | 1,240 | 84,978 | 31,598 | 9.21 | 33.76 | 37.18 | 1 | 1 | - | |
| | Total | 42 | 10,912 | 29 | 5,729 | 623,818 | - | - | 29 | 5,729 | 827,932 | 623,818 | 13 | 4,845 | 459,159 | 223,055 | 8.11 | 44.64 | 48.58 | 2 | 5 | 6 | |
| MWR | Mountain | 7 | 423 | - | - | - | 1 | 28 | 1 | 28 | 18,028 | 11,917 | 6 | 395 | 223,084 | 87,545 | 10.37 | 35.17 | 39.24 | - | 4 | 2 | |
| | Hill | 18 | 900 | 11 | 465 | 147,607 | 1 | 20 | 12 | 485 | 215,279 | 157,846 | 6 | 415 | 116,408 | 93,733 | 5.43 | 76.15 | 80.52 | - | 3 | 3 | |
| | Terai | 8 | 2,368 | 6 | 1,993 | 231,476 | - | - | 6 | 1,993 | 296,662 | 237,246 | 2 | 375 | 109,957 | 33,994 | 8.95 | 28.15 | 30.92 | - | 1 | 1 | |
| | GW | 5 | 1,480 | 2 | 880 | 56,880 | 1 | 160 | 3 | 1,040 | 109,149 | 75,705 | 2 | 320 | 80,833 | 10,467 | - | 12.95 | 12.95 | - | 2 | - | |
| | Total | 38 | 5,171 | 19 | 3,338 | 435,963 | 3 | 208 | 22 | 3,546 | 639,119 | 482,715 | 16 | 1,505 | 530,282 | 225,739 | 7.62 | 39.32 | 42.57 | - | 10 | 6 | |
| FWR | Mountain | 8 | 403 | 2 | 61 | 17,875 | - | - | 2 | 61 | 24,028 | 17,875 | 7 | 342 | 118,936 | 71,838 | 5.79 | 56.90 | 60.40 | 1 | 1 | 5 | |
| | Hill | 12 | 680 | 8 | 305 | 106,522 | - | - | 8 | 305 | 124,411 | 106,522 | 3 | 375 | 153,693 | 126,090 | 8.29 | 75.24 | 82.04 | - | - | 3 | |
| | Terai | 3 | 1,223 | 2 | 623 | 63,355 | - | - | 2 | 623 | 98,078 | 63,355 | 1 | 600 | 134,986 | 83,722 | 0.99 | 61.41 | 62.02 | - | - | 1 | |
| | GW | 2 | 400 | - | - | - | - | - | - | - | - | - | - | 2 | 400 | 105,752 | 62,756 | 8.53 | 54.28 | 59.34 | - | 2 | - |
| | Total | 25 | 2,706 | 12 | 989 | 187,752 | - | - | 12 | 989 | 246,517 | 187,752 | 13 | 1,717 | 513,367 | 344,406 | 6.04 | 63.04 | 67.09 | 1 | 3 | 9 | |
| Total of 3 Regions | | | 105 | 18,789 | 60 | 10,056 | 1,247,533 | 3 | 208 | 63 | 10,264 | 1,713,567 | 1,294,284 | 42 | 8,067 | 1,502,808 | 793,200 | 7.07 | 49.05 | 52.78 | 3 | 18 | 21 |

IWRMP-AF
Project Implementation Scenario
As of 14 March, 2018 (Fagun 2074)
Ecology wise

| Ecology | Total Nos. of SPs Taken up | | | Completed | | | | | | | | | | On-going-End of 6th trimester | | | | | | Progress status (%) | | |
|---------------------------|----------------------------|------------|---------------|---|---------------|-------------------|-----------------------|------------|-----------|--|------------------|-------------------|-----------|-------------------------------|-------------------|----------------|---------------|------------------|------------------------|---------------------|-----------|-----------|
| | | | | End of 5th. Trimester (15 Nov. 2017) | | | During 6th. Trimester | | | End of 6th. Trimester (15 March 2018) | | | Nos. | CA (ha) | Approved Estimate | Expenditure | WUA contri | | Financial Progress (%) | <50% | 50% - 80% | >80% |
| | Region | Nos. | CA (ha) | Nos. | CA (ha) | Total Compl. Cost | Nos | CA (ha) | Nos | CA(ha) | Total Estimate | Total Compl. Cost | | | | | Evaluated (%) | Exclu WUA contri | Inclu WUA contri | | | |
| Mountain | WR | 3 | 117 | 3 | 117 | 32,852 | - | - | 3 | 117 | 43,846 | 32,852 | - | - | - | - | - | - | - | - | - | - |
| | MWR | 7 | 423 | - | - | - | 1 | 28 | 1 | 28 | 18,028 | 11,917 | 6 | 395 | 223,084 | 87,545 | 10.4 | 35.17 | 39.24 | - | 4 | 2 |
| | FWR | 8 | 403 | 2 | 61 | 17,875 | - | - | 2 | 61 | 24,028 | 17,875 | 7 | 342 | 118,936 | 71,838 | 5.8 | 56.90 | 60.40 | 1 | 1 | 5 |
| | Total | 18 | 943 | 5 | 178 | 50,728 | 1 | 28 | 6 | 206 | 85,902 | 62,645 | 13 | 737 | 342,020 | 159,384 | 8.31 | 42.73 | 46.60 | 1 | 5 | 7 |
| Hill | WR | 28 | 1,780 | 21 | 1,235 | 316,194 | - | - | 21 | 1,235 | 399,137 | 316,194 | 7 | 545 | 148,931 | 83,225 | 6.6 | 52.21 | 55.88 | 1 | 1 | 5 |
| | MWR | 18 | 900 | 11 | 465 | 147,607 | 1 | 20 | 12 | 485 | 215,279 | 157,846 | 6 | 415 | 116,408 | 93,733 | 5.4 | 76.15 | 80.52 | - | 3 | 3 |
| | FWR | 12 | 680 | 8 | 305 | 106,522 | - | - | 8 | 305 | 124,411 | 106,522 | 3 | 375 | 153,693 | 126,090 | 8.3 | 75.24 | 82.04 | - | - | 3 |
| | Total | 58 | 3,360 | 40 | 2,005 | 570,323 | 1 | 20 | 41 | 2,025 | 738,827 | 580,562 | 16 | 1,335 | 419,032 | 303,047 | 6.93 | 67.31 | 72.32 | 1 | 4 | 11 |
| Terai | WR | 7 | 4,315 | 3 | 1,255 | 171,041 | - | - | 3 | 1,255 | 208,524 | 171,041 | 4 | 3,060 | 225,250 | 108,232 | 9.0 | 43.74 | 48.05 | - | 3 | 1 |
| | MWR | 8 | 2,368 | 6 | 1,993 | 231,476 | - | - | 6 | 1,993 | 296,662 | 237,246 | 2 | 375 | 109,957 | 33,994 | 8.9 | 28.15 | 30.92 | - | 1 | 1 |
| | FWR | 3 | 1,223 | 2 | 623 | 63,355 | - | - | 2 | 623 | 98,078 | 63,355 | 1 | 600 | 134,986 | 83,722 | 1.0 | 61.41 | 62.02 | - | - | 1 |
| | Total | 18 | 7,906 | 11 | 3,871 | 465,872 | - | - | 11 | 3,871 | 603,264 | 471,642 | 7 | 4,035 | 470,192 | 225,949 | 6.01 | 45.16 | 48.05 | - | 4 | 3 |
| GW | WR | 4 | 4,700 | 2 | 3,122 | 103,730 | - | - | 2 | 3,122 | 176,426 | 103,730 | 2 | 1,240 | 84,978 | 31,598 | 9.2 | 33.76 | 37.18 | 1 | 1 | - |
| | MWR | 5 | 1,480 | 2 | 880 | 56,880 | 1 | 160 | 3 | 1,040 | 109,149 | 75,705 | 2 | 320 | 80,833 | 10,467 | - | 12.95 | 12.95 | - | 2 | - |
| | FWR | 2 | 400 | - | - | - | - | - | - | - | - | - | 2 | 400 | 105,752 | 62,756 | 8.5 | 54.28 | 59.34 | - | 2 | - |
| | Total | 11 | 6,580 | 4 | 4,002 | 160,610 | 1 | 160 | 5 | 4,162 | 285,575 | 179,436 | 6 | 1,960 | 271,563 | 104,821 | 7.88 | 35.56 | 38.60 | 1 | 5 | - |
| Total of 3 Regions | | 105 | 18,789 | 60 | 10,056 | 1,247,533 | 3 | 208 | 63 | 10,264 | 1,713,567 | 1,294,284 | 42 | 8,067 | 1,502,808 | 793,200 | 7.073 | 49.05 | 52.78 | 3 | 18 | 21 |

ANNEX 2
INSTITUTIONAL DEVELOPMENT

Details of IDF under IWRMP-AF in Western Region

Initiation August, 2016 and Last Updated: 19 April, 2018

Annex-2

| SN | Eco Region | District | Name of Subproject | Status | IDF Progress % | | | Updated record |
|----|------------|--------------|----------------------|-----------|----------------|----------------|---------|------------------------------|
| | | | | | Phase 1 | Phase 2 | Phase 3 | |
| | | | | | (Preparatory) | (Construction) | (O&M) | |
| 1 | Mountain | Mustang | Syang | Completed | 73 | 8 | 38 | 5 April, 2017 |
| 2 | Mountain | Mustang | Jhongputak | On-going | 82 | 50 | 38 | 6 April, 2017 |
| 3 | Mountain | Manang | Tilche | Completed | 64 | 33 | 38 | 24 May, 2017 |
| 4 | Hills | Lamjung | Bhangrebesi | On-going | 73 | 42 | 38 | 27 May, 2017 |
| 5 | Hills | Lamjung | Kisedi | On-going | 82 | 58 | 38 | 28 May, 2017 |
| 6 | Hills | Kaski | Tallodabake | On-going | 73 | 17 | 38 | 14 April, 2017; 27 Aug, 2017 |
| 7 | Hills | Parbat | Aguwakhola | Completed | 73 | 25 | 50 | 2 June, 2017 |
| 8 | Hills | Parbat | Sibdichiluwa | Completed | 82 | 17 | 50 | 31 May, 2017 |
| 9 | Hills | Parbat | Gyadi | On-going | 64 | 42 | 38 | 29 May, 2017 |
| 10 | Hills | Parbat | Ratikhola | On-going | 64 | 42 | 38 | 30 May, 2017 |
| 11 | Hills | Gulmi | Jherdikhola | Completed | 100 | 50 | 38 | 10 April, 2017 |
| 12 | Hills | Gulmi | Rumta Aambote | On-going | 73 | 33 | 50 | 11 April, 2017 |
| 13 | Hills | Myagdi | 23 Sale Kulo | Completed | 82 | 33 | 63 | 25 Aug, 2017 |
| 14 | Hills | Kaski | Kotrekafaltar | Completed | 91 | 50 | 63 | 28 Aug, 2017 |
| 15 | Hills | Tanahun | Bilmade | Completed | 100 | 67 | 63 | 29 Aug, 2017 |
| 16 | Hills | Tanahun | Bhanu Baraha | Completed | 100 | 50 | 50 | 30 Aug, 2017 |
| 17 | Hills | Palpa | Itiya Khola | Completed | 73 | 42 | 43 | 16 Nov, 2017 |
| 18 | Hills | Palpa | Serakhet | Completed | 73 | 25 | 29 | 18 Nov, 2017 |
| 19 | Hills | Palpa | Gairapanari Binapate | Completed | 73 | 42 | 29 | 19 Nov, 2017 |
| 20 | Hills | Palpa | Sardewa | Completed | 73 | 25 | 29 | 17 Nov, 2017 |
| 21 | Terai (S) | Nawalparasi | Bhedabari | On-going | 64 | 33 | 50 | 2 Sept, 2017 |
| 22 | Terai (S) | Nawalparasi | Tokre | Completed | 82 | 67 | 63 | 2 Sept, 2017 |
| 23 | Terai (S) | Nawalparasi | Bhorlabas | On-going | 64 | 8 | 63 | 3 Sept, 2017 |
| 24 | Terai (GW) | Nawalparasi | Petbaniya (DTW) | On-going | 55 | 8 | 0 | 4 Sept, 2017 |
| 25 | Hills | Gorkha | Pokharatar | On going | 82 | 50 | 43 | 24-Feb-18 |
| 26 | Hills | Gorkha | Bakrang Besi | On going | 73 | 8 | 14 | 23-Feb-18 |
| 27 | Hills | Kaski | Dhiprangbesi | On going | 73 | 8 | 0 | 26-Jan-18 |
| 28 | Hills | Syangja | Kamtitar | Completed | 55 | 8 | 29 | 28-Feb-18 |
| 29 | Hills | Arghakhanchi | Damaidhunga | Completed | 82 | 50 | 29 | 25-Jan-18 |
| 30 | Hills | Arghakhanchi | Kopche Damare | Completed | 91 | 50 | 43 | 24-Jan-18 |
| 31 | Terai (S) | Kapilvastu | Madwan Sikari | Completed | 73 | 17 | 14 | 20-Dec-17 |
| 32 | Terai (S) | Kapilvastu | Bharai khola | Completed | 73 | 33 | 29 | 21-Dec-17 |
| 33 | Terai (S) | Rupandehi | Itiyakulo | On going | 82 | 58 | 43 | 22-Dec-17 |
| 34 | Terai (S) | Rupandehi | Jhimjhime | On going | 73 | 50 | 14 | 23-Dec-17 |

Details of IDF under IWRMP-AF in Mid-Western Region

Initiation August, 2016 and Last Updated: 19 April, 2018

Annex-2

| SN | Eco Region | District | Name of Subproject (AF) | Status | IDF Progress (%) | | | Updated record |
|----|------------|----------|-------------------------|-----------|------------------|----------------|---------|---|
| | | | | | Phase 1 | Phase 2 | Phase 3 | |
| | | | | | (Preparatory) | (Construction) | (O&M) | |
| 1 | Hill | Rukum | Sakure | Completed | 73 | 67 | 57 | 15 June, 2016 |
| 2 | Hill | Salyan | Darimjiula | Completed | 73 | 67 | 57 | 14 June, 2016 |
| 3 | Hill | Surkhet | Jharkhet | Completed | 82 | 75 | 57 | 29 June, 2016 |
| 4 | Terai (S) | Dang | Bahundanda | Ongoing | 92 | 73 | 43 | 17 June-2016; 26 Nov, 2016; 20 Feb, 2017; 29 July, 2017; |
| 5 | Hill | Dailekh | Khari Gaira TaraChaur | Ongoing | 73 | 42 | 14 | 13 Nov, 2016; |
| 6 | Hill | Jajarkot | SaniChaur | Ongoing | 82 | 42 | 14 | 15 Nov, 2016; |
| 7 | Hill | Rukum | ChhipraKhola | Ongoing | 73 | 50 | 14 | 23 Nov, 2016; |
| 8 | Hill | Pyuthan | Pidalnephant | Ongoing | 82 | 75 | 29 | 23 Feb, 2017; 18 Nov, 2017; |
| 9 | Hill | Pyuthan | Lamashera | Ongoing | 82 | 75 | 29 | 23 Feb, 2017; 19 Nov, 2017; |
| 10 | Terai (S) | Banke | Paruwa | Completed | 83 | 75 | 57 | 01 Dec, 2016; 15 Oct, 2017; |
| 11 | Terai (S) | Banke | Thure | Completed | 100 | 82 | 57 | 02 Dec, 2016; 16 Oct, 2017; |
| 12 | Terai (S) | Dang | Ratgyainya | Completed | 91 | 67 | 57 | 19 Feb, 2017; 06 June, 2017; |
| 13 | Terai (S) | Bardiya | Ambasa Balanti | Completed | 92 | 82 | 43 | 18 Jan, 2017; 17 Oct, 2017; |
| 14 | Terai (GW) | Dang | Dhanauri/DTW | Ongoing | 64 | 42 | 13 | 25 Nov, 2016; |
| 15 | Terai (GW) | Banke | Radhapur Sitapur/DTW | Completed | 73 | 67 | 63 | 18 Jan, 2017; 17 Oct, 2017; |
| 16 | Terai (GW) | Bardiya | SanoShree/DTW | Completed | 75 | 67 | 63 | 18 Jan, 2017; 17 Oct, 2017; |
| 17 | Terai (GW) | Dang | Bela/DTW | Ongoing | 83 | 75 | 38 | 18 Feb, 2017; 28 July, 2017; |
| 18 | Hill | Rolpa | Manghat | Completed | 82 | 75 | 57 | 09 June, 2017; |
| 19 | Hill | Rolpa | Oat | Completed | 82 | 75 | 57 | 10 June, 2017; |
| 20 | Hill | Surkhet | MalaRani Sahare (KBIRD) | Ongoing | 73 | 67 | 43 | 16 Jan, 2017; 31 March, 2017; |
| 21 | Hill | Surkhet | Mathillo Bahuni Chaur | Completed | 100 | 83 | 43 | 17 Jan, 2017; 02 April-2017; |
| 22 | Hill | Surkhet | Gamkhola Kholte Pani | Completed | 100 | 92 | 86 | 03 April, 2017; 05 May, 2017; |
| 23 | Terai (S) | Bardiya | Batule Kurule | Completed | 82 | 75 | 57 | 05 March, 2017; 04 April, 2017; |
| 24 | Terai (S) | Dang | Lohadabre | Completed | 91 | 75 | 57 | 19 Feb, 2017; 06 June, 2017; |
| 25 | Mountain | Jumla | Laudisim | On going | 75 | 64 | 29 | 16 Nov, 2017; |
| 26 | Hill | Pyuthan | Gharikulo | Completed | 83 | 64 | 57 | 16 Nov, 2017; |
| 27 | Hill | Pyuthan | Gartumkhola | Completed | 100 | 82 | 57 | 17 Nov, 2017; |
| 28 | Terai (S) | Dang | BabarPur Jaluke | On going | 100 | 73 | 29 | 14 Sept, 2017; |
| 29 | Terai (GW) | Bardiya | SanoShree Taratal/DTW | On going | 75 | 64 | 25 | 27 July, 2017; |
| 30 | Mountain | Jumla | GiriKhola | On going | 73 | 50 | 57 | Nov. 16, 2017 |
| 31 | Hills | Salyan | TatkeKulo | On going | 91 | 75 | 57 | 16-Feb-18 |
| 32 | Hills | Rukum | Chauke Takuri | Completed | 82 | 75 | 57 | 19-Feb-18 |

Details of IDF under IWRMP-AF in Far-Western Region

Initiation August, 2016 and Last Updated: 19 April, 2018

Annex-2

| SN | Eco Region | District | Name of Subproject | Status | IDF Progress in % | | | Updated record |
|----|------------|------------|----------------------|-----------|-------------------|----------------|---------|---|
| | | | | | Phase 1 | Phase 2 | Phase 3 | |
| | | | | | (Preparatory) | (Construction) | (O&M) | |
| 1 | Mountain | Darchula | Naktad | Ongoing | 83 | 50 | 29 | 17 May, 2016 17 Nov, 2016 |
| 2 | Hill | Baitadi | Nwali | Ongoing | 83 | 50 | 29 | 17 May, 2016, 08 Feb. 2017 |
| 3 | Hill | Dadeldhura | Baduwa | Completed | 100 | 67 | 57 | 16 May, 2016; 07 Feb., 2017 |
| 4 | Hill | Dadeldhura | Jogijala | Completed | 100 | 58 | 29 | 07 Jun., 2016, |
| 5 | Hill | Dadeldhura | Dhittadi | Ongoing | 83 | 42 | 43 | 08 Feb., 2017 |
| 6 | Terai (S) | Kanchanpur | Kalapani | Ongoing | 83 | 50 | 29 | 14 June, 2016; 30 Aug., 2016; 03 Feb., 2017; 14 Oct, 2017; |
| 7 | Terai (S) | Kanchanpur | Bagun | Completed | 83 | 83 | 43 | 15 June, 2016; 16 Oct, 2017: |
| 8 | Mountain | Bajhang | Subeda Tallo Jiula | completed | 83 | 50 | 57 | 23 Nov., 2016 |
| 9 | Mountain | Bajhang | Bhairabnath | Ongoing | 83 | 50 | 57 | 23 Nov., 2016 |
| 10 | Mountain | Bajhang | Subeda Mallo Jiula | ongoing | 75 | 42 | 29 | 24 Nov., 2016 |
| 11 | Hill | Baitadi | Limuda | completed | 83 | 50 | 43 | 08 Feb, 2017 |
| 12 | Terai (S) | Kailali | Ratipur | completed | 83 | 67 | 43 | 30 Aug, 2016; 04 Feb, 2017; 19 May, 2017; 10 Oct., 2017; |
| 13 | Mountain | Bajhang | Deura Jupalikhet | Ongoing | 67 | 50 | 14 | 22 Nov., 2016 |
| 14 | Mountain | Bajura | Bhaunera | Ongoing | 67 | 50 | 14 | 26 Nov., 2016 |
| 15 | Hill | Baitadi | Kotedigad | Ongoing | 83 | 58 | 14 | 16 Nov., 2016; 24 May, 2017; 12 Sept., 2017; |
| 16 | Terai (GW) | Kailali | Sandepani DTW | Ongoing | 83 | 75 | 43 | 28 Aug., 2016; 04 Feb. 2017; 12 Oct., 2017; |
| 17 | Mountain | Darchula | Pantpali Binakoirali | Ongoing | 67 | 17 | 8 | 26 May. 2017; |
| 18 | Hills | Dadeldhura | Bhittesal | Completed | 100 | 73 | 43 | 23 May. 2017; 16 Sept., 2017; |
| 19 | Hills | Doti | Dhanraskhet | Completed | 83 | 73 | 43 | 22 May, 2017 |
| 20 | Hills | Doti | Kadamandau | Ongoing | 83 | 55 | 29 | 27 Apr., 2017 |
| 21 | Hills | Doti | Kalapathhreswor | Ongoing | 83 | 55 | 14 | 28 Apr., 2017 |
| 22 | Mountain | Darchula | Goladi | Completed | 100 | 42 | 75 | 28 Jan. 2018 |
| 23 | Terai (GW) | Kanchanpur | Suda | Ongoing | 82 | 67 | 50 | 25 Feb, 2018; 09 Jan, 2018; 22 Aug, 2017; 15 June, 2017 |
| 24 | Hill | Baitadi | Manekuda | Completed | 82 | 33 | 38 | 16 Mar. 2018 |

ANNEX 3

AGRICULTURE DEVELOPMENT

Annex

Agriculture Extension Activities

| Activities | Previous Total | 6 th Trimester | | | | Total to Date |
|----------------|-------------------|---------------------------|----------|----------|-------|------------------|
| | | West | Mid-West | Far West | Total | |
| Seasonal Pla | 117 | 0 | 0 | | 0 | 117 |
| FFS | 40 | 1 | 3 | 2 | 6 | 46 |
| Demonstratio | 270 | 20 | 39 | 17 | 76 | 346 |
| Training | 133 | 20 | 8 | 11 | 39 | 172 |
| Income Gene | 50 | 2 | 7 | 3 | 12 | 62 |
| Seed multiplic | 291 | 8 | 9 | 6 | 23 | 314 |
| SP visits to F | 33 | 0 | 0 | 18 | 18 | 51 |
| Coordination | 82 | 9 | 2 | 3 | 14 | 96 |
| Small Machin | 116 | 0 | 0 | | 0 | 116 |
| Cowshed Ma | 75 | 1 | 27 | | 28 | 103 |
| Plastic Tunne | 195 | 1 | 2 | 14 | 17 | 212 |
| Youth Employ | 107 | 0 | 0 | 1 | 1 | 108 |

Annex: PRODUCTIVITY DATA OF MAIN CROPS COMPILED FOR 34 ISPs, 2016-17

| S.No. | District | ISPs | Paddy | | Wheat | | Maize | | Potato | | Vegetables | |
|------------------------|------------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | Baseline | Current | Baseline | Current | Baseline | Current | Baseline | Current | Baseline | Current |
| | | | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) |
| MOUNTAIN Completed SPs | | | | | | | | | | | | |
| 1 | Mustang | Jhong Putak ISP | | | 1.50 | 1.80 | 0.90 | 1.40 | 8.00 | 14.00 | 7.00 | 12.00 |
| 2 | | Syang ISP | | | 1.50 | 1.80 | 2.00 | 2.70 | 9.00 | 23.50 | 8.00 | 13.00 |
| 3 | Darchula | Golladi | 2.10 | 3.30 | 1.80 | 3.00 | 1.90 | 2.40 | 5.20 | 13.00 | 5.00 | 12.76 |
| | MOUNTAIN Average 3 SPs | | 2.1 | 3.3 | 1.60 | 2.20 | 1.60 | 2.17 | 7.40 | 16.83 | 6.67 | 12.59 |
| HILL Completed SPs | | | | | | | | | | | | |
| 1 | Lamjung | Bangrebesi ISP* | 2.80 | 3.70 | 2.90 | 3.00 | 2.50 | 2.90 | 12.50 | 14.50 | 13.00 | 15.50 |
| 2 | Tanahun | Bhanu Barah ISP | 2.20 | 2.20 | 1.40 | 2.10 | 1.40 | 2.50 | 6.00 | 9.00 | 7.00 | 15.00 |
| 3 | | Bilmade/MulpaniPatr | 3.20 | 3.80 | 1.70 | 3.00 | 2.10 | 2.50 | 8.50 | 14.00 | 9.00 | 10.00 |
| 4 | Kaski | Kotre Kafaltar ISP | 2.50 | 3.20 | 2.50 | 2.00 | 1.60 | 2.30 | 6.00 | 11.00 | 6.00 | 10.50 |
| 5 | Baglung | Chisti ISP | 2.60 | 3.70 | 2.10 | 2.10 | 2.10 | 2.50 | 8.00 | 12.00 | 8.00 | 12.00 |
| 6 | | Tallo Lamahi ISP | 2.60 | 2.80 | 2.10 | 2.20 | 2.10 | 2.30 | 8.00 | 11.00 | 8.00 | 9.00 |
| 7 | Parbat | Agawa Khola ISP | 2.50 | 2.90 | 3.20 | 3.20 | 1.10 | 2.90 | 7.20 | 14.00 | 6.00 | 12.00 |
| 8 | | Sibdi Chiluwa ISP | 2.50 | 2.60 | 3.20 | 3.20 | 1.10 | 1.20 | 7.20 | 10.50 | 6.00 | 10.00 |
| 9 | Syangja | AKWUA/Andhikhola | 2.75 | 3.80 | 2.50 | 3.10 | 2.00 | 2.60 | 9.50 | 16.50 | 8.70 | 13.50 |
| 10 | Gulmi | Jherdi Khola ISP | 3.11 | 3.70 | 4.25 | 4.20 | 2.63 | 2.90 | 14.71 | 20.20 | 0.00 | 12.00 |
| 11 | | Damkaphant/Sota IS | 2.30 | 3.50 | 1.60 | 2.90 | 1.70 | 3.20 | 10.00 | 18.00 | 12.00 | 32.00 |
| 12 | | Waaragati ISP | 3.11 | 4.70 | 4.66 | 4.30 | 2.35 | 2.50 | 18.33 | 21.00 | 8.50 | 14.90 |
| 13 | Palpa | Itiya Khola ISP | 3.20 | 3.80 | 2.10 | 2.80 | 2.20 | 2.30 | 10.00 | 15.00 | 10.50 | 13.00 |
| 14 | | Sardewa ISP | 3.75 | 3.90 | 2.85 | 2.90 | 2.50 | 2.60 | 10.50 | 14.00 | 11.00 | 13.50 |
| 15 | | Sheraphant ISP | 3.00 | 3.80 | 2.50 | 2.90 | 2.50 | 2.50 | 6.00 | 15.30 | 10.00 | 13.00 |
| 16 | | Gairapani/Binpate IS | 3.40 | 3.96 | 2.50 | 3.00 | 2.50 | 2.25 | 10.00 | 10.00 | 10.00 | 22.50 |
| 17 | Jajarkot | Chaukha Rauli Jyula | 2.20 | 2.40 | 1.50 | 2.00 | 2.00 | 2.40 | 7.00 | 9.00 | 8.00 | 9.00 |
| 18 | Pyuthan | Ghari kulo | 2.50 | 3.93 | 2.20 | 2.80 | 2.10 | 2.67 | 7.00 | 16.50 | 8.00 | 14.00 |
| 19 | Pyuthan | Gartung khola | 2.40 | 4.02 | 2.10 | 2.80 | 2.00 | 2.67 | 8.00 | 16.00 | 8.00 | 13.00 |
| 20 | Rolpa | Manghat | 2.30 | 2.56 | 2.10 | 2.30 | 2.10 | 2.45 | 8.00 | 12.50 | 8.00 | 9.00 |
| 21 | Surkhet | Jharkhet | 2.25 | 3.32 | 2.18 | 2.80 | 2.03 | 2.65 | 10.00 | 14.00 | 8.90 | 12.50 |

| S.No. | District | ISPs | Paddy | | Wheat | | Maize | | Potato | | Vegetables | |
|-------|----------|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | Baseline | Current | Baseline | Current | Baseline | Current | Baseline | Current | Baseline | Current |
| | | | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) | Yield (t/ha) |
| 22 | Surkhet | Mathillo Bahuni Chaur | 2.71 | 3.53 | 2.76 | 2.85 | 2.15 | 2.65 | 9.80 | 15.00 | 10.00 | 12.50 |
| 23 | Surkhet | Gamkhola Kholte Pani | 2.55 | 3.21 | 2.41 | 2.80 | 2.37 | 2.73 | 11.00 | 15.00 | 9.80 | 13.00 |
| 24 | Doti | Dhanraskhet | 1.70 | 3.30 | 1.80 | 2.50 | 1.80 | 2.50 | 5.00 | 15.00 | 10.00 | 15.00 |
| 25 | Baitadi | Nwali | 1.65 | 3.20 | 1.38 | 2.40 | 1.52 | 2.50 | 8.00 | 13.00 | 8.00 | 14.00 |
| | | HILL Average 25 SPS | 2.63 | 3.42 | 2.42 | 2.81 | 2.02 | 2.53 | 9.05 | 14.08 | 8.50 | 13.62 |
| | | TERAI Surface Completed SPS | | | | | | | | | | |
| 1 | | MadhwanSikari Khol | 2.40 | 3.20 | 2.10 | 2.50 | 2.00 | 3.00 | 8.00 | 14.00 | 8.00 | 12.20 |
| 2 | | Kapilvastu | 2.50 | 3.60 | 2.50 | 2.80 | 2.00 | 3.10 | 8.00 | 13.00 | 8.00 | 11.00 |
| 3 | | Nawalparasi | 3.00 | 3.70 | 1.90 | 2.00 | 4.30 | 5.10 | 10.90 | 15.00 | 11.30 | 13.00 |
| 4 | | Bardiya | 2.50 | 3.25 | 1.80 | 2.30 | 1.40 | 2.93 | 3.50 | 15.00 | 2.80 | 13.00 |
| 5 | | Bardiya | 2.40 | 2.80 | 1.65 | 1.65 | 1.60 | 1.70 | 8.00 | 10.00 | 8.00 | 9.00 |
| 6 | | Banke | 3.00 | 3.50 | 2.30 | 3.10 | 0.50 | 2.20 | 3.00 | 11.00 | 5.00 | 11.00 |
| 7 | | Banke | 2.40 | 2.40 | 1.60 | 1.60 | 1.50 | 1.65 | 8.00 | 10.00 | 8.00 | 10.00 |
| 8 | | Dang | 3.50 | 3.67 | 1.80 | 1.80 | 2.00 | 2.16 | 16.00 | 17.00 | 15.00 | 16.00 |
| 9 | | Dang | 2.50 | 3.50 | 2.00 | 2.40 | 2.80 | 3.40 | 10.00 | 13.00 | 8.00 | 12.00 |
| | | Average Terai Surface 9 SPS | 2.69 | 3.29 | 1.96 | 2.24 | 2.01 | 2.80 | 8.38 | 13.11 | 8.23 | 11.91 |
| | | Terai Ground Water Completed SPS | | | | | | | | | | |
| 1 | | Kapilvastu | 4.20 | 3.80 | 2.62 | 2.90 | 2.85 | 3.50 | 7.26 | 14.00 | 4.00 | 12.50 |
| 2 | | Rup. GW | 2.80 | 4.90 | 1.50 | 3.70 | 1.80 | 4.10 | 7.00 | 17.00 | 7.00 | 16.00 |
| 3 | | Bardiya | 2.40 | 3.98 | 1.80 | 2.70 | 1.60 | 2.85 | 6.30 | 11.00 | 5.00 | 11.00 |
| 4 | | Banke | 3.20 | 3.42 | 1.60 | 1.60 | 1.90 | 2.10 | 9.00 | 11.00 | 8.00 | 10.00 |
| | | Average Terai Ground Water | 3.15 | 4.03 | 1.88 | 2.73 | 2.04 | 3.14 | 7.39 | 13.25 | 6.00 | 12.38 |
| | | Average IWRMP 41 SPS | 2.68 | 3.45 | 2.21 | 2.63 | 1.99 | 2.62 | 8.62 | 13.99 | 8.06 | 13.05 |
| | | % Increase over Baseline | | 29 | | 19 | | 32 | | 62 | | 62 |

Cropping Intensity

| S. No. | District | ISPs | Cropping intensity% | |
|--------|-------------------------|-----------------------------|---------------------|------------|
| | | | Baseline | Current |
| | MOUNTAIN | | | |
| 1 | Mustang | Jhong Putak* | 96 | 108 |
| 2 | | Syang* | 74 | 114 |
| 3 | Darchula | Golladi | 158 | 220 |
| | MOUNTAIN Average | | 109 | 147 |
| 1 | Lamjung | Bangrebei* | 162 | 187 |
| 2 | Tanahun | Bhanu Barah ISP | 138 | 200 |
| 3 | | Bilmade/MulpaniPatne | 166 | 230 |
| 4 | Kaski | Kotre Kafaltar ISP | 161 | 192 |
| 5 | Baglung | Chisti ISP | 200 | 246 |
| 6 | | Tallo Lamahi ISP | 166 | 218 |
| 7 | Parbat | Aguwa Khola ISP | 167 | 200 |
| 8 | | Sibdi Chiluwa ISP | 169 | 184 |
| 9 | Syangja | Andhikhola (AKWUA) | 189 | 247 |
| 10 | Gulmi | Waoragati ISP | 230 | 264 |
| 11 | | Jherdi Khola ISP | 158 | 260 |
| 12 | | Damkaphant/Sota | 160 | 222 |
| 13 | Palpa | Itiya Khola ISP | 124 | 224 |
| 14 | | Sardewa ISP | 204 | 260 |
| 15 | | Sheraphant ISP | 142 | 177 |
| 16 | | Gairapani/Binpate | 251 | 286 |
| 17 | Jajarkot | Chaukha Rauli Jyula (27 ha) | 138 | 225 |
| 18 | Pyuthan | Ghari kulo | 143 | 200 |
| 19 | Pyuthan | Gartung khola | 122 | 185 |
| 20 | Rolpa | Manghat | 138 | 164 |
| 21 | Surkhet | Jharkhet | 188 | 221 |
| 22 | Surkhet | Mathillo Bahuni Chaur | 166 | 223 |
| 23 | Surkhet | Gamkhola Kholte Pani | 165 | 238 |
| 24 | Doti | Dhanraskhet | 114 | 191 |
| 25 | Baitadi | Nwali | 190 | 250 |
| | HILL Average | | 166 | 220 |
| 1 | Kapilvastu | Madhwan Sikari Khola | 122 | 186 |
| 2 | | Bharai Khola ISP | 145 | 231 |
| 3 | Nawalparasi | Tokare ISP | 181 | 208 |
| 4 | Bardiya | Batule- Kurule | 144 | 194 |
| 5 | Bardiya | Ambasa Balanti | 146 | 177 |
| 6 | Banke | Paruwa | 154 | 202 |
| 7 | Banke | Thure | 140 | 141 |
| 8 | Dang | Lohadabre | 201 | 212 |
| 9 | Dang | Ratgaiya | 127 | 147 |
| | TERAI Average | | 151 | 189 |
| 1 | Kapilvastu | Valwad DTW ISP | 165 | 179 |
| 2 | Rup. GW | BLGWP DTW Rehab_1 | 160 | 211 |
| 3 | Bardiya | Sanoshree DTW (New-6 Nos) | 140 | 169 |

| S. No. | District | ISPs | Cropping intensity% | |
|--------|--------------------------|--------------------------------------|---------------------|---------|
| | | | Baseline | Current |
| 4 | Banke | Radhapur Sitapur DTW- Reh.-19 Nos | 162 | 172 |
| | GW Average | | 157 | 183 |
| | IWRMP 41 SPs | | 158 | 204 |
| | % Increase over Baseline | | | 29 |

[illegible]

Farmers Participation in Extension

| | Previous | | Reporting Period | | | | | | Total to Date | |
|---------|------------|----------|------------------|-----|-----|-------|----|-----|---------------|----------|
| | No. | % | WR | MWR | FWR | Total | % | No. | % | |
| Events | 1,250 | | 62 | 97 | 75 | 234 | | | 1,484 | |
| Male | 4,579 | 50 | 433 | 63 | 231 | 728 | 45 | 45 | 5,307 | 49 |
| Female | 4,536 | 50 | 339 | 266 | 279 | 885 | 55 | 55 | 5,421 | 51 |
| Total | 9,114 | | 772 | 329 | 510 | 1,613 | | | 10,727 | |
| Janjati | 2,253 | 25 | 258 | 10 | 214 | 482 | 30 | 30 | 2,735 | 25 |
| Dalit | 629 | 7 | 36 | 15 | 54 | 105 | 7 | 7 | 734 | 7 |

ANNEX 4
SEMP IMPLEMENTATION

Summary Update (Nov 2017) of SEMP Issues for Completed AF Sub projects

| Region/Eco Belt | District | Sub Project | Issues (Nos) | No. of Mitigation Measures | | | |
|-----------------------------|------------|--------------------|--------------|----------------------------|------------|---------------|--------------------|
| | | | | Total | Compliant | Non Compliant | Status |
| (A) West | | | | | | March 018 | Updated |
| Mountain | Mustang | Syang | 9 | 9 | 7 | 2 | |
| | | Jhong Putak | 3 | 3 | 3 | 0 | |
| | Manang | Tiliche | 7 | 13 | 5 | 8 | |
| Sub Total (M) : | 2 | 3 | 19 | 25 | 15 | 10 | |
| Hill | | | | | | | |
| | Gulmi | Worogati Sanichaur | 6 | 7 | 7 | 0 | |
| | | Jherdi Khola | 6 | 7 | 7 | 0 | |
| | Parbat | SibdiChiluwa | 12 | 25 | 13 | 12 | |
| | | Aguwa Khola | 7 | 12 | 10 | 2 | |
| | | Damkaphant/So | 8 | 14 | 14 | 0 | |
| | Lamjung | Bangrebeshi | 4 | 6 | 6 | 0 | |
| | | KesidiLamabaga | 10 | 24 | 16 | 8 | |
| | Kaski | Kotare Kafaltar | 14 | 28 | 19 | 9 | |
| | Tanahu | BhanuBarah | 9 | 13 | 10 | 3 | |
| | | Bilmade Mulpan | 10 | 11 | 11 | 0 | |
| | Palpa | Itya Khola | 4 | 4 | 4 | 0 | |
| | | Serakhet | 12 | 23 | 22 | 1 | |
| | | Gairepanari | 4 | 8 | 6 | 2 | |
| | | Sardewa | 5 | 12 | 12 | 0 | |
| | Baglung | TalloLamahiPha | 11 | 16 | 10 | 6 | |
| | | Chisti | 12 | 16 | 15 | 1 | |
| | Syangja | Kamtitar | 16 | 29 | 0 | 29 | |
| | | Andhikhola | 6 | 14 | 8 | 6 | |
| | Arghakhan | KopcheDamare | 8 | 8 | 8 | 0 | |
| | | Damai Dhunga | 6 | 7 | 7 | 0 | |
| | Myagdi | 2023 Sale kulo | 9 | 11 | 8 | 3 | |
| Sub Total (H) : | 10 | 21 | 179 | 295 | 213 | 82 | |
| Terai (Surface) | Nawalpara | Tokare | 3 | 3 | 3 | 0 | |
| | Kapilvastu | MadwanSikariKl | 4 | 4 | 4 | 0 | |
| | | BharaiKhola | 4 | 4 | 4 | 0 | |
| Sub Total (Terai/S) | 2 | 3 | 11 | 11 | 11 | 0 | |
| Terai (GW) | Rupandehi | BLGWP | 6 | 9 | 0 | 9 | |
| | Kapilbastu | Valwad | 4 | 4 | 4 | 0 | |
| Sub Total (Terai/GW) | 2 | 2 | 10 | 13 | 4 | 9 | |
| Total West : | 16 | 29 | 219 | 344 | 243 | 101 | |
| Rating (%) WR: | | | | 100 | 71 | 29 | |
| (B) Mid West | | | | | | | |
| Mountain | Humla | Gangru Pinatha | 1 | 1 | 1 | 0 | Revised Sept. 2017 |
| Sub Total (M) : | 1 | 1 | 1 | 1 | 1 | 0 | |
| Hill | Surkhet | Jharkhet | 5 | 4 | 4 | 0 | Revised |

| | | | | | | | |
|-----------------------------|------------|-----------------|----------------|------------|------------|------------|------------|
| | | MathilloBahune | 2 | 5 | 3 | 2 | do |
| | | GamkholaKholte | 2 | 4 | 4 | 0 | do |
| | Jajarkot | Chaukha Rauli | 11 | 20 | 19 | 1 | |
| | | Sanichaur | 3 | 3 | 0 | 3 | |
| | Salyan | Darmi Jiula | 3 | 3 | 3 | 0 | |
| | Pyuthan | Gharikulo | 3 | 3 | 3 | 0 | |
| | | Gartung Khola | 8 | 17 | 17 | 0 | |
| | Rukum | Sakure | 4 | 6 | 5 | 1 | |
| | | Chauke Takuri | 4 | 6 | 6 | 0 | |
| | Rolpa | Manghat | 8 | 18 | 18 | 0 | |
| | | Oat | 12 | 26 | 25 | 1 | |
| Sub Total (H) : | | 6 | 13 | 65 | 115 | 107 | 8 |
| Tarai Surface | | Bardiya | Batule Kurule | 3 | 3 | 3 | 0 |
| | | Ambase-Balanti | 11 | 11 | 8 | 3 | |
| | Dang | Lohadabare | 5 | 6 | 6 | 0 | |
| | | Ratgainya | 4 | 6 | 6 | 0 | |
| | Banke | Thure | 12 | 14 | 14 | 0 | |
| | | Paruwa | 4 | 5 | 5 | 0 | |
| Sub Total (T/S) | | 3 | 6 | 39 | 45 | 42 | 3 |
| Tearai(GW) | | | | | | | |
| Tarai (GW) | | Banke | Radhapur Sitap | 18 | 24 | 18 | 6 |
| | Bardiya | Sanoshree (6 Tu | 11 | 16 | 16 | 0 | |
| | Dang | Bela DTW | 4 | 7 | 5 | 2 | |
| Sub Total (GW) | | 3 | 2 | 33 | 40 | 34 | 6 |
| Total Mid West : | | 13 | 22 | 138 | 201 | 184 | 17 |
| Rating (%) MWR : | | | | 100 | 92 | 8 | |
| Far West | | | | | | | |
| Mountain | Bajhang | Subeda Tallo | 5 | 5 | 4 | 1 | |
| | | Jiula | | | | | |
| | Darchula | Goiladi | 7 | 11 | 11 | 0 | |
| Sub-Total (M): | | 2 | 2 | 12 | 16 | 15 | 1 |
| Hill | Baitadi | Manekuda ISP | 6 | 12 | 12 | 0 | |
| | | Limuda | 4 | 4 | 4 | 0 | |
| | | Nawali | 9 | 9 | 8 | 1 | |
| | Dolti | Dhanras Khet | 4 | 5 | 5 | 0 | |
| | Dadeldhura | Dhittadi | 9 | 19 | 19 | 0 | |
| | | Badhuwa | 5 | 5 | 5 | 0 | |
| | | Jogijala | 7 | 15 | 15 | 0 | |
| | | Bhitte Sal ISP | 9 | 19 | 19 | 0 | |
| Total (H) : | | 3 | 8 | 53 | 88 | 87 | 1 |
| Tarai (Surface) | | Kailali | Ratipur | 11 | 11 | 11 | 0 |
| | Kanchanp | Bagun | 9 | 23 | 23 | 0 | |
| Total Terai (S) : | | 2 | 2 | 20 | 34 | 34 | 0 |
| Total Far West : | | 7 | 12 | 85 | 138 | 136 | 2 |
| Rating (%) FWR: | | | | 100 | 99 | 1 | |
| Grand Total : | | 36 | 63 | 442 | 683 | 563 | 120 |
| Overall Rating (%) : | | | | 100 | 82 | 18 | |

Summary Update (Nov 2017) of SEMP Issues for Ongoing AF Sub projects

| Region/Eco Belt | District | Sub Project | Issues (Nos) | No. of Mitigation Measures | | | |
|-------------------------|-------------|---------------------------|-----------------|----------------------------|---------------|----------------------|-----------------|
| | | | | Total | Comp liant | Non Complian t | Status |
| (A) West | | | | | | | |
| Sub Total (M) : | | | | | | | |
| Hill | | | | | | | |
| | Parbat | Gyandi ISP | 8 | 11 | 0 | 11 | |
| | Parbat | Rati Khola ISP | 11 | 12 | 0 | 12 | |
| | Gulmi | Rumta Ambot ISP | 5 | 11 | 2 | 9 | |
| | Gorkha | Pokharatar | 8 | 8 | 7 | 1 | |
| | Gorkha | BakrangBesi | 5 | 6 | 4 | 2 | |
| | Kaski | Dhiprangbesi | 10 | 18 | 17 | 1 | |
| | Kaski | Tallo Dabake ISP | 8 | 10 | 0 | 10 | |
| Sub Total (H) : | 4 | 7 | 55 | 76 | 30 | 46 | |
| Terai (Surface) | Nawalparasi | Bhedabari | 8 | 12 | 0 | 12 | |
| | Nawalparasi | Bhorlebas ISP | 8 | 11 | 0 | 11 | |
| | Rupandehi | Itiyakulo | 4 | 4 | 4 | 0 | |
| | Rupandehi | Jhimjhime | 4 | 5 | 5 | 0 | |
| Sub Total (Terai/S) | 2 | 4 | 24 | 32 | 9 | 23 | |
| Terai (GW) | | | | | | | |
| | Nawalparasi | Petbania | 5 | 6 | 0 | 6 | |
| | Rupandehi | BLGWP-Pahuni Madhubani | 8 | 10 | 0 | 10 | |
| Sub Total (Terai/GW) | 2 | 2 | 13 | 16 | 0 | 16 | |
| Total West : | 8 | 13 | 92 | 124 | 39 | 85 | |
| Rating (%) WR : | | | | 100 | 31 | 69 | |
| (B) Mid West | | | | | | | |
| Mountain | Humla | Maspatal | 2 | 2 | 2 | 0 | Revised |
| | Humla | Sarkegad ISP | 13 | 28 | 0 | 28 | |
| | Jumla | Laudism | 2 | 2 | 0 | 2 | |
| | Jumla | GiriKhola ISP | 3 | 6 | 5 | 1 | |
| | Mugu | Libru Khola | 3 | 3 | 0 | 3 | |
| | Dolpa | Kharpula ISP | 3 | 3 | 0 | 3 | |
| Sub Total (M) : | 4 | 6 | 26 | 44 | 7 | 37 | |
| Hill | Surkhet | MalaraniSahare | 2 | 6 | 4 | 2 | SEMP Revised |
| | Dailekh | Khairigaira ISP | 10 | 23 | 0 | 23 | |
| | Rukum | Chipra Khola | 2 | 2 | 0 | 2 | |
| | Salyan | Tatke Kulo | 5 | 6 | 0 | 6 | |
| | Pyuthan | Lamasera | 10 | 12 | 11 | 1 | |
| | | Pindali Phat | 6 | 6 | 5 | 1 | |
| Sub Total (H) : | 6 | 6 | 35 | 55 | 20 | 35 | |
| Terai (Surface) | Dang | Bahundanda | 7 | 8 | 8 | 0 | |
| | Dang | Babarpur ISP | 8 | 17 | 0 | 17 | |
| Sub Total (T/S) | 1 | 2 | 15 | 25 | 8 | 17 | |
| Tearai(GW) | Dang | Dhanauri DTW | 4 | 4 | 0 | 4 | Revised |
| | Bardia | Sanoshree Taratal | 10 | 19 | 0 | 19 | |
| Sub Total (GW) | 2 | 2 | 14 | 23 | 0 | 23 | |

| | | | | | | | |
|----------------------------|------------|--------------------|------------|------------|------------|------------|---------|
| Total Mid West : | 13 | 16 | 90 | 147 | 35 | 112 | |
| Rating (%) MWR: | | | | 100 | 24 | 76 | |
| Far West | | | | | | | |
| Mountain | Bajhang | Deura Juwalikhl | 3 | 3 | 0 | 3 | |
| | Bajhang | Bhairabnath | 4 | 5 | 5 | 0 | |
| | Bajhang | Subeda Mallo Jiula | 8 | 14 | 0 | 14 | |
| | Bajhang | Kuch | 8 | 14 | 14 | 0 | |
| | Bajura | Bhaunera | 4 | 4 | 0 | 4 | |
| | Darchula | Naktad | 4 | 6 | 6 | 0 | Revised |
| | Darchula | Pant Pali ISP | 11 | 20 | 0 | 20 | |
| Sub Total (M) : | 3 | 7 | 42 | 66 | 25 | 41 | |
| Hill | Baitadi | Koterigad ISP | 3 | 3 | 0 | 3 | |
| | Doti | Kadamandu | 2 | 2 | 0 | 2 | |
| | Doti | Kalapaththareswar | 2 | 2 | 0 | 2 | |
| Total (H) : | 2 | 3 | 7 | 7 | 0 | 7 | |
| Terai (Surface) | Kanchanpur | Kalapani | 3 | 3 | 0 | 3 | |
| Total Terai (S) : | 1 | 1 | 3 | 3 | 0 | 3 | |
| Terai (GW) | Kanchanpur | Suda DTW | 17 | 28 | 0 | 28 | |
| | Kailali | Sadhepani DTW | 17 | 17 | 17 | 0 | |
| Total Terai (GW) | 2 | 2 | 34 | 45 | 17 | 28 | |
| Total Far West : | 8 | 13 | 86 | 121 | 42 | 79 | |
| Rating (%) FWR: | | | | 100 | 35 | 65 | |
| Grand Total : | 29 | 42 | 268 | 392 | 116 | 276 | |
| Rating (%) Overall: | | | | 100 | 30 | 70 | |

ANNEX 5
REGIONAL TRIMESTER REPORTS

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

WESTERN REGION
IDCE TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

March 2018/Chait 2074

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1 PROJECT IMPLEMENTATION

1.1 Overall Physical Progress

Overall physical progress (reveals progress on civil work inclusive WUA contribution and SEMP remedial measures) on ecological belt can be summarised as following:

End of 6th Trimester:

3 ISPs in mountains are completed with weighting physical progress as 98%.

21 ISPs in Hills are completed with weighting physical progress as 94% whereas 7 ISPs in Hills are ongoing with weighting physical progress as 76%. Comparing with 5th trimester, 41 % physical progress is achieved in Hill ongoing ISPs.

3 ISPs in Terai (Surface) are completed with weighting physical progress as 99% whereas 4 ISPs in Terai (Surface) are ongoing with weighting physical progress as 81%. Comparing with 5th trimester, 5 % physical progress is achieved in Terai (Surface) ongoing ISPs.

2 ISPs in Terai (GW) are completed with weighting physical progress 78% whereas 2 ISPs in Terai (GW) are ongoing with weighting physical progress as 56%. Comparing with 5th trimester, 86 % physical progress is achieved in Terai (GW) ongoing ISPs.

End of June 2018:

3 ISPs in mountains are completed with weighting physical progress as 98%.

27 ISPs in Hills are completed with weighting physical progress as 94% whereas 1 ISP in Hills is ongoing with weighting physical progress as 74%. .

6 ISPs in Terai (Surface) are completed with weighting physical progress as 99% whereas 1 ISP in Terai (Surface) is ongoing with weighting physical progress as 81%.

3 ISPs in Terai (GW) are completed with weighting physical progress 78% whereas 1 ISPs in Terai (GW) is ongoing with weighting physical progress as 65%.

Table 1 Construction Progress

| | No of ISPs at Each Level of Completion | | | | |
|---------------------------|--|------|-----------|------|----------|
| | Initial Stage | <50% | 50% - 80% | >80% | Complete |
| Mountains | | | | | |
| 5 th Trimester | 0 | 0 | 0 | 0 | 3 |
| 6 th Trimester | 0 | 0 | 0 | 0 | 3 |
| 30 Jun 18 (projection) | 0 | 0 | 0 | 0 | 3 |
| Hills | | | | | |
| 5 th Trimester | 0 | 2 | 1 | 4 | 21 |
| 6 th Trimester | 0 | 1 | 1 | 5 | 21 |
| 30 Jun 18 (projection) | 0 | 0 | 1 | 0 | 27 |
| Terai (Surface) | | | | | |
| 5 th Trimester | 0 | 0 | 3 | 1 | 3 |
| 6 th Trimester | 0 | 0 | 3 | 1 | 3 |
| 30 Jun 18 (projection) | 0 | 0 | 1 | 0 | 6 |

| | No of ISPs at Each Level of Completion | | | | |
|---------------------------|--|------|-----------|------|----------|
| | Initial Stage | <50% | 50% - 80% | >80% | Complete |
| Terai (GW) | | | | | |
| 5 th Trimester | 0 | 1 | 1 | 0 | 2 |
| 6 th Trimester | 0 | 1 | 1 | 0 | 2 |
| 30 Jun 18 (projection) | 0 | 0 | 0 | 1 | 3 |
| Total | | | | | |
| 5 th Trimester | 0 | 3 | 5 | 5 | 29 |
| 6 th Trimester | 0 | 2 | 5 | 6 | 29 |
| 30 Jun 18 (projection) | 0 | 0 | 2 | 1 | 39 |

In 5th trimester 29 ISPs were completed and 13 ISPs were ongoing, whereas this 6th trimester has 29 ISPs completed and 13 ISPs are ongoing. Remaining 13 ISPs ongoing are to be completed during FY 2074/75. 2 ISPs is stepped up completion to level 50 to 80% and above 80% they are Gyandi and Rati ISP in Parbat district in Hills respectively during this trimester. Of 6 ISPs, old contracts ongoing, 5 ISPs (Pokharatar, Bakrangbesi, Dhiprangbesi, Tallodabake and Itiya Kulo) have more than 80% completion level same as end of 5th trimester expected to be completed these ISPs this trimester. Whereas 1 ISP (Jhimjhime, Rupandehi) is under time over run contract has only 65% progress up to the end of 6th trimester with very nominal 10 % progress achieved. 1 ISP (Petbaniya DTW-new) in Terai (GW) and 1 ISP (Rumta ambot) in Hill are at completion level below 50%.

End of 30 June 18 (projection), 2 ISPs (Rumta Ambot and Jhimjhime) are projected to completion level 50 to 80% and 1 ISP (Petbaniya DTW-new) to completion level above 80 % as ongoing not expected to be completed. 10 ISPs are projected expected to be completed end of June 18 and with 29 ISPs completed already comes completed final figure as 39 ISPs.

Table 2 Distribution of Completed Subprojects

| | End of 5 th Trimester | | End of 6 th Trimester | | End of June 2018 | |
|------------------------------|----------------------------------|-------------|----------------------------------|-------------|------------------|--------------|
| | No of SPs | CCA (ha) | No of SPs | CCA (ha) | No of SPs | CCA (ha) |
| Ecology | | | | | | |
| Mountain | 3 | 117 | 3 | 117 | 3 | 117 |
| Hill | 21 | 1235 | 21 | 1235 | 27 | 1700 |
| Terai (Surface) | 3 | 1255 | 3 | 1255 | 6 | 4075 |
| Terai (G/W) | 2 | 3460 | 2 | 3460 | 3 | 4540 |
| Totals | 29 | 6067 | 29 | 6067 | 39 | 10432 |
| Approved Estimate (NRs '000) | 827932 | | 827932 | | 1164448 | |
| Completion Cost (NRs '000) | 623818 | | 623818 | | 843082 | |

Completed 29 ISPs end of this trimester are serving irrigation on command area of 6067 ha. 39 ISPs end of June 2018 are serving irrigation on command area of 10432 ha.

1.2 Results from Subprojects Subject to Monthly Tracking

2 ISPs viz. Bhedabari in Nawalparasi district and TalloDabake in Kaski district have been chosen for monthly tracking for respective IDD to monitor the contractor's work on the basis of monthly progress status as per contract agreement.

Target curve has been set using the data from time line work plan BOQ of the contractor from agreement date to successive end of each month where the realistic work plan has been proposed up to the end of contract period. Each month work done by contractor with the amount paid against the work, has been

entered in the chart so as to arrive at monthly cumulative physical and financial progress to compare with cumulative targeted work.

Bhedabari ISP: S- Curve drawn reveals the work progress as of Falgun 2074 as 60% against the target 94.58% with corresponding time elapsed 84%. With remaining 16% (3 months) time to complete 40% work is needed serious monitoring with revised work plan if necessary by IDD for timely completion. However this is projected to be completed end of June 2018. Financial progress is seen 55.55% as of Falgun 2074 and financial progress has been made this trimester only 33% inclusive mobilization amount. Refer annex- A. (Data source IDD Nawalparasi)

TalloDabake ISP: S-Curve reveals that an excellent physical progress has been achieved as 100% against targeted set as 36% by an end of Bhadra 2074. Time elapsed is 157 days only out of 365 Days That is 200 days before contract completion date the contractor has been able to complete the work. Some correction work is going on by contractor. Contractor has been paid achieving financial progress as 99.59% at the end of Bhadra 2074. Refer annex- A. (Data source IDD Kaski)

1.3 Subprojects Completed During Trimester

No any sub project is completed during the trimester.

1.4 Subprojects Expected to be Completed by the End of the Project

1.4.1 Surface Water ISPs

9 ISPs are expected to be completed by the end of the project. Giving completion level at end of 6th trimester, 5 ISPs such as Pokharatar, Bakrangbesi, Dhiprangbesi, Tallodabake and Itiya Kulo are attending completion level above 80% & 4 ISPs as Gyandi and Rati Khola in Hills together Bhedabari and Bhorlebas in Terai (Surface) are attending 50 to 80% completion level.

1.4.2 Groundwater ISPs

1 ISP is expected to be completed by the end of the project as BLGWP DTW Rehab- II from Terai (GW) attending 50 to 80% completion level end of 6th trimester.

1.5 Subprojects Not Expected to be Completed by the End of the Project

1.5.1 Surface Water ISPs

2 ISPs not expected to be completed by the end of the project are Rumta Ambot (completion level below 50%) in Hill & Jhimjhime (completion level 50 to 80%) in Terai (Surface), these completion level are referred at the end of 6th trimester. Monitoring with respect to work plan by IDD is lacking in these ISPs. Contractors of these ISPs are not seen serious towards timely completion such as in Jhimjhime 2nd time contract completion period has been extended and third time on way for extension but WUA payable as well as contribution contracts in Rumtaambot ISP, WUA is seen not serious towards completion of these contracts and work progress is lacking.

1.5.2 Groundwater ISPs

1 ISP, Petbaniya DTW-new (Completion level below 50%) is expected not to be completed by the end of the project. Civil and electromechanical tender process and agreement have been carried out by GWIDD very late i.e. 1 year after approval of estimate. So time given end of June 2018 will not be sufficient to respective contractor to execute work.

1.6 Subprojects Encountering Cost Overruns

No any ISPs are encountering Cost Overruns.

1.7 Subprojects with Modified Command Areas

Table 3 Variations in Command Area

| ISP Name | District | Command Area Served by IWRMP Works (ha) | | |
|------------|------------|---|---------------|----------|
| | | DFSR | Final Outcome | Variance |
| Valvad DTW | Kapilvastu | 460 | 122 | 338 |
| Total | | 460 | 122 | 338 |

Valvad DTW, Kapilvastu district initially proposed in estimate for 18 DTWs to rehab covering 460 ha. Later rehabilitation has been undertaken for 8 DTWs covering 122 ha because of budget constrained leaving 338 ha command area untouched, when approved estimate was prepared at DoI.

1.8 Operation and Maintenance

There are 42 ISPs under AF. So far 29 ISPs are completed and 13 ISPs are ongoing. Preparation of ISF collection plans generally are targeted to ISPs either completed or above 80% physical progress achieved. During meeting with WUA beneficiaries, budget planning required for infrastructures constructed/rehabilitated for operation and maintenance in future and WUAs' institutional set up for system sustainability on WUAs own resources are focussed and facilitated during ISF preparation plan. ISF collection plan of following ISPs as of March 2018 have been completed for implementation with WUA/beneficiaries' active participation. But none of them yet implemented by WUA/beneficiaries to be followed up by IDs/IDSDs.

Sub projects of which ISF collection plan have been prepared so far.

- | | |
|----------------------------------|--------------------------------|
| 1. Syang (Re-appraised), Mustang | 2. Sibdichiluwa, Parbat |
| 3. JhonPutak, Mustang, Mustang | 4. 2023 Sale Kulo, Myagdi |
| 5. Tilche, Manang | 6. Itiyakhola, Palpa |
| 7. Bangrebesi, Lamjung | 8. Sadewa, Palpa |
| 9. Kisedi, Lamjung | 10. Serakhet, Palpa |
| 11. BilmadeMulpani, Tanahu | 12. GairapanariBinapate, Palpa |
| 13. Bhanubaraha, Tanahu | 14. JherdiKhola, Gulmi |
| 15. Kotrekafaltar, Kaski | 16. Tokare, Nawalparasi |
| 17. TalloDabake, Kaski | 18. Valwad DTW, Kapilvastu |
| 19. Aguwakhola, Parbat | 20. Madawan Sikari, Kapilvastu |
| 21. Bharai Khola, Kapilvastu | 22. Jhimjhime, Rupandehi |
| 23. Itiya Kulo, Rupandehi | 24. Pokharatar, Gorkha |

25. Bangrebesi, Gorkha

26. Waorgati, Gulmi

27. Rumtaambot, Gulmi

28. Damkaphant/Sota, Gulmi

29. Kamtitar. Syangja

2 FINANCIAL PROGRESS

Total cost in mountain of SPs in level of completion is NRs 32.9 m with CA as 117 ha (refer Table 2) of which per ha cost is NRs 0.281 m, in same way in hill it is NRs 316.2 m with CA as 1,235 ha of which per ha cost is NRs 0.256 m, in Terai (Surface) it is NRs 171 m with CA as 1,255 ha of which per ha cost is NRs 0.136 m and in Terai (GW) it is NRs 103.7 m with CA as 3,122 ha of which per ha cost is NRs 0.033 m.

So when it is compared with Terai (surface) per unit cost the train of cost investment on subprojects, in different ecological belt; cost invested in Mountain is 106% above, cost invested in Hills is 88% above whereas cost invested in Terai (GW)-Rehab is 76% below considering per ha cost of the subproject.

WUA contribution in GW ISPs implemented by BLGWP Rupandehi is in cash form that contributes in contract procurement with DOI investment in DTW rehabilitation/DTW new construction like as BLGWP DTW Rehab- I and BLGWP DTW Rehab- II as per Irrigation Policy. There has been kind and labour contribution in GW sub projects like as Valwad DTW Rehab and Petbaniya DTW New implemented by GWIDD, Butawal Rupandehi as per Irrigation Policy.

Total ongoing ISPs are 13 nos. with expenditure increment by 27% from end of 5th trimester to an end of 6th trimester.

10 ISPs are projected expected to be completed and 3 ISPs are expected not to be completed by the end of June 2018 as shown in table 4. Looking at expenditure (projection) scenario to complete 10 ISPs expenditure increment from end of 6th trimester to an end of June 2018 would be 35%. It looks challenging to complete referring past trimester financial progress rate as 27%. But discussing with respective IDD, it has been made projection considering physical works have been completed remaining some correction in work to make final by contractor after that payment progress would be achieved.

Considering completed subprojects there has not been any sub projects stepped up from ongoing to complete, 29 ISPs same as of 5th trimester so far financial progress rate in Mountain, Hill and Terai (Surface) are almost meeting physical development work with the target as in approved estimate. Financial progress calculated is with respect to approved estimate. Contingencies provision cost such as physical contingency and price adjustment contingency which bears 10% on each are not being used in most of subprojects particularly in Terai (GW) substantial amount is retained in estimate.

Table 4 Financial Expenditure on Subprojects

| | | End of 5 th Trimester | | | | End of 6 th Trimester | | | | End of June 2018 (Projection) | | | |
|-----------------------|----|----------------------------------|---------------------|-------|-------|----------------------------------|---------------------|-------|-------|-------------------------------|---------------------|-------|-------|
| | | No | Expenditure (NRs m) | | | No | Expenditure (NRs m) | | | No | Expenditure (NRs m) | | |
| | | | DoI | WUA* | Total | | DoI | WUA* | Total | | DoI | WUA* | Total |
| Completed Subprojects | | | | | | | | | | | | | |
| Mountain | 3 | 29.5 | 3.3 | 32.9 | 3 | 29.5 | 3.3 | 32.9 | 3 | 29.5 | 3.3 | 32.9 | |
| Hill | 21 | 291.4 | 24.8 | 316.2 | 21 | 291.4 | 24.8 | 316.2 | 27 | 369.9 | 31.9 | 401.8 | |
| Terai (Surface) | 3 | 157.4 | 13.6 | 171.0 | 3 | 157.4 | 13.6 | 171.0 | 6 | 255.6 | 22.9 | 278.5 | |
| Terai (GW) | 2 | 93.4 | 10.3 | 103.7 | 2 | 93.4 | 10.3 | 103.7 | 3 | 116.3 | 13.6 | 129.9 | |
| Total | 29 | 571.8 | 52.0 | 623.8 | 29 | 571.8 | 52.0 | 623.8 | 39 | 771.4 | 71.7 | 843.1 | |
| WUA Contrib (%) | | | | 8.34% | | | | 8.34% | | | | 8.50% | |
| Ongoing Subprojects | | | | | | | | | | | | | |
| Mountain | 0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Hill | 7 | 59.4 | 3.9 | 63.4 | 7 | 77.8 | 5.5 | 83.3 | 1 | 17.7 | 1.0 | 18.6 | |
| Terai (Surface) | 4 | 87.3 | 9.7 | 97.0 | 4 | 98.5 | 9.7 | 108.2 | 1 | 22.6 | 2.1 | 24.7 | |
| Terai (GW) | 2 | 14.5 | 0.0 | 14.5 | 2 | 28.6 | 2.9 | 31.5 | 1 | 20.0 | 2.8 | 22.8 | |
| Total | 13 | 161.3 | 13.6 | 174.9 | 13 | 204.9 | 18.1 | 223.0 | 3 | 60.3 | 5.9 | 66.1 | |
| Overall Total | 42 | 733.0 | 65.7 | 798.7 | 42 | 776.6 | 70.1 | 846.8 | 42 | 831.7 | 77.5 | 909.2 | |

* WUA refers to WUA Contribution

Table 5 Financial Progress of Subprojects

| | Approved Estimate (NRs m) | End of 6 th Trimester | | | End of June 2018 (Projection) | | | | | | |
|-----------------------|---------------------------|----------------------------------|------|--------------|-------------------------------|---------------------------|-------|--------------|-------|----------------|----------------|
| | | Expenditure (NRs million) | | Progress (%) | | Expenditure (NRs million) | | Progress (%) | | | |
| | | DoI | WUA* | Total | Excluding WUA* | Including WUA* | DoI | WUA* | Total | Excluding WUA* | Including WUA* |
| Completed Subprojects | | | | | | | | | | | |
| Mountain | 43.8 | 29.5 | 3.3 | 32.9 | 67 | 75 | 29.5 | 3.3 | 32.9 | 67 | 75 |
| Hill | 516.1 | 291.4 | 24.8 | 316.2 | 73 | 79 | 369.9 | 31.9 | 401.8 | 72 | 78 |
| Terai (Surface) | 378.9 | 157.4 | 13.6 | 171.0 | 76 | 82 | 255.6 | 22.9 | 278.5 | 67 | 73 |
| Terai (GW) | 225.6 | 93.4 | 10.3 | 103.7 | 53 | 59 | 116.3 | 13.6 | 129.9 | 52 | 58 |
| Total | 1164.4 | 571.8 | 52.0 | 623.8 | 69 | 75 | 771.4 | 71.7 | 843.1 | 66 | 72 |
| Ongoing Subprojects | | | | | | | | | | | |
| Mountain | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0 |
| Hill | 32.0 | 77.8 | 5.5 | 83.2 | 52 | 56 | 17.7 | 1.0 | 18.6 | 55 | 58 |
| Terai (Surface) | 54.8 | 98.5 | 9.7 | 108.2 | 44 | 48 | 22.6 | 2.1 | 24.7 | 41 | 45 |
| Terai (GW) | 35.8 | 28.6 | 2.9 | 31.5 | 34 | 37 | 20.0 | 2.8 | 22.8 | 56 | 64 |
| Total | 122.6 | 204.9 | 18.1 | 223.0 | 45 | 49 | 60.3 | 5.9 | 66.1 | 49 | 54 |
| Overall Total | 1287.1 | 776.6 | 70.1 | 846.8 | 60 | 66 | 831.7 | 77.5 | 909.2 | 65 | 71 |

* WUA refers to WUA Contribution

3 TA TEAM ENGINEERING ACTIVITIES

3.1 Project Coordination

At the end of each month TA team, Pokhara and Director, WRID held meeting for progress review, discussion on status of individually subprojects, problem and issues on contract (delaying the work progress) and WUA contribution part. Generally low progress achieved in activities such as WUA contribution, SEMP work (remedial measures on negative impact during construction of subprojects) which are not often followed as per IWRMP guide line is held discussion and implementing units are made alert/aware of them to implement in time as set in annual work program. Besides TA team participated in Regional Review Work Shop meeting organised by OPD/WRID with all IDD/IDSDs where updating the final progress data on physical and financial status of all ISPs is done.

Table 6 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned Stakeholders | Plan | 4 | 1 | 1 | 1 | | 3 | 7 |
| | | Done | 4 | 1 | 1 | 1 | 1 | 4 | 8 |

3.2 Subproject Preparation

There are none ISPs for sub project preparation at this trimester.

3.3 Subproject Implementation

Subproject implementation includes site visits in a team with IDD/IDSD staff with an aim to observe on completed and ongoing construction of canal and structures regarding quality of work and performance of the work and training on quality control to WUA/farmers who are supervising the construction work by a supervision committee. At this trimester 10 ISPs visited against target 9 for technical advice to IDD/IDSD and WUA. During meeting with WUA/beneficiaries valuable data for preparation of completion reports (PCR) would be collected as per check list. As per action plan, sample completion reports for 2 ISPs viz. Aguwa Khola, Parbat and Jherdi Khola, Gulmi have been completed during 4th and 5th trimester already. Besides, so far 10 ISPs PCR have been completed on basis of discussion in WUA/beneficiaries' meeting, walk through in ISPs and financial and physical progress data obtained from IDD/IDSD/GWIDD. They are as follows.

- | | |
|-------------------------------|------------------------------|
| 1. Aguwa Khola, Parbat | 2. Bharai Khola, Kapilvastu |
| 3. Madawan Sikari, Kapilvastu | 4. Damaidhunga, Arghakhanchi |
| 5. Kopchedamare, Arghakhanchi | 6. Jherdi Khola, Gulmi |
| 7. Sardewa, Palpa | 8. Serakhet, Palpa |
| 9. Gairapanari/Binpate, Palpa | 10. Itiya Khola, Palpa |

Table 7 Action Plan Review for Subproject Implementation

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Visit subprojects with IDD/IDSD/GBO staff and discuss any problems and solutions with farmer | Plan | 8 | 3 | 3 | 3 | | 9 | 17 |
| | | Done | 10 | 4 | 3 | 3 | | 10 | 20 |
| 4.2 | Assist in training of WUAs and beneficiaries in construction quality control | Plan | | | | | | | |
| | | Done | | | | | | | |
| 4.3 | Review and analyse monthly physical/financial progress tracking for 6 ISPs | Plan | 8 | 2 | 2 | 2 | | 6 | 14 |
| | | Done | 8 | 2 | 2 | 2 | | 6 | 14 |

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.4 | Review and analyse trimestral physical/financial progress of all ISPs | Plan | 1 | 1 | | | | 1 | 2 |
| | | Done | 1 | 1 | | | | 1 | 2 |
| 4.5 | Prepare sample completion reports for 6 sample ISPs | Plan | 1 | | | | | | 1 |
| | | Done | 1 | | 6 | 2 | | 8 | 9 |

3.4 Operation and Maintenance

This trimester, 10 ISPs have been covered assisting field offices and WUAs in assessing O&M costs and planning ISF collection. WUA ISF cost is derived in field in close consultation with WUA/farmers as agreed cost on different activities required in operation and maintenance of canal and structures and support of WUAs' institution. WUAs after discussion it from general assembly will approve for its implementation on routine follow up by IDD/IDSD/GWIDD.

Table 8 Action Plan Review for Operation and Maintenance

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.2 | Assist field offices and WUAs in assessing O&M costs and planning ISF collection | Plan | 8 | 3 | 3 | 3 | | 9 | 17 |
| | | Done | 9 | 4 | 3 | 3 | | 10 | 19 |
| 5.4 | Review and analyse data discharge results for 6 sample ISPs | Plan | | | | | | | |
| | | Done | | | | | | | |

2 ISPs viz. TalloDabake in Kaski district and Bhedabari in Nawalparasi district have been chosen for fixing water level measuring gauge at main canal. It has been discussed with engineers of both ISPs for water measuring point at mid of RCC lined main canal with sub critical flow of uniform canal cross-section and gradient for an about 20 m reach. Later canal section will be calibrated at this point using current meter so as to obtain easy rating curve on stage with its corresponding discharge. This will be handed over for regular discharge measurement's record keeping arrangement to WUA. It will help in water management aspect in the subproject for assessing required quantity of water in crop plan. Ready-made measuring gauge sheet is not available in the market so instead will have to be procured from a good painter on excellent quality of paint. Despite advising, no any gauges have been installed yet.

4 KEY ISSUES

13 ISPs are ongoing for FY 2074/75 to complete necessarily. But 10 ISPs are projected expected to be completed and 3 ISPs expected not to be completed by the end of June 2018. All ISPs need have close monitor as per revised work plan if necessary by subproject implementing units over the contract work and SEMP work. Only 3 months working season are left for the contractors.

Pokharatar ISP of Gorkha District as affected by earthquake needs some protection measures. It has been observed during field visit last February, main canal at Ch 2+500 have been damaged about 30 to 40m length. It has been delayed to repair this section by IDD/WUA despite budget provision with IDD. IDD Gorkha with WUA will have to conduct survey inclusive critical zone, which endanger the Canal and structures for protection measures which IDD is planning ahead for repair work to complete.

Rati Khola ISP, Parbat construction ongoing has been observed on 13 Nov 17 by MIT and TA team found high flood level likely to hit Intake and main canal so provision in estimate 3 m u/s return wall of intake needs to be extended by 17 m towards right bank of river. Work has been allotted to contractor but close monitor as per work plan of remaining work has to be done by IDD Parbat to complete by the end of June 2018.

Tallodabake ISP, Kaski has been suffered (construction defects problem by contractor) substantial water leaking from main canal bed and canal water overtopping at long reach of main canal and IDD Kaski is taking initiation to rectify the defects has to be accomplished before the end of June 2018.

Most of steel gates fabricated on main canal (BiladheMulpani ISP, Bhanubaraha ISP, Sardewa ISP, GairapanariBinpate ISP) are not operating at all resulting annoyance to farmers during operation of canal are needed to pay attention for repair by concerned IDDS/IDSDs before the end of June 2018.

3 ISPs viz. Rumtaambot, Gulmi, Jhimjhime, Rupandehi and Petbaniya DTW- New, Nawalpaasi have been projected expected not be completed by the end of June 2018. Contract agreement of Rumtaambot is made on Asar 2074 time elapse of 8 months, overall progress is 34%. Remaining 3 months to progress 66% is very much challenging, however work is continue with low strength of labour, equipment and construction materials. Contract agreement of Jhimjhime of 2 Packages was made on Badra 2071 after elapse of 3 and ½ years, overall progress is 55% only. Most part of work remaining is in weir construction across the River, however work is continuing but there are short of labour, equipment and construction material. Contract agreement on civil and electromechanical of Petbaniya DTW- New of 5 Packages (out of 6 Packages) is made on Falgun 2074, despite approval of estimate on Magh 2073 time elapse of 1 year. 1 Package is still on tender process. So far overall progress is 33% by constructing of 4 DTWs completed, remaining 3 months to progress 63% is challenging.

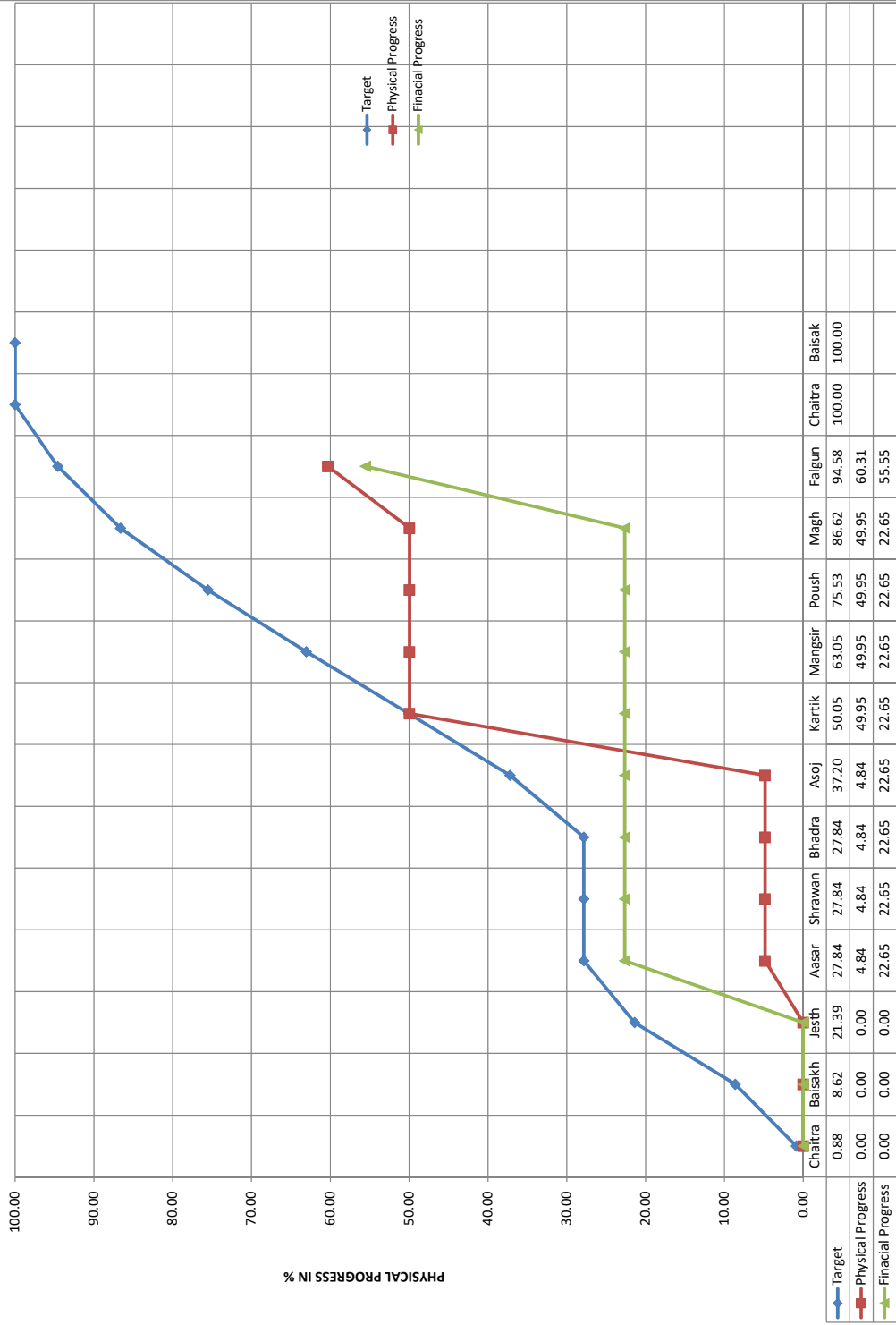
ANNEX A
RESULTS OF MONTHLY MONITORING

Work Progress in 'S' Curve

Progress Up to: Falgun 2074

| | |
|---------------------------------|---|
| Name of Project : Bhedabari ISP | |
| Contract Package No.: | IWRMP-AF/W/Nawalparasi/073-74/Bhedabari ISP/106/1 |
| Contract Title: | Construction of headwork canal and structures |
| Date of Agreement: | 09-Apr-17 |
| Notice of commencement: | 09-Apr-17 |
| Commencement Date: | 09-Apr-17 |
| Due date of completion: | 09-Mar-18 |
| Construction Period: | 12 Months (365 days) |
| Contractor: | Devchuli Nirman Sewa, Bulintar- 6, Nawalparasi |
| Contract Amount with VAT: | NRs. 11,961,622.91 |
| Completion cost with VAT: | |
| Total Payment Made to Date: | 6,644,253.00 |
| Financial Progress (%): | 55.55 |
| Date of reporting | 15-Feb-18 |
| Time Elapsed (Days): | 306 |
| Physical Progress (%): | 60.31 |
| Physical Target (%): | 94.58 |
| Main Structures proposed | RCC core wall, canal lining and structures etc |
| Major Problems/Issues | Physical progress is contributed on Falgun & as of Falgun is 60.31 % against target 94.58 %. Financial progress 55.55 % inclusive mobilization amount (no payment made on Falgun). With time elapsed 306 days progress is 60.31%, remaining 59 days to progress is 40%. Careful monitoring to complete by end of June 2018 is needed. Performance of contract as per agreement is very low. |
| Action Taken/Proposed | Intake, core wall across the river, two VRB structures and RCC lining work 300 m have been done so far. |

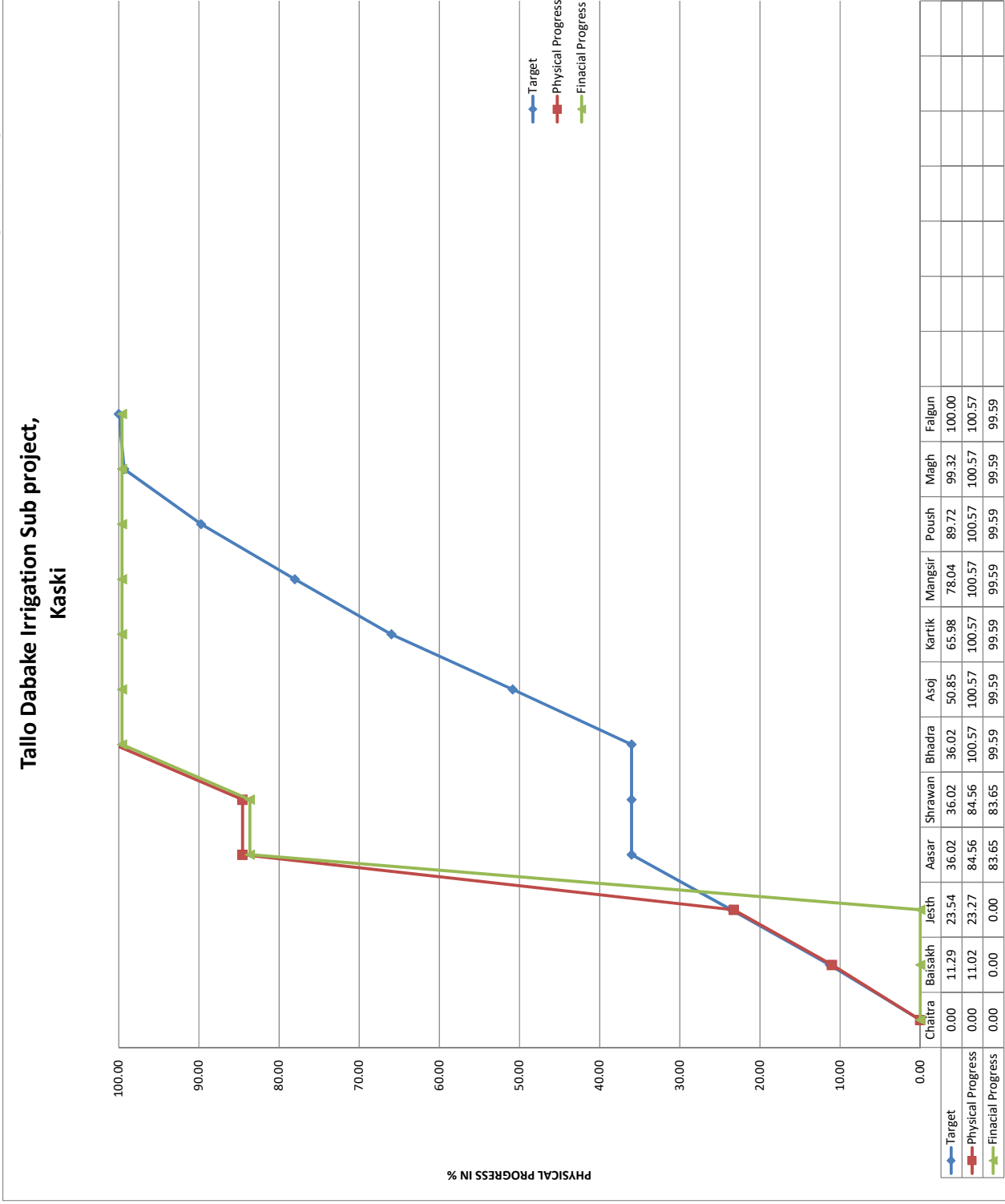
Bhedabari Irrigation Sub project, Gairidakot-3



Work Progress in 'S' Curve

Progress Up to Falgun 2074

| | | |
|------------------------------------|---|------------------------------|
| Name of Project : Tallo Dabake ISP | | IWRMPAF/W/Kaski/073-74/Tallo |
| Contract Package No.: | Dabake ISP/102/1 | |
| Contract Title: | Construction of intake H/W, canal and structures | |
| Date of Agreement: | 24-Mar-17 | |
| Notice of Commencement: | 24-Mar-17 | |
| Commencement Date: | 24-Mar-17 | |
| Due date of completion: | 23-Mar-18 | |
| Construction Period: | 12 Months (365 days) | |
| Contractor: | Creative Engineering & Construction Company Pvt. Ltd. | |
| Contract Amount Original: | NRs.6,918,134.01 | |
| Completion Cost with VAT: | | |
| Total Payment Made to Date: | 6,889,975.94 | |
| Financial Progress (%): | 99.59 | |
| Date of reporting | 15-Feb-18 | |
| Time Elapsed (Days): | 321 | |
| Physical Progress (%): | 100.57 | |
| Physical Target (%): | 36.02 | |
| Main Structures | Side Intake, RCC core wall, Canal lining, Road X-ing etc | |
| Major Problems/Issues | 1. Physical progres is 100.57 % against target 36.02 % till end Bhadra 74 and remains constant up to Falgun 74 as depicted in S Curve very early progress level has been achieved 2. Financial progress as of Falgun is 99.59 %. | |
| Action Taken/Proposed | Construction work in head work, canal and structures. | |



Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

MID WESTERN REGION
IDCE TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

20 March 2018

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1 PROJECT IMPLEMENTATION

1.1 Overall Physical Progress

At the end of this sixth trimester three additional ISPs are reported completed. 22 ISPs in (hills and Terai) in total till sixth trimester period have been completed. Overall physical progress includes civil works performed by contractors and users. WUA contribution in completed sub-projects is complete as per the contract made with WUA except in Jharkhet in Surkhet where a little work on user's contribution is not completed till date. In most of sub-projects SEMP activities are performed during the course of construction but money allocated in SEMP is not expended. The users of GamkholaKholtepani ISP are very laborious and dedicated. They are very committed farmers and famous for seeds and vegetable production. Likewise, the farmers of Sakure ISP have practiced commercial vegetable farming and seed production. The vegetable seed of Sakure area in Rukum is famous all over Nepal. One can visit the sub-project to visualize the impact of 'round the year irrigation' and prosperity brought in farmer's life. Some ISPs like Kharigair Tarachaur in Dailekh, Girikhola in Jumla and Chhipra in Rukum need review of Design estimate to match the user's demand and present situation of the sub-project. The construction work except in Girikhola is progressing satisfactorily. In Sarkegadhi ISP of Humla, transportation of construction material like, cement, reinforcement and collection of sand and boulders have progressed. The actual construction work in Himali districts have picked up in March. The physical progress of the Sub-projects is given in Table 1 below

Table 1 Construction Progress

| | No of ISPs at Each Level of Completion | | | | |
|---------------------------|--|------|-----------|------|----------|
| | Initial Stage | <50% | 50% - 80% | >80% | Complete |
| Mountains | | | | | |
| 5 th Trimester | 0 | 0 | 4 | 3 | 0 |
| 6 th Trimester | 0 | 0 | 4 | 2 | 1 |
| 30 Jun 18 (projection) | 0 | 0 | 1 | 0 | 6 |
| Hills | | | | | |
| 5 th Trimester | 0 | 0 | 4 | 3 | 11 |
| 6 th Trimester | 0 | 0 | 3 | 3 | 12 |
| 30 Jun 18 (projection) | 0 | 0 | 2 | 0 | 16 |
| Terai (Surface) | | | | | |
| 5 th Trimester | 0 | 0 | 1 | 1 | 6 |
| 6 th Trimester | 0 | 0 | 1 | 1 | 6 |
| 30 Jun 18 (projection) | 0 | 0 | 0 | 0 | 8 |
| Terai (GW) | | | | | |
| 5 th Trimester | 0 | 2 | 0 | 1 | 2 |
| 6 th Trimester | 0 | 0 | 2 | 0 | 3 |
| 30 Jun 18 (projection) | 0 | 0 | 0 | 0 | 5 |
| Total | | | | | |
| 5 th Trimester | 0 | 2 | 9 | 8 | 19 |
| 6 th Trimester | 0 | 0 | 10 | 6 | 22 |
| 30 Jun 18 (projection) | 0 | 0 | 3 | 0 | 35 |

In previous 5th trimester, there were 19 ISPs ongoing including two ISPs reappraised in Pyuthan District. Out of two reappraised; Lamasera has progressed and about to complete the progress of Pidalnepant ISP is slightly slow but progressing. There are three sub-projects completed in this 6th trimester and remaining 16 are ongoing. It is expected that all 16 ISPs in different stages of implementation i.e. construction stages will complete within this fiscal year of 2074/75. However on seeing the problem in implementation due to demand in design change and new debate of road track opening, Girikhola of

Jumla ,KharigairaTarachaur of Dailekh and Chhipra in Rukum may take more time to complete. Efforts are underway to complete the sub-projects through compromise and consensus among users of respective sub-projects.

In November/December 2016, Four ISPs in Mountain, Four in Hills and One surface and two ground water sub-projects in Terai were PICC approved for implementation. All of eleven sub-projects are now in different stages of construction. Librukholra ISP in Mugu, Kharkholra ISP of Dolpa have completed almost 60% of physical works and others have achieved progress of more than 50% physically. Two newly approved groundwater subproject Dhanauri and Taratal have drilled wells, tested discharge and remaining contractual works (such as electric line, overhead tank, distribution network, purchase of valves, pumps, voltage stabilizer, flow meter etc) are completed and construction of Pump house, laying of distribution pipes and Overhead tanks are underway.

Table 2 Distribution of Completed Subprojects

| | End of 5 th Trimester | | End of 6 th Trimester | | End of June 2018 | |
|------------------------------|----------------------------------|--------------|----------------------------------|--------------|------------------|--------------|
| | No of SPs | CCA (ha) | No of SPs | CCA (ha) | No of SPs | CCA (ha) |
| Ecology | | | | | | |
| Mountain | 0 | 0 | 1 | 28 | 6 | 313 |
| Hill | 11 | 465 | 12 | 485 | 16 | 780 |
| Terai (Surface) | 6 | 1,993 | 6 | 1,993 | 8 | 2,368 |
| Terai (G/W) | 2 | 880 | 3 | 1,040 | 5 | 1,360 |
| Totals | 19 | 3,338 | 22 | 3,546 | 35 | 4,821 |
| Approved Estimate (NRs '000) | 564,623 | | 635,288 | | 1,213,216 | |
| Completion Cost (NRs '000) | 435,963 | | 486,621 | | 848,662 | |

The cost of recently completed sub-projects (Sanichaur, Gangrupinathang and Bela tubewell) is yet to be entered and will be done as and when we receive it.

1.2 Results from Subprojects Subject to Monthly Tracking

SanoshreeTaratal(New) Sub-project Bardiya and KharigairaTarachaurISP of Dailekh are chosen for monthly progress tracking. Four wells are bored; pipe laying for distribution work of one of the four wells is almost complete. Construction of overhead tank and pump house are underway. Tube-wells are tested and test process is completed in SanoshreeTaratal new ISP. In KharigairaTarachaur ISP, some portion of canal lining and road crossing works are completed. The canal lining works are in full speed. We did not find work and payment schedule prepared by the implementing agency in any sub-project and consider the work schedule prepared by contractor as planned to monitor the physical/financial progress and Measurement book entry as actual physical/financial progress. The progress tracking graphs will be drawn as and when 2 or 3 entries in the MB are made. We are having discussion on monthly tracking with IDD/IDSD to obtain valuable information (if any) and compare with trimester tracking.

1.3 Subprojects Completed During Trimester

Three additional sub-projects are reported completed during this 6th trimester reporting period oneGangruPinathang in Humla,Sanichaur ISP in Jajarkotand one Bela GWISP in Dang District.

1.4 Subprojects Expected to be Completed by the End of the Project

1.4.1 Surface Water ISPs

All Surface Water ISPs are expected to complete by the end time of the project. However,Girikholra ISP of Jumla, KharigairaTarachaur ISP of Dailekh and Chhipra ISP of Rukum have some thought to complete by the end of that time because of demand of design change in them.

1.4.2 Groundwater ISPs

All Groundwater ISPs are expected to complete.

1.5 Subprojects Not Expected to be Completed by the End of the Project

1.5.1 Surface Water ISPs

Users of Girikhola ISP in Jumla want design change that is continuous RCC lined canal instead of pipe canal which is not yet finalised. This may take more time and the sub-project may not be completed. Similarly, a debate among users and landlords has arisen in Kharigairatarachaur ISP of Dailekh district at head reach where a pipe siphon is proposed. Other works are almost complete but about 300 m canal and pipe siphon is yet to be built. In Chhipra ISP of Rukum (west), construction of road track at canal intake has disturbed right hand side canal and debate among canal users and road track opener has disturbed the work. Efforts are underway to resolve all these problems.

1.5.2 Groundwater ISPs

All Ground water ISPs are expected to complete by June 30 2018.

1.6 Subprojects Encountering Cost Overruns

No cost overrun is expected in any sub-project but use of physical contingency of Laudisim and Girikhola ISPs of Jumla:Chhipra ISP of Rukum is expected.

1.7 Subprojects with Modified Command Areas

Radhapur Sitapur GWISP of Banke has modified command area among completed sub-projects. There were 19 tube-wells planned to rehabilitate but only 16 could be rehabilitated. This rendered change in command area by 120 ha ie original was 760 ha and now it has become 640 ha. There is likelihood of change in command area in Dhanauri GWISP in Dang. The tube well discharge as observed (23+18+14+10=65) is far less than planned but the detail can be assessed after detail analysis of records of well discharge.

Table 3 Variations in Command Area

| ISP Name | District | Command Area Served by IWRMP Works (ha) | | |
|------------------|----------|---|---------------|----------|
| | | DFSR | Final Outcome | Variance |
| Radhapur Sitapur | Banke | 760 ha | 640 ha | 120 ha |
| Dhanauri | Dang | 160 ha | 65 ha | 95 ha |
| Total | | 920 ha | 705 ha | 215 ha |

1.8 Operation and Maintenance

We are continuously preparing ISF collection plan in completed as well as ongoing sub-projects. Till the end of 6th trimester period some 18 ISF collection plans have been prepared.

2 FINANCIAL PROGRESS

Till date, User's contribution in ground water sub-projects is not entered. It is expected all entries will be made towards the completion of sub-projects. Generally, 15% contribution on ground water sub-projects and 10% contribution on surface water sub-projects are expected in IWRMP project.

The financial projection made in following table is based on estimate to complete the sub-project and present rate of work accomplishment.

This is just indicative information and the pace of work accomplishment can accelerate or retard depending up on working environment, support of users, determination of users, client's, implementers and contractors.

Table 4 Financial Expenditure on Subprojects

| | End of 5 th Trimester | | | | End of 6 th Trimester | | | | End of June 2018 (Projection) | | | |
|-----------------------|----------------------------------|---------------------|------|-------|----------------------------------|---------------------|------|-------|-------------------------------|---------------------|------|-------|
| | No | Expenditure (NRs m) | | | No | Expenditure (NRs m) | | | No | Expenditure (NRs m) | | |
| | | DoI | WUA* | Total | | DoI | WUA* | Total | | DoI | WUA* | Total |
| Completed Subprojects | | | | | | | | | | | | |
| Mountain | | 0 | 0 | 0 | 1 | 11. | 1.0 | 12. | 1 | 12. | 1. | 13. |
| Hill | 11 | 135 | 12.6 | 147.6 | 12 | 141. | 14. | 155. | 12 | 145. | 15. | 160. |
| Terai (Surface) | 6 | 209.3 | 22.1 | 231.5 | 6 | 217. | 22. | 239. | 6 | 219. | 23. | 242. |
| Terai (GW) | 2 | 51.0 | 5.9 | 56.9 | 3 | 70. | 6. | 76. | 3 | 80. | 9. | 89. |
| Total | 19 | 395.3 | 40.7 | 436.0 | 22 | 439. | 43. | 482. | 22 | 456. | 54. | 510. |
| WUA Contrib (%) | | | | 9.3% | | | | 9% | | | | 10.6% |
| Ongoing Subprojects | | | | | | | | | | | | |
| Mountain | 7 | 77.2 | 9.1 | 86.3 | 6 | 78. | 9. | 88. | 5 | 150. | 5. | 155. |
| Hill | 7 | 78.5 | 4.3 | 82.8 | 6 | 89. | 5. | 94. | 4 | 135. | 8. | 143. |
| Terai (Surface) | 2 | 31.0 | 3.0 | 34.0 | 2 | 31. | 3. | 34. | 2 | 58. | 6. | 64. |
| Terai (GW) | 3 | 29.3 | 0.0 | 29.3 | 2 | 10. | 0 | 10. | 2 | 34. | 11. | 45. |
| Total | 19 | 216.0 | 16.4 | 232.4 | 16 | 209. | 17. | 226. | 13 | 377. | 30. | 407. |
| Overall Total | 38 | 611.3 | 57.1 | 668.4 | 38 | 648. | 60. | 708. | 38 | 833. | 85. | 917. |

* WUA refers to WUA Contribution

Table 5 Financial Progress of Subprojects

| | Approved Estimate (NRs m) | End of 6 th Trimester | | | | End of June 2018 (Projection) | | | | | |
|-----------------------|---------------------------|----------------------------------|------|--------------|----------------|-------------------------------|------|--------------|-------|----------------|----------------|
| | | Expenditure (NRs million) | | Progress (%) | | Expenditure (NRs million) | | Progress (%) | | | |
| | | Dol | WUA* | Total | Excluding WUA* | Including WUA* | Dol | WUA* | Total | Excluding WUA* | Including WUA* |
| | | | | | | | | | | | |
| Completed Subprojects | | | | | | | | | | | |
| Mountain | 18. | 11. | 1.0 | 12. | 61.12 | 66.67 | 12. | 1. | 13. | 66.67 | 72.22 |
| Hill | 211. | 141. | 14. | 155. | 66.82 | 73.46 | 145. | 15. | 160. | 68.72 | 75.83 |
| Terai (Surface) | 297. | 217. | 22. | 239. | 73.06 | 80.47 | 219. | 23. | 242. | 73.74 | 81.48 |
| Terai (GW) | 109. | 70. | 6. | 76. | 64.22 | 69.72 | 80. | 9. | 89. | 73.39 | 81.65 |
| Total | 635. | 439. | 43. | 482. | 69.13 | 75.91 | 456. | 54. | 510. | 71.81 | 80.31 |
| Ongoing Subprojects | | | | | | | | | | | |
| Mountain | 222. | 78. | 9. | 88. | 35.14 | 39.64 | 150. | 5. | 155. | 67.57 | 69.82 |
| Hill | 165. | 89. | 5. | 94. | 54.0 | 57.0 | 135. | 8. | 143. | 81.82 | 86.67 |
| Terai (Surface) | 110. | 31. | 3. | 34. | 28.18 | 31.0 | 58. | 6. | 64. | 52.73 | 58.18 |
| Terai (GW) | 81. | 10. | 0 | 10. | 12.34 | 12.34 | 34. | 11. | 45. | 41.97 | 55.56 |
| Total | 578. | 209. | 17. | 226. | 36.15 | 39.10 | 377. | 30. | 407. | 65.22 | 70.41 |
| Overall Total | 1213. | 648. | 60. | 708. | 53.42 | 58.37 | 839. | 85. | 917 | 69.17 | 75.59 |

3 TA TEAM ENGINEERING ACTIVITIES

3.1 Project Coordination

Table 6 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned Stakeholders | Plan | 5 | 1 | 1 | 1 | | 3 | 8 |
| | | Done | 5 | 1 | 1 | 1 | 1 | 4 | 9 |

3.2 Subproject Preparation

No sub-projects are prepared, no DFSRs reviewed but SEMP were reviewed and approved in Nepalgunj workshop in January 2018.

3.3 Subproject Implementation

We visited some 20 sub-projects during this trimester and also supported training being conducted by IDD or IDSDs. We prepared 18 ISF collection plans and 10 PCRs of sub-projects. PCRs contain partial information as per the formats availed. We are striving to include more information in PCRs written and prepare more.

Table 7 Action Plan Review for Subproject Implementation

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Visit subprojects with IDD/IDSD/GBO staff and discuss any problems and solutions with farmer | Plan | 8 | 3 | 3 | 3 | 3 | 12 | 20 |
| | | Done | 8 | 4 | | 8 | 4 | 16 | 24 |
| 4.2 | Assist in training of WUAs and beneficiaries in construction quality control | Plan | 3 | | | | | 3 | 3 |
| | | Done | 3 | | | | | 3 | 3 |
| 4.3 | Review and analyse monthly physical/financial progress tracking for 6 ISPs | Plan | 4 | 1 | 1 | 1 | | 3 | 7 |
| | | Done | 2 | 1 | 1 | 1 | | | 5 |
| 4.4 | Review and analyse trimestral physical/financial progress of all ISPs | Plan | | 1 | | | 1 | 2 | 2 |
| | | Done | | 1 | | | 1 | 2 | 2 |
| 4.5 | Prepare sample completion reports for 6 sample ISPs | Plan | | | | | | | |
| | | Done | 1 | | | 9 | | 10 | 10 |

.....

3.4 Operation and Maintenance

Table 8 Action Plan Review for Operation and Maintenance

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.2 | Assist field offices and WUAs in assessing O&M costs and planning ISF collection | Plan | 5 | 3 | 3 | 3 | 3 | 12 | 17 |
| | | Done | 5 | | | 7 | 6 | 13 | 18 |
| 5.4 | Review and analyse data discharge results for 6 sample ISPs | Plan | | | | | | | |
| | | Done | | | | | | | |

We advised IDD/IDSDs to install canal discharge measuring devices in predetermined points along main and branch canals but nowhere followed. Training to record discharges has to be provided to selected

users after the installation of measuring devices. However we recorded tentative discharge at the time of site visits which is given in field visit reports.

4 KEY ISSUES

Rearrangements of Government units have disturbed working spaces and mentality of employees for the time being. Though there had been telephone contacts before travel plan, responsible official were not available at the time of visits. It is expected to be normal after some time.

Demand of change of design in ongoing sub-projects has hindered work progress. The speed of rehabilitation work in GirikholaJumla; Chhiprakhola In Rukum and KharigairaTarachaur are disturbed. Efforts are underway to resolve the problems raised by users.

Data collection has become a tedious job for us. Some mechanism to obtain the data from IDD/IDSD/DAO /WUA need to be devised so that obtaining and updating of data becomes easy and less embarrassing.

Road track opening by rural municipalities above the contour canal has severely damaged the lined canals and urgently required to protect them. For example; a very good rehabilitated canals, alive line of about 300 HH, in Sakure ISP of Rukum is severely damaged by road track opening.

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

FAR WESTERN REGION
IDCE TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

20/03/2018

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1 PROJECT IMPLEMENTATION

1.1 Overall Physical Progress

There are 23 surface Irrigation SPs and two DTW SPs in this region. Out of which 12 surface irrigation SPs are completed up to 6th trimester and remaining 13 ISPs are ongoing, of which 12 ISPs included two GW SPs are expected to complete up to the end of June 2018 but one surface ISP of Bajhang IDD will not be completed.

Table 1 Construction Progress

| | No of ISPs at Each Level of Completion | | | | |
|---------------------------|--|------|-----------|------|----------|
| | Initial Stage | <50% | 50% - 80% | >80% | Complete |
| Mountains | | | | | |
| 5 th Trimester | | 1 | 4 | 2 | 2 |
| 6 th Trimester | | 1 | 1 | 5 | 2 |
| 30 Jun 18 (projection) | | 1 | | | 8 |
| Hills | | | | | |
| 5 th Trimester | | 1 | 0 | 2 | 8 |
| 6 th Trimester | | 0 | 0 | 3 | 8 |
| 30 Jun 18 (projection) | | | | | 11 |
| Terai (Surface) | | | | | |
| 5 th Trimester | | 0 | 1 | 0 | 2 |
| 6 th Trimester | | 0 | 0 | 1 | 2 |
| 30 Jun 18 (projection) | | | | | 3 |
| Terai (GW) | | | | | |
| 5 th Trimester | | 0 | 2 | 0 | 0 |
| 6 th Trimester | | 0 | 2 | 0 | 0 |
| 30 Jun 18 (projection) | | | | | 2 |
| Total | | | | | |
| 5 th Trimester | | 2 | 7 | 4 | 12 |
| 6 th Trimester | | 1 | 3 | 9 | 12 |
| 30 Jun 18 (projection) | | 1 | | | 24 |

Out of 25 subprojects, only 24 subprojects will be completed at the end of June 2018.

Table 2 Distribution of Completed Subprojects

| | End of 5 th Trimester | | End of 6 th Trimester | | End of June 2018 | |
|-----------------|----------------------------------|----------|----------------------------------|------------|------------------|--------------|
| | No of SPs | CCA (ha) | No of SPs | CCA (ha) | No of SPs | CCA (ha) |
| Ecology | | | | | | |
| Mountain | 2 | 61 | 2 | 61 | 8 | 343 |
| Hill | 8 | 305 | 8 | 305 | 11 | 680 |
| Terai (Surface) | 2 | 623 | 2 | 623 | 3 | 1,223 |
| Terai (G/W) | 0 | 0 | 0 | 0 | 2 | 265 |
| Totals | 12 | 0 | 12 | 989 | 24 | 2,511 |

| | End of 5 th Trimester | | End of 6 th Trimester | | End of June 2018 | |
|------------------------------|----------------------------------|----------|----------------------------------|----------|------------------|----------|
| | No of SPs | CCA (ha) | No of SPs | CCA (ha) | No of SPs | CCA (ha) |
| Approved Estimate (NRs '000) | | 348750 | | 348750 | | 758000 |
| Completion Cost (NRs '000) | | 187700 | | 187700 | | 607800 |

1.2 Results from Subprojects Subject to Monthly Tracking

Two Subprojects Suda DTW of Kailali and Bhaunera ISP of Bajura have been selected for monthly physical/financial progress tracking. Up to 5th trimester the work progress of suda DTW was slow but after 5th trimester the progress is satisfactory. Similarly, the work progress of Bhaunera is excellent.

1.3 Subprojects Completed During Trimester

No subprojects are completed during this reporting period.

1.4 Subprojects Expected to be Completed by the End of the Project

1.4.1 Surface Water ISPs

All ISPs will be completed except Subeda Mallo Juella of Bajhang IDD. Subeda Mallo Jyuella ISP of Bajhang IDD is expected not to complete in the project period due to technical and contractual problem. So, at present 15 ha command area is getting irrigation thought in DFSR it is 60 ha. Near landslide zone, in original scope, there is a provision of HDPE pipe Canal lining and contractor has already supplied the required quantities of HDPE pipe. The longitudinal slope of the canal is flatter. Canal is carrying heavy silt due to which WUA/farmer beneficiaries are strongly objecting for HDPE pipe laying and instead of HDPE pipe they are demanding RCC Covered Lining. Nearly 330 m RCC lining have already been constructed by IDD and some part is damaged by land slide. Side Intake is not constructed yet due to degrading nature of river at the proposed site. That's why ISP is incomplete and less command area is irrigated temporarily

1.4.2 Groundwater ISPs

All will be completed.

1.5 Subprojects Not Expected to be Completed by the End of the Project

1.5.1 Surface Water ISPs

Subeda Mallo Jyuella of Bajhang IDD is not going to be completed by the end of the project.

1.5.2 Groundwater ISPs

Both ground water subprojects will be completed.

1.6 Subprojects Encountering Cost Overruns

No, cost overrun is seen after reappraisal of kalapathreshwor ISP of Doti and Bhaunera ISP of Bajura.

1.7 Subprojects with Modified Command Areas

Subeda Mallo Jyuella ISP of Bajhang IDD is expected not to complete in the project period due to technical and contractual problem. So, at present 15 ha command area is getting irrigation thought in DFSR it is 60 ha. Near landslide zone, in original scope, there is a provision of HDPE pipe Canal lining and contractor has already supplied the required quantities of HDPE pipe. The longitudinal slope of the canal is flatter. Canal is carrying heavy silt due to which WUA/farmer beneficiaries are strongly objecting for HDPE pipe laying and instead of HDPE pipe they are demanding RCC Covered Lining. Nearly 330 m RCC lining have already

been constructed by IDD and some part is damaged by land slide. Side Intake is not constructed yet due to degrading nature of river at the proposed site. That's why ISP is incomplete and less command area is irrigated temporarily, Bhaunera ISP of Bajura after reappraisal irrigate additional 7 ha of land. In Suda DTW subproject, 4 wells are bored but well no 3 is completely failed and no water is coming out from the well. Rest three wells are not running at the full discharge rate. It is expected that the discharge is 30 lps instead of 40 lps. So, commanded area irrigated will be 90 ha only. In case of Sandepani DTW subprojects, there are six wells are bored. Design discharge of each well is 40 lps and it will command 40 ha but each well is not fully discharging at the designed rate. It is expected that 5 wells are discharging at the rate of 30 lps and one is at the rate of 25 lps. so, it is expected that only 175 ha of land is irrigated instead of 240 ha.

Table 3 Variations in Command Area

| ISP Name | District | Command Area Served by IWRMP Works (ha) | | |
|---------------------|------------|---|---------------|----------|
| | | DFSR | Final Outcome | Variance |
| Subeda mallo jyulla | Bajhang | 60 | 15 | 45 (-) |
| Bhaunera ISP | Bajura | 32 | 39 | 7 (+) |
| Suda DTW | kanchanpur | 160 | 90 | 70 (-) |
| Sandepani DTW | Kailali | 240 | 175 | 65 (-) |
| Total | | 492 | 319 | 173 |

The total command area not served by IWRMP in FWR expected to be 173 ha.

1.8 Operation and Maintenance

There are 23 surface irrigation subprojects and 2 DTW subprojects. Out of which 12 ISPs are completed and 13 ISPs are running. Preparation of ISF collection plans for O & M are targeted to ISPs either completed or 80% above physical progress achieved. 16 ISF for surface irrigation subprojects and one ISF for DTW subproject is prepared after interaction with WUA/farmer beneficiaries.

The name of subprojects for which ISF collection plan have been prepared listed below:

1. Pantpali ISP 2. Goeladi ISP. 3. Nwali ISP. 4. Limuda ISP. 5. Manekuda ISP. 6. Bhitesal ISP.
7. Dhiktadi ISP. 8. Badhuwa ISP. 9. Jogijalla ISP. 10. Dhanrashkhet ISP. 11. Bhairabnath ISP.
12. Subeda Tallo Jyulla. 13. Bhaunera ISP. 14. Kotedigad ISP. 15. Sandepani DTW subproject.
16. Ratipur ISP. 17. Bagun ISP

2 FINANCIAL PROGRESS

At the end of 6th trimester only 12 Surface irrigation sub projects have been completed and 10 surface irrigation sub projects and two ground water deep tube wells are expected to complete at the end of June 2018. and one ISP of Bajhang IDD named Subed Mallo Jyuella is not going to complete in the project period. That is, out of 25 ISPs, only 24 ISPs are expected to complete in the project period. Projection of the expenditure is totally based on the information given by respective IDD/IDSD/GWIDD except Baitadi IDD. Overall status of the expenditure including WUA contribution is 70%.

Table 4 Financial Expenditure on Subprojects

| | End of 5 th Trimester | | | | End of 6 th Trimester | | | | End of June 2018 (Projection) | | | |
|-----------------------|----------------------------------|---------------------|------|-------|----------------------------------|---------------------|------|-------|-------------------------------|---------------------|------|-------|
| | No | Expenditure (NRs m) | | | No | Expenditure (NRs m) | | | No | Expenditure (NRs m) | | |
| | | Dol | WUA* | Total | | Dol | WUA* | Total | | Dol | WUA* | Total |
| Completed Subprojects | | | | | | | | | | | | |
| Mountain | 2 | 16.8 | 1.1 | 17.9 | 2 | 16.8 | 1.1 | 17.9 | 8 | 91.8 | 7..5 | 99.3 |
| Hill | 8 | 99.7 | 6.8 | 106.5 | 8 | 99.7 | 6.8 | 106.5 | 11 | 238.0 | 18.3 | 256.3 |
| Terai (Surface) | 2 | 57.4 | 5.9 | 63.3 | 2 | 57.4 | 5.9 | 63.3 | 3 | 148.0 | 11.8 | 159.8 |
| Terai (GW) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 69.3 | 11.1 | 80.4 |
| Total | 12 | 173.9 | 13.8 | 187.7 | 12 | 173.9 | 13.8 | 187.7 | 24 | 547.1 | 48.7 | 595.8 |
| WUA Contrib (%) | | | | 7.8 % | | | | 7.8 % | | | | 8.6 % |
| Ongoing Subprojects | | | | | | | | | | | | |
| Mountain | 7 | 60.4 | 3.7 | 64.1 | 7 | 67.6 | 4.2 | 71.8 | 1 | 11.5 | 0.5 | 12 |
| Hill | 3 | 113.5 | 10.5 | 124.0 | 3 | 115.6 | 10.5 | 126.1 | | | | |
| Terai (Surface) | 1 | 80.2 | 0.8 | 83.7 | 1 | 82.9 | 0.8 | 83.7 | | | | |
| Terai (GW) | 2 | 41.2 | 0.9 | 42.1 | 2 | 57.4 | 5.3 | 62.7 | | | | |
| Total | 13 | 295.3 | 15.9 | 311.2 | 13 | 323.5 | 20.8 | 344.3 | 1 | 11.5 | 0.5 | 12 |
| Overall Total | 25 | 469.2 | 29.7 | 498.9 | 25 | 497.4 | 34.6 | 532.0 | 25 | 558.6 | 49.2 | 607.8 |

* WUA refers to WUA Contribution

Table 5 Financial Progress of Subprojects

| | Approved Estimate (NRs m) | End of 6 th Trimester | | | | End of June 2018 (Projection) | | | | | |
|-----------------------|---------------------------|----------------------------------|------|--------------|----------------|-------------------------------|-------|--------------|-------|----------------|----------------|
| | | Expenditure (NRs million) | | Progress (%) | | Expenditure (NRs million) | | Progress (%) | | | |
| | | Dol | WUA* | Total | Excluding WUA* | Including WUA* | Dol | WUA* | Total | Excluding WUA* | Including WUA* |
| Completed Subprojects | | | | | | | | | | | |
| Mountain | 24.0 | 16.8 | 1.1 | 17.9 | 70.0 | 74.5 | 91.8 | 7.5 | 99.3 | 64.5 | 70.0 |
| Hill | 122.8 | 99.7 | 6.8 | 106.5 | 81.2 | 86.7 | 238.0 | 18.3 | 256.3 | 86.0 | 92.7 |
| Terai (Surface) | 98.5 | 57.4 | 5.9 | 63.3 | 58.3 | 64.2 | 148.0 | 11.8 | 159.8 | 63.0 | 68.0 |
| Terai (GW) | 0.0 | 00.0 | 00.0 | 00.0 | 00.0 | 00.0 | 69.3 | 11.1 | 80.4 | 67.0 | 77.7 |
| Total | 245.3 | 173.9 | 13.8 | 187.7 | 50.0 | 54.0 | 547.1 | 48.7 | 595.8 | 65.3 | 70.1 |
| Ongoing Subprojects | | | | | | | | | | | |
| Mountain | 118.4 | 67.6 | 4.2 | 71.8 | 57.1 | 60.6 | 11.5 | 0.5 | 12.0 | 48.0 | 50.0 |
| Hill | 153.7 | 115.6 | 10.5 | 126.1 | 75.2 | 82.0 | | | | | |
| Terai (Surface) | 137.2 | 82.9 | 0.8 | 83.7 | 60.4 | 61.0 | | | | | |
| Terai (GW) | 103.4 | 57.4 | 5.3 | 62.7 | 40.0 | 41.0 | | | | | |
| Total | 512.7 | 323.5 | 20.8 | 344.3 | 60.0 | 69.6 | | | | | |
| Overall Total | 758.0 | 497.4 | 34.6 | 532.0 | 56.0 | 60.0 | 558.6 | 49.2 | 607.8 | 64.8 | 70.5 |

* WUA refers to WUA Contribution

* WUA refers to WUA Contribution

3 TA TEAM ENGINEERING ACTIVITIES

3.1 Project Coordination

According to 6th trimester action plan, the project coordination with regional director was done. The main agenda of the meeting was work quality, timely project completion of ISPs, Meta card surveys and data book updating of the ISPs. WUA contribution and participation.

Table 6 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned Stakeholders | Plan | 4 | 1 | 1 | 1 | | 3 | |
| | | Done | 2 | 2 | 1 | | | 3 | |

3.2 Subproject Preparation

Field visit was made for reappraisal of Kadamandu and kalapathreshwor ISPS of Doti. DFSR of Kadamandu, Kalapathreshwor ISPs of Doti and Bhaunera ISP of Bajura were prepared for RAC and submitted for reappraisal.

3.3 Subproject Implementation

During 6th trimester 14 ISPs were visited. In two ISPs there were interaction with WUA about quality control, Physical /financial progress tracking of two ISPs Bhaunera of Bajura and Suda DTW of Kailali was done.

Table 7 Action Plan Review for Subproject Implementation

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Visit subprojects with IDD/IDSD/GBO staff and discuss any problems and solutions with farmer | Plan | 6 | 3 | 3 | 3 | | 9 | |
| | | Done | 7 | 6 | 5 | 1 | 2 | 14 | |
| 4.2 | Assist in training of WUAs and beneficiaries in construction quality control | Plan | 3 | | | | | 6 | |
| | | Done | 5 | | | | 2 | 2 | |
| 4.3 | Review and analyse monthly physical/financial progress tracking for 6 ISPs | Plan | 8 | 2 | 2 | 2 | | 6 | |
| | | Done | 0 | | | 2 | | 2 | |
| 4.4 | Review and analyse trimestral physical/financial progress of all ISPs | Plan | 1 | 1 | | | | 1 | |
| | | Done | 1 | 1 | | | | 1 | |
| 4.5 | Prepare sample completion reports for 6 sample ISPs | Plan | 0 | | | | | 0 | |
| | | Done | 1 | | | | | 0 | |

PCR of Subeda Tallo Jyuella ,Goeladi...and Ratipur ISP is completed.

3.4 Operation and Maintenance

ISF collection plan of 17 ISPs for O & M have been drafted after consultation with WUA/ farmer beneficiaries. In some ISPs, WUA are collecting cash/kind for O & M but as and when required.

Table 8 Action Plan Review for Operation and Maintenance

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.2 | Assist field offices and WUAs in assessing O&M costs and planning ISF collection | Plan | 5 | 3 | 3 | 3 | | 9 | |
| | | Done | 4 | 2 | 4 | | 2 | 8 | |
| 5.4 | Review and analyse data discharge results for 6 sample ISPs | Plan | 0 | | | | | 0 | |
| | | Done | 0 | | | | | 0 | |

For discharge measurement, Ratipur ISP of Kalali and Bhitesal ISP of Dadeldhura was selected and discharge measurement point is also selected in the presence of IDD/IDSD sub engineer and WUA members but IDD kailali and IDSD Dadeldhura.

4 KEY ISSUES

Subeda Mallo Jyuella ISP of Bajhang IDD is expected not to complete in the project period due to technical and contractual problem. Near landslide zone, in original scope, there is a provision of HDPE pipe Canal lining and contractor has already supplied the required quantities of HDPE pipe. The longitudinal slope of the canal is flatter. Canal is carrying heavy silt due to which WUA/farmer beneficiaries are strongly objecting for HDPE pipe laying and instead of HDPE pipe they are demanding RCC Covered Lining. Nearly 330 m RCC lining have already been constructed by IDD and some part is damaged by land slide and no work is in progress under IWRMP after 6th trimester.. In Suda DTW, out of 4 wells: well no 3 is failed.

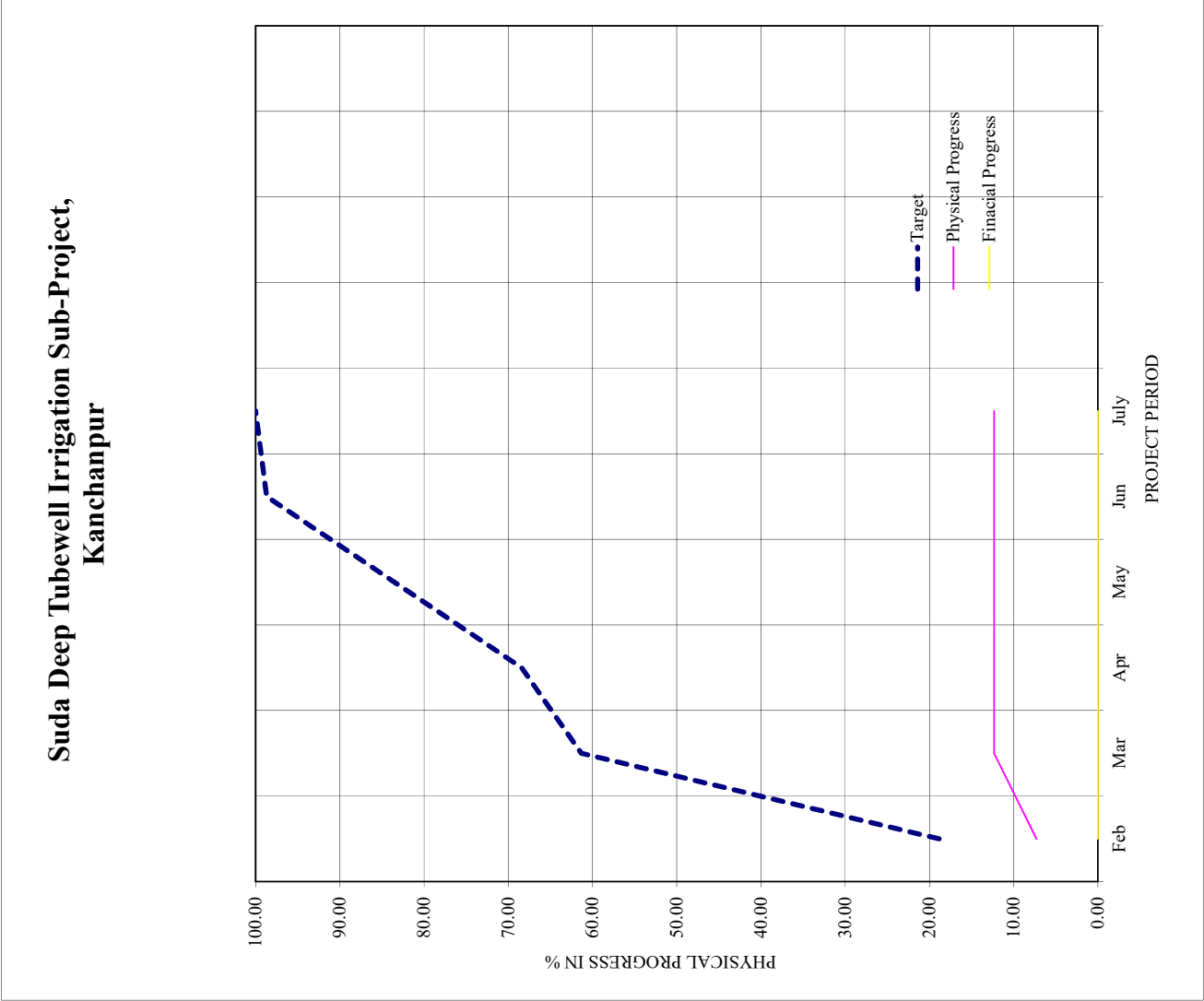
ANNEX A
RESULTS OF MONTHLY MONITORING

Work Progress in 'S' Curve

Name of Sub-Project : Suda Deep Tubewell Irrigation Sub-Project, Kanchanpur

Progress Up to

| | |
|-----------------------------|--|
| Contract Package No.: | IWRMP-AF/W/GW-Kanchanpur/073-74/Suda DTW (PH&OT)/92/2 |
| Contract Title: | Construction of Pump House with Over Head Tank Including MS Fittings and Distribution System |
| Date of Agreement: | |
| Notice of Commencement: | |
| Commencement Date: | |
| Due date of completion: | |
| Construction Period: | 5 Months |
| Contractor: | |
| Contract Amount with VAT: | |
| Completion cost with VAT: | |
| Total Payment Made to Date: | - |
| Financial Progress (%): | |
| Date of reporting | |
| Time Elapsed (Days): | 0 |
| Physical Progress (%): | |
| Physical Target (%): | |
| Main Structures | 1. Pump House 2. uPVC Pipe Works 3. Outlet with alfa-alfa Valve 4. Over Head Tank |
| Major Problems/Issues | |
| Action Taken/Proposed | |



Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

WESTERN REGION
AGRICULTURE TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

March 2018 / Chaitra 2074

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1 PROJECT IMPLEMENTATION

1.1 Progress to Date

Progress of ICWMP activities are given in Table 1. Total number of different extension activities run during reporting period in concerned ISPs include: 1 FFS, 55 demonstrations, 20 training, 2 income generation activities, 5 ha of seed multiplication of different crops, 9 coordination meetings, 8 cowshed management and 10 plastic-house tunnels. Total to date of all extension activities are presented in the last column of the Table 1.

Table 1 Progress of ICWMP Activities

| Activities | Previous Total | Current Reporting Period | | | | Total to Date |
|------------------------------|----------------|--------------------------|------|-------|-------|---------------|
| | | Mountain | Hill | Terai | Total | |
| Seasonal Planning | 55 | 0 | 0 | 0 | 0 | 55 |
| FFS | 16 | 0 | 0 | 1 | 1 | 17 |
| Demonstration | 108 | 0 | 44 | 11 | 55 | 163 |
| Training | 61 | 1 | 15 | 4 | 20 | 81 |
| Income Generation | 17 | 0 | 2 | 0 | 2 | 19 |
| Seed multiplication (ha) | 155.4 | 0 | 3.75 | 1.25 | 5.0 | 160.4 |
| SP visits to Farmers | 22 | 0 | 0 | 0 | 0 | 22 |
| Coordination Meetings | 30 | 0 | 9 | 0 | 9 | 39 |
| Small Machinery Distribution | 61 | 0 | 0 | 0 | 0 | 61 |
| Cowshed Management | 31 | 0 | 8 | 0 | 8 | 39 |
| Plastic Tunnels | 83 | 0 | 10 | 0 | 10 | 93 |
| Youth Employment | 43 | 0 | 0 | 0 | 0 | 43 |

Participation in extension activities in terms of personnel are presented in Table 2. A total of 433 male (56.1%) and 339 females (43.9%) participated in different activities of which 258 were Janjatis (33.4%) and 36 were Dalits (5%). Participation of the total to-date included 2917 males (53.5% and 2539 females (46.5%) of which 1710 were Janjatis (31.3%) and 296 were Dalits (5%).

Table 2 Participation in Agriculture Extension Activities

| | Previously | | Reporting Period | | Total to Date | |
|---------|------------|----|------------------|------|---------------|------|
| | No | % | No | % | No | % |
| Events | 253 | | 62 | | 315 | |
| Male | 2484 | 53 | 433 | 56.1 | 2917 | 53.5 |
| Female | 2200 | 47 | 339 | 43.9 | 2539 | 46.5 |
| Total | 4684 | | 772 | | 5456 | |
| Janjati | 1452 | 31 | 258 | 33.4 | 1710 | 31.3 |
| Dalit | 260 | 6 | 36 | 5 | 296 | 5.4 |

1.2 Work Programme until End of Project

For work programme until end of the project, feedback from DADOs consulted indicates that in the current scenarios of paradigm shift in local administrative transformation no additional program or activities seem possible to implement in the district and those need to be planned and implemented in

consultation with concerned stakeholders like Local Rural or Town Municipality Agriculture Technicians and the concerned ISPs. DADO's feedback reasoning are as follows:

- Concerned DADOs say that they have the problem of technical staffs to run any additional activities in this fiscal year. Besides DADOs themselves wonder when they will move away from their current office or where they are to be transferred elsewhere within next few weeks or so, they don't know. They are waiting for their transfer elsewhere.

Table 3 Planned ICWMP Activities 16 March to 30 June 2018

| Activities | Total to End of 6 th Trimester | Planned Activities | | | | Projected Total |
|------------------------------|---|--------------------|------|-------|-------|-----------------|
| | | Mountain | Hill | Terai | Total | |
| Seasonal Planning | 55 | 0 | 0 | 0 | 0 | 55 |
| FFS | 17 | 0 | 0 | 0 | 0 | 17 |
| Demonstration | 163 | 0 | 0 | 0 | 0 | 163 |
| Training | 81 | 0 | 5 | 4 | 9 | 90 |
| Income Generation | 19 | 0 | 0 | 0 | 0 | 19 |
| Seed multiplication (ha) | 160.4 | 0 | 0 | 0 | 0 | 160.4 |
| SP visits to Farmers | 22 | 0 | 0 | 0 | 0 | 22 |
| Coordination Meetings | 39 | 0 | 0 | 0 | 0 | 39 |
| Small Machinery Distribution | 61 | 0 | 0 | 0 | 0 | 61 |
| Cowshed Management | 39 | 0 | 0 | 0 | 0 | 39 |
| Plastic Tunnels | 93 | 0 | 0 | 0 | 0 | 93 |
| Youth Employment | 43 | 0 | 0 | 0 | 0 | 43 |

***= At all 8 New ISPs of West Region and one more at DamkaPhant ISP (AF) at Gulmi**

- Even DADO's IWRMP programs are hampered /diluted due to unforeseen circumstances caused by sudden transfer of almost all technical and administrative staffs due to their transfer elsewhere in the new transformation of the local, regional and federal governance systems. Also, village/rural or town municipality want to run all developmental programs/activities in their own jurisdiction with their technical unit in different fields.
- DADOs of Nawalparasi (Bhorlebas ISP) and Parbat (Gyandi ISP) district have mentioned their reluctance to face the farmers due to futile ADP project exercise done last year.

However, capacity development training activities covering vegetables and paddy production management aspects are suggested/planned in Table 3. It needs to cover paddy and vegetables production technologies and management of pests in paddy and vegetables such as by promotion of traditional organic ways of pest control measures, safer pesticides and safer ways of using pesticides in field crops and efficient water management measures, could be recommended in Parbat (2 i.e. one each in Gyandi and Ratikhola), in Gulmi (2 i.e. one each in RumtaAambot and Damkaphant), in Nawalparasi (2 i.e. one each in new Bhorlebas and Petbaniya DTW ISPs), in new district of Nawalpur (1 in Bhedabari ISP), in Kaski (1 in TalloDabake) and in Rupandehi 1 at BLGWP DTW Rehab II, if an additional provision of budget required is released in time from IWRMP, Component "D" or concerned authority to the respective office(s) belonging to Local Rural/Town Municipalities of the ISPs subject to Agriculture Technician deployed in those places as well.

But, then Rural/Town Agriculture Technicians must be duly guided and instructed by IWRMP, Component "D" in terms of timely and written approval of the program activities along with required budget allocation, to the concerned Local Rural/Town Municipalities of the ISPs so as to accomplish the tasks defined. This appears to be difficult to come by in such limited time.

2 PROJECT BENEFITS

2.1 Crop Production

Mean data of the fiscal year 2016/17 on crop productivity from 34 ISPs of 16 districts of which 3 are from Mountain districts, 24 are from Hill districts, 5 are from Terai Surface Irrigation Schemes and 2 are from Terai Ground Water Schemes as presented in Table 4. Among these 34 ISPs, mean productivity of cereals altogether increased by 28%. However, the increase in productivity of individual commodity in paddy was 28%, in wheat it was 27% and in maize it was 28%.

Table 4 Productivity of Cereal Crops in Completed Subprojects

| Ecological Belt | No of ISPs | Yield (t/ha) | | | | | |
|---------------------|------------|--------------|---------|-------|---------|-------|---------|
| | | Paddy | | Wheat | | Maize | |
| | | Base | Current | Base | Current | Base | Current |
| Mountain | 3 | 0 | 0 | 1.50 | 1.80 | 1.41 | 1.83 |
| Hill | 24 | 2.81 | 3.62 | 2.34 | 2.80 | 1.94 | 2.51 |
| Terai (Surface) | 5 | 3.70 | 4.28 | 2.70 | 2.94 | 3.58 | 4.01 |
| Terai (Groundwater) | 2 | 2.98 | 4.75 | 1.72 | 3.65 | 2.26 | 3.88 |
| Average | | 2.96 | 3.80 | 2.28 | 2.90 | 2.15 | 2.75 |
| Increase (%) | | | 28.37 | | 27.19 | | 27.96 |

Mean data of the fiscal year 2016/17 on crop productivity from 34 ISPs of 16 districts of which 3 are from Mountain districts, 24 are from Hill districts, 5 are from Terai Surface Irrigation Schemes and 2 are from Terai Ground Water Schemes as presented in Table 5. Among these 34 ISPs, mean productivity of cash crops of potato and vegetables was found to be increased by 69%. However, a higher increase in productivity in potato was found to be at 80%, followed by 59% in vegetables.

Table 5 Productivity of Cash Crops in Completed Subprojects

| Ecological Belt | No of ISPs | Yield (t/ha) | | | |
|---------------------|------------|--------------|---------|------------|---------|
| | | Potato | | Vegetables | |
| | | Base | Current | Base | Current |
| Mountain | 3 | 7.60 | 13.65 | 7.25 | 11.50 |
| Hill | 24 | 9.69 | 15.34 | 8.80 | 12.77 |
| Terai (Surface) | 5 | 12.55 | 14.86 | 13.46 | 14.60 |
| Terai (Groundwater) | 2 | 7.06 | 16.79 | 6.86 | 15.52 |
| Average | | 7.60 | 13.65 | 7.25 | 11.50 |
| Increase (%) | | | 79.6% | | 58.6% |

Mean data of the fiscal year 2016/17 on average cropping intensity of 34 ISPs of 3 from Mountain districts, 24 from Hill districts, 5 from Terai Surface Irrigation Schemes and 2 from Ground Water Irrigation Schemes are presented in Table 6. Among these 34 ISPs, mean cropping intensity increased from baseline data by 45% that reached the mean cropping intensity to 208% from the mean baseline data of 163%

Table 6 Cropping Intensity in Completed Subprojects

| Ecological Belt | No of ISPs | Cropping Intensity (%) | |
|---------------------|------------|------------------------|---------|
| | | Baseline | Current |
| Mountain | 3 | 87 | 109 |
| Hill | 24 | 171 | 222 |
| Terai (Surface) | 5 | 170.2 | 206.4 |
| Terai (Groundwater) | 2 | 162.5 | 195 |
| Average | | 163 | 208 |
| Increase (%) | | | 45% |

2.2 Beneficiary Income

Mean data of the fiscal year 2016/17 on average beneficiary income from paddy in 31 ISPs of which 24 are Hill districts, 5 are Terai Surface Irrigation Schemes and 2 are from Terai Ground Water Irrigation Schemes, was found to Rs. 41084 per ha (Table 7), whereas the average beneficiary income from 34 districts from wheat was Rs. 28472 and from maize it was Rs. 26227 per ha.

Table 7 Financial Returns of Cereal Crops in Completed Projects

| Ecological Belt | No of ISPs | Income and Costs (NRs/ha) | | | | | | | | |
|-----------------|------------|---------------------------|--------------------|------------|--------------|--------------------|------------|--------------|--------------------|------------|
| | | Paddy | | | Wheat | | | Maize | | |
| | | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income |
| Mountain | 3 | | | | 58,700 | 34,500 | 24,200 | 63,400 | 36,200 | 27,200 |
| Hill | 24 | 134,709 | 89,674 | 45,035 | 85,457 | 58,995 | 26,462 | 86,041 | 59,775 | 26,266 |
| Terai (S) | 5 | 94,198 | 66,471 | 27,727 | 73,000 | 55,737 | 17,262 | 78,158 | 55,410 | 22,748 |
| Terai (GW) | 2 | 92,698 | 66,650 | 26,048 | 76,599 | 60,839 | 15,760 | 89,949 | 61,446 | 28,503 |
| Average | | 125,464 | 84,446 | 41,018 | 76,626 | 48,154 | 28,472 | 83,379 | 57,151 | 26,227 |

Mean data of the fiscal year 2016/17 on average beneficiary income of the cash crop of potato from 34 ISPs of which 24 are Hill districts, 5 are Terai Surface Irrigation Schemes and 2 are from Terai Ground Water Irrigation Schemes, was found to be Rs. 104,957 per ha (Table 8), whereas the average beneficiary income from 34 ISPs from different vegetables was found to be Rs. 113,328 per ha. There is good prospect of income generation from cash crops of potato and different vegetables.

Table 8 Financial Returns of Cash Crops in Completed Projects

| Ecological Belt | No of ISPs | Income and Costs (NRs/ha) | | | | | |
|---------------------|------------|---------------------------|--------------------|------------|--------------|--------------------|------------|
| | | Potato | | | Vegetable | | |
| | | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income |
| Mountain | 3 | 128,995 | 65,000 | 63,995 | 139,999 | 71,500 | 68,499 |
| Hill | 24 | 253,294 | 133,150 | 120,144 | 263,463 | 134,145 | 129,318 |
| Terai (Surface) | 5 | 195,395 | 109,466 | 85,929 | 174,973 | 96,412 | 78,561 |
| Terai (Groundwater) | 2 | 120,918 | 89,369 | 31,548 | 212,696 | 137,080 | 75,616 |
| Average | | 226,025 | 121,068 | 104,957 | 236,570 | 123,241 | 113,328 |

2.3 Comparison of IWRMP ISP and District Crop Yields

The variation in the ISP yield of paddy in Damaidhunga as compared to that of the district report for Arghakanchhi and found to be +11.2%, whereas in case of wheat and maize crops the variation was +9.6% and - 5.5%, respectively. Similarly, in Gorkha district, the yield variation with respect to paddy, wheat and maize were found to be +8.8%, +10.5 and - 6.9%, respectively for Pokharatar ISP. Variation of ISPs' average productivity when compared to that of district reported productivity ranged as 10% in paddy, 10.5% in wheat and -6.2% in maize productivity.

Table 9 Comparison of IWRMP ISP and District Cereal Crop Yields

| District | Average Yield (kg/ha) | | | | | | | | |
|--------------|-----------------------|----------|-------------|------------|----------|-------------|------------|----------|-------------|
| | Paddy | | | Wheat | | | Maize | | |
| | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation |
| Arghakanchhi | 3,584 | 3,200 | +11.2 | 2,630 | 2,400 | +9.6 | 2,363 | 2,500 | - 5.5 |
| Gorkha | 3,808 | 3,500 | +8.8 | 2,763 | 2,500 | +10.5 | 2,141 | 2,300 | - 6.9 |

In Arghakanchhi, the variation in the ISP yield of potato as compared to that of the district report was found to be +11.5%, whereas in case of vegetables, the variation was +13.2%. Similarly, in Gorkha district, the yield variation with respect to potato and vegetables were found to be - 13.2% and -12.5%, respectively (Table 10). Variation of ISPs' average productivity when compared to that of district reported productivity ranged as - 0.85% in potato and - 0.35% in vegetables, (Table 10). This indicates insignificant difference with district data for the F. Y. 2016/17.

Table 10 Comparison of IWRMP ISP and District Cash Crop Yields

| District | Average Yield (kg/ha) | | | | | |
|------------|-----------------------|----------|-------------|------------|----------|-------------|
| | Potatoes | | | Vegetables | | |
| | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation |
| ARGHAKCHHI | 16,725 | 15,000 | +11.5 | 14,716 | 13,000 | +13.2 |
| GORKHA | 10,416 | 12,000 | - 13.2 | 9,625 | 11,000 | - 12.5 |

3 TA TEAM AGRICULTURE ACTIVITIES

3.1 Project Coordination

Monthly regional meeting with Regional Irrigation Directorate were regularly attended that help share information of our field activities as part of project coordination. Table 11 includes number of monthly meetings during 6th trimester.

Table 11 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned stakeholders | Plan | 18 | 1 | 1 | 1 | 1 | 4 | 22 |
| | | Done | 18 | 1 | 1 | 1 | 1 | 4 | 22 |

3.2 DFSR and SEMP Preparation

Assistance was provided in preparation and/or review of DFSRs and SEMPS in all 8 New ISPs last year (2017).

3.3 Agriculture Extension and Development Plans

Action plan review data for agriculture extension and development plans of the activities from 4.1, 4.2 4.3 and 4.4 are summarized in Table 12. During current 6th trimester of Field visits to ISPs to interact with farmers and farmers' groups were in 10 ISPs, Support training on efficient water management were in 6 ISPs, Support training on efficient water management were in 10 ISPs and Support training on income generation, high value crops & safe use of pesticides were in 10 ISPs Interactions with the group farmers where male, female from respective head, mid and tail- ends were there in most cases. Group interactions in following diverse activities were highly significant in terms of sharing technical information/lessons from TA-Team that hopefully will help develop their capacities in these aspects as well.

Table 12 Action Plan Review for Agricultural Extension & Development Plans

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Field visits to ISPs to interact with farmers and farmers' groups | Plan | 8 | 3 | 3 | 3 | | 9 | 17 |
| | | Done | 13 | 4 | 3 | 3 | | 10 | 23 |
| 4.2 | Support training on efficient water management | Plan | 3 | 1 | 1 | 1 | | 3 | 6 |
| | | Done | 3 | 1 | 2 | 3 | | 6 | 9 |
| 4.3 | Support training on crop calendar planning and cultivation of hybrid and improved varieties | Plan | 3 | 1 | 1 | 1 | | 3 | 6 |
| | | Done | 13 | 4 | 3 | 3 | | 10 | 23 |
| 4.4 | Support training on income generation, high value crops & safe use of pesticides | Plan | 3 | 1 | 1 | 1 | | 6 | 9 |
| | | Done | 13 | 4 | 3 | 3 | | 10 | 23 |

3.4 Monitoring and Evaluation

Action plan review for monitoring and evaluation from 5.1, 5.2, 5.3, 5.4 and 5.5 are summarized in Table 13. During current 6th trimester Updating of agriculture information and M & E data from IDD/IDSD/GWIDD/DADOs, productivity data were collected from 21 ISPs until this current period of 6th trimester and altogether productivity data were compiled for a total of 34 ISPs from DADOs concerned. Overall compilation on productivity data, cropping intensity data and financial returns from crops are presented above under the Section of 2.1 Crop Production and Section 2.2 Beneficiary Income.

Verification of M&E data from sample subprojects were in 2 ISPs, Verification of agric development procedure of Compt D, implemented by DADO on sample ISPs was in 1 ISP, Documentation of WUA adherence to seasonal planning was in 1 ISP, Assessment of district and IWRMP ISP productivity were in 2 ISPs. Group feedback interactions in different ISPs in following diverse activities were highly significant in terms of reviewing on these activities.

Table 13 Action Plan Review for Monitoring and Evaluation

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|--------------|----------|---------------------------|---|---|---|--------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.1 | Update agriculture information and M&E data from IDD/IDSD/GWIDD/DADOs | Plan Done | 14 13 | 29 6 | 3 | 3 | 9 | 21 | 34 34 |
| 5.2 | Verify M&E data from sample subprojects | Plan Done | 2 2 | | | 2 | 2 | 2 | 4 4 |
| 5.3 | Verify agric development procedure of Compt D, implemented by DADO on sample ISPs | Plan Done | | 1 | | 1 | | 1 1 | 1 1 |
| 5.4 | Document WUA adherence to seasonal planning | Plan Done | 1 1 | 1 | | 1 | | 1 1 | 2 2 |
| 5.5 | Assess district and IWRMP ISP productivity | Plan Done | 2 2 | | | 2 | 2 | 2 2 | 4 4 |

Verification of M & E data of DADO and its comparison with ISPs's data concerned that were synthesized from the farmers' group interaction during field visits in KopcheDamare ISP, Arghakhanchi and Bakrangbesi ISP, Gorkha districts. The data are presented in Table 14 and Table 15. In Arghakhanchi, the variation in the ISP yield of paddy as compared to that of the district report was found to be +12.5%, whereas in case of wheat and maize crops the variation was +11.1% and +7.1%, respectively. Similarly, in Gorkha district, the yield variation with respect to paddy, wheat and maize were found to be +7.1%, +4% and - 8.6%, respectively (Table 14). Average variation of 2 ISPs' when compared to that of district reported productivity ranged as +9.8% in paddy, +7.5% in wheat and -1.5% in maize productivity. This indicates that the M & E of DADOs almost tally with that of the WUA group interaction of IWRMP ISPs for the F. Y. 2016/17.

Table 14 Comparison of IWRMP ISP and District Crop Yields II

| District | Average Yield (kg/ha) | | | | | | | | |
|----------------------------|-----------------------|----------|-------------|------------|----------|-------------|------------|----------|-------------|
| | Paddy | | | Wheat | | | Maize | | |
| | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation |
| ARGHAKCHHI KopcheDamare | 3,600 | 3,200 | +12.5 | 2,000 | 1,800 | +11.1 | 2,250 | 2,100 | +7.1 |
| GORKHA Bakrangbesi | 3800 | 3500 | +7.1 | 2600 | 2500 | +4.0 | 2100 | 2300 | - 8.6 |
| Average | | | +9.8% | | | +7.5% | | | - 1.5 |

Similarly, farmers' response with respect to district M & E data of concerned ISPs were tallied with ISP's data while discussing/interacting with the WUA/farmers's groups and the results are presented in Table 15 below for potato and vegetables crops as well. In KopcheDamareISP, Arghakhanchi, the variation in the ISP yield of potato as compared to that of the district report was found to be -7.7%, whereas in case of vegetables, the variation was +8.2%. Similarly, in Bakrangbesi ISP, Gorkha district, the yield variation with respect to potato and vegetables were found to be - 5.0% and -10.0%, respectively. Average variation per cent of ISPs' productivity when compared with district reported productivity ranged as - 6.3% in potato and +9.1% in vegetables. This indicates that the M & E data of DADOs almost tally with that of the WUA group interaction feedback from IWRMP ISPs for the F. Y. 2016/17

Table 15 Comparison of IWRMP ISP and District Cash Crop Yields II

| District | Average Yield (kg/ha) | | | | | |
|----------------------------|-----------------------|----------|----------------|---------------|----------|----------------|
| | Potatoes | | | Vegetables | | |
| | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation |
| ARGHAKCHHI KopcheDamare | 12,000 | 13,000 | -7.7 | 14,000 | 13,000 | +8.2 |
| GORKHA Bakrangbesi | 10,000 | 10,500 | - 5.0 | 11,000 | 10,000 | +10.0 |
| Average | | | -6.3% | | | +9.1% |

Verification of agric development procedure of Compt D, implemented by DADO on sample ISPs was done during field visit in Pokharatar ISP of Gorkha. It was found that agric development procedures there were: 1 seasonal planning workshop, 1 FFS, 3 crop demonstrations, 3 Trainings, 105 Income generation by vegetable packets distribution, 0.6 ha coverage in seed multiplication, 1 power tiller distribution as small machinery and distribution of 5 plastic-house for making tunnels to grow vegetables. This reflects an array of the items implemented by DADO office of Gorkha in Pokharatar during F. Y.2016/17.

Documentation of WUA adherence to seasonal planning was attempted through interaction with WUA/farmers at Pokharatar, Gorkha and it was found that WUA adherence to seasonal planning was not consistent there.

Comparison of IWRMP ISP and district crop yields has been presented under Section 3.5 above. Assessment of district and IWRMP ISP productivity were verified in 2 ISPs are already presented above under the Section 2.3 where comparison of IWRMP ISPs and district crop yields are presented and discussed with data in Table 9 and Table 10 in page 6..

4 KEY ISSUES

There has been a paradigm shift in local governance system and empowerment of local municipalities and village level other offices. Agriculture extension support activities provided by DADOs concerned looks to be confined to central level projects like IWRMP with limited staff until the mid-June 1918. Most of the technical manpower from DADO offices seems to have moved to rural/urban municipalities for supporting technical programs/activities which may take time for overall fine-tuning and harmonization in the new systems of human resources management.

Some of the WUAs have been found not proactive to contact with DADO officials in the context of asking for agriculture support programs from them. However, TA-Team during the field visits has encouraged both the organizations, to be transparent in WUA's IWRMP program supports on behalf of DADOs concerned and to be proactive on behalf of WUAs concerned.

However, effort on data collection through DADO offices concerned will be continued as usual despite of the need to make special request to them time and again.

But, still enough room for improvement in mutual coordination between district line agencies especially like DADO and IDD concerned including WUAs in the district.

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

MID WESTERN REGION
AGRICULTURE TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

March 2018

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1 PROJECT IMPLEMENTATION

1.1 Progress to Date

Various agriculture extension activities were conducted during the reporting period have been given in Table-1. All together data related to 8 types of agriculture extension activities were conducted during reporting period in Irrigation Sub Projects of IWRMP (AF) presented here. Conducted activities include FFS (3), Demonstration (39), Training (8), Income generation(125), Seed multiplication (9 ha.) and Coordination meeting (2). Cowshed Management (27), Plastic Tunnel (2). Seasonal Planning, SP visits to Farmers, Small Machinery Distribution and Youth Employment activities were not conducted during this reporting period.

Table 1 Progress of ICWMP Activities

| Activities | Previous Total | Current Reporting Period | | | | Total to Date |
|------------------------------|----------------|--------------------------|------|-------|-------|---------------|
| | | Mountain | Hill | Teraï | Total | |
| Seasonal Planning | 11 | 0 | 0 | 0 | 0 | 11 |
| FFS | 5 | 0 | 2 | 1 | 3 | 8 |
| Demonstration | 28 | 0 | 17 | 22 | 39 | 67 |
| Training | 13 | 0 | 4 | 4 | 8 | 21 |
| Income Generation | 12 | 0 | 100 | 25 | 125 | 137 |
| Seed multiplication (ha) | 47 | 0 | 9 | 0 | 9 | 56 |
| SP visits to Farmers | 0 | 0 | 0 | 0 | 0 | 0 |
| Coordination Meetings | 20 | 0 | 2 | 0 | 2 | 22 |
| Small Machinery Distribution | 9 | 0 | 0 | 0 | 0 | 9 |
| Cowshed Management | 0 | 0 | 22 | 5 | 27 | 27 |
| Plastic Tunnels | 30 | 0 | 2 | 0 | 2 | 32 |
| Youth Employment | 10 | 0 | 0 | 0 | 0 | 10 |

Participation of Water User Association (WUA) members, Water User Farmers in different agriculture extension activities have been given in Table 2. All together 206 events were conducted during the reporting period. Data shows that overall participation of Female, Janjati and Dalit in agriculture extension activities during the reporting period is 55%, 42% and 11% respectively.

Table 2 Participation in Agriculture Extension Activities

| | Previously | | Reporting Period | | Total to Date | |
|---------|------------|-----|------------------|-----|---------------|-----|
| | No | % | No | % | No | % |
| Events | 99 | | 206 | | 303 | |
| Male | 897 | 49 | 232 | 45 | 1129 | 48 |
| Female | 928 | 51 | 280 | 55 | 1208 | 52 |
| Total | 1825 | 100 | 512 | 100 | 2335 | 100 |
| Janjati | 479 | 26 | 214 | 42 | 693 | 30 |
| Dalit | 250 | 14 | 54 | 11 | 304 | 13 |

1.2 Work Programme until End of Project

DADOs staffs were asked for targeted Agricultural Extension activities and their probability of implementation for next trimester i.e.16March to 30 June 2018. An assumption made based on data received from DADOs and their commitment has been given in Table 3.

Table 3 Planned ICWMP Activities 16 March to 30 June 2018

| Activities | Total to End of 6 th Trimester | Planned Activities | | | | Projected Total |
|------------------------------|--|--------------------|------|-------|-------|--------------------|
| | | Mountain | Hill | Terai | Total | |
| Seasonal Planning | 11 | 0 | 0 | 0 | 0 | 11 |
| FFS | 8 | 0 | 0 | 0 | 0 | 8 |
| Demonstration | 67 | 0 | 8 | 5 | 13 | 80 |
| Training | 21 | 0 | 4 | 3 | 7 | 28 |
| Income Generation | 137 | 0 | 5 | 0 | 5 | 142 |
| Seed multiplication (ha) | 56 | 0 | 15 | 15 | 30 | 86 |
| SP visits to Farmers | 0 | 0 | 0 | 0 | 0 | 0 |
| Coordination Meetings | 22 | 0 | 0 | 0 | 0 | 22 |
| Small Machinery Distribution | 9 | 0 | 0 | 0 | 0 | 0 |
| Cowshed Management | 27 | 0 | 0 | 0 | 0 | 0 |
| Plastic Tunnels | 32 | 0 | 0 | 0 | 0 | 0 |
| Youth Employment | 10 | 0 | 2 | 1 | 3 | 13 |

2 PROJECT BENEFITS

2.1 Crop Production

Productivity of Cereal Crops and Cash crops in Completed Irrigation Sub Projects (ISP) has been given in Table-4 and Table-5 respectively. The average increments of current productivity of Paddy, Wheat and Maize in the reporting period over the base are 22.50%, 17.66% and 24.54% respectively. Similarly the average increments to current productivity of Potato and Vegetable in the reporting period over the base are 73.68% and 78.01% respectively.

Table 4 Productivity of Cereal Crops in Completed Subprojects

| Ecological Belt | No of ISPs | Yield (t/ha) | | | | | |
|---------------------|------------|--------------|---------|-------|---------|-------|---------|
| | | Paddy | | Wheat | | Maize | |
| | | Base | Current | Base | Current | Base | Current |
| Mountain | 1 | 1.70 | 1.70 | 1.20 | 1.20 | 1.65 | 1.65 |
| Hill | 11 | 2.36 | 3.02 | 2.07 | 2.50 | 2.21 | 2.62 |
| Terai (Surface) | 6 | 2.72 | 3.19 | 1.86 | 2.14 | 1.63 | 2.34 |
| Terai (Groundwater) | 3 | 2.97 | 3.57 | 2.08 | 2.38 | 1.80 | 2.28 |
| Average | | 2.51 | 3.08 | 1.97 | 2.32 | 1.96 | 2.44 |
| Increase (%) | | | 22.50 | | 17.66 | | 24.54 |

Table 5 Productivity of Cash Crops in Completed Subprojects

| Ecological Belt | No of ISPs | Yield (t/ha) | | | |
|---------------------|------------|--------------|---------|------------|---------|
| | | Potato | | Vegetables | |
| | | Base | Current | Base | Current |
| Mountain | 1 | 10.00 | 10.00 | 0.00 | 0.00 |
| Hill | 11 | 7.06 | 13.09 | 5.52 | 10.41 |
| Terai (Surface) | 6 | 6.49 | 10.58 | 7.80 | 11.83 |
| Terai (Groundwater) | 3 | 5.10 | 10.33 | 4.33 | 9.67 |
| Average | | 6.81 | 11.83 | 5.74 | 10.21 |
| Increase (%) | | | 73.68 | | 78.01 |

Cropping Intensity (CI) in completed Sub Projects has been given in Table-6. Average increment of Cropping Intensity of the reporting period over the base period is 16 %.

Table 6 Cropping Intensity in Completed Subprojects

| Ecological Belt | No of ISPs | Cropping Intensity (%) | |
|---------------------|------------|------------------------|---------|
| | | Baseline | Current |
| Mountain | 1 | 132.14 | 132.14 |
| Hill | 11 | 151.79 | 186.87 |
| Terai (Surface) | 6 | 152.03 | 166.99 |
| Terai (Groundwater) | 3 | 133.32 | 141.59 |
| Average | | 148.28 | 172.11 |
| Increase (%) | | | 16 |

2.2 Beneficiary Income

Financial returns of Cereal Crops in completed projects of mid western region have been given in Table-7. Average Net Income from Paddy, Wheat and Maize were Rs. 34296, 29921 and 28764 respectively. Average cost of production per ha of Rice was Rs62095 followed by WheatRs48727 and MaizeRs 47867 per ha. Net income per unit cost of Paddy, Wheat and Maize are 0.55, 0.61 and 0.60 respectively. Net income over per unit cost of Wheat found higher i.e. 0.61 followed by Maize 0.60 and lowest in Rice 0.55.

Table 7 Financial Returns of Cereal Crops in Completed Projects

| Ecological Belt | No of ISPs | Income and Costs (NRs/ha) | | | | | | | | |
|-----------------|------------|---------------------------|--------------------|------------|--------------|--------------------|------------|--------------|--------------------|------------|
| | | Paddy | | | Wheat | | | Maize | | |
| | | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income |
| Mountain | 1 | 150,000 | 100,000 | 50,000 | 150,000 | 125,000 | 25,000 | 130,000 | 98,000 | 32,000 |
| Hill | 11 | 85,682 | 51,363 | 32,450 | 71,391 | 43,915 | 27,476 | 77,364 | 45,709 | 31,655 |
| Terai (S) | 6 | 102,883 | 70,433 | 32,450 | 79,333 | 47,533 | 31,800 | 69,542 | 43,200 | 26,342 |
| Terai (GW) | 3 | 104,800 | 72,133 | 32,667 | 68,567 | 43,333 | 36,767 | 79,267 | 48,400 | 21,933 |
| Average | | 96,390 | 62,095 | 34,296 | 77,000 | 48,727 | 29,921 | 77,907 | 47,867 | 28,764 |

Financial returns of Cash crops in Completed projects of mid western region have been given in Table-8. The average returns from Potato and Vegetable were NRs/ha 132644 and 205924 respectively. Ratio for net income per unit cost of Potato and Vegetable was 0.91 and 1.48 respectively. This data shows that Vegetable is more profitable among cash crops.

Table 8 Financial Returns of Cash Crops in Completed Projects

| Ecological Belt | No of ISPs | Income and Costs (NRs/ha) | | | | | |
|---------------------|------------|---------------------------|--------------------|------------|--------------|--------------------|------------|
| | | Potato | | | Vegetable | | |
| | | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income |
| Mountain | 1 | 225,000 | 160,000 | 65,000 | 350,000 | 200,000 | 150,000 |
| Hill | 11 | 263,724 | 110,222 | 153,502 | 342,051 | 122,460 | 219,591 |
| Terai (Surface) | 6 | 309,667 | 187,667 | 122,000 | 346,000 | 155,017 | 190,983 |
| Terai (Groundwater) | 3 | 294,000 | 184,000 | 100,000 | 331,667 | 147,333 | 204,333 |
| Average | | 279,331 | 145,259 | 132,644 | 342,074 | 139,008 | 205,924 |

2.3 Comparison of IWRMP ISP and District Crop Yields

Comparison of Cereals and Cash crops of IWRMP ISP yield with corresponding district average yield data has been given in Table 9 and Table 10 respectively. Crop yield of two ISPs namely Jharkhet ISP of Surkhet district and BatuleKudule ISP of Bardiya district are compare. Data table shows that Yield of Rice crop in both Jharkhet ISP of Surkhet and BatuleKudule ISP of Bardiya district are found lower than district average i.e. -5.95 and -22.62% respectively. Higher yield of Vegetable crop of BatuleKudule ISP of Bardiya district is observed up to 82.33% as compare to district average followed by Potato crop of Jharkhet of Surkhet district is 72.84% than district average. Overall there is a potential of increment of yield of Paddy, Maize and Vegetable crops in Jharkhet ISP of Surkhet district whereas same opportunity for Paddy and Wheat in BatuleKuduleISP of Bardiya district.

Table 9 Comparison of IWRMP ISP and District Cereal Crop Yields

| District | Average Yield (t/ha) | | | | | | | | |
|----------|----------------------|----------|----------------|---------------|----------|----------------|---------------|----------|----------------|
| | Paddy | | | Wheat | | | Maize | | |
| | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation |
| Surkhet | 3.32 | 3.53 | -5.95 | 2.80 | 2.10 | 33.33 | 2.65 | 2.63 | 0.76 |
| Bardiya | 3.25 | 4.20 | -22.62 | 2.30 | 3.45 | -33.33 | 2.93 | 1.88 | 55.85 |

Table 10 Comparison of IWRMP ISP and District Cash Crop Yields

| District | Average Yield (t/ha) | | | | | |
|----------|----------------------|----------|----------------|---------------|----------|----------------|
| | Potatoes | | | Vegetables | | |
| | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation |
| Surkhet | 14.00 | 8.10 | 72.84 | 12.50 | 14.48 | -13.67 |
| Bardiya | 15.00 | 11.94 | 25.63 | 13.00 | 7.13 | 82.33 |

3 TA TEAM AGRICULTURE ACTIVITIES

3.1 Project Coordination

There is a close coordination with Regional Irrigation Directorate, Surkhet. TA-Team Surkhet participated in regional meeting on every month with the Director, MWRID for progress review, discussion on status of individual subprojects, problem and issues related to agriculture etc. Besides, other workshop was attended such as IWRMP Workshop organised by IWRMP-A from 25-29 January 2018 at Nepalgunj, Banke.

Table 11 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned stakeholders | Plan | 4 | 1 | 1 | 1 | 1 | 4 | 8 |
| | | Done | 4 | 1 | 1 | 1 | 1 | 4 | 8 |

3.2 DFSR and SEMP Preparation

No activities planned or carried out.

3.3 Agriculture Extension and Development Plans

Interaction with the WUA farmers and farmers groups were conducted which covered a set of activities on efficient water management, awareness on hybrids and improved varieties, income generation from high value crops and different aspects on safe use of pesticides while visiting ISPs. Site visit of KharigairaTatachaurISP of Dailekh district and Jharkhet ISP of Surkhet district was made. Due to health problem I could not participate as a team member in to February and March 2018 field visits. In coming visits I will try to cover Sub projects not visited.

Table 12 Action Plan Review for Agricultural Extension & Development Plans

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Field visits to ISPs to interact with farmers and farmers' groups | Plan | 8 | 3 | 3 | 3 | | 9 | 17 |
| | | Done | 11 | 2 | 0 | 0 | | 2 | 13 |
| 4.2 | Support training on efficient water management | Plan | 3 | 1 | 1 | 1 | | 3 | 6 |
| | | Done | 2 | 2 | 0 | 0 | | 2 | 4 |
| 4.3 | Support training on crop calendar planning and cultivation of hybrid and improved varieties | Plan | 3 | 1 | 1 | 1 | | 3 | 6 |
| | | Done | 2 | 2 | 0 | 0 | | 2 | 4 |
| 4.4 | Support training on income generation, high value crops & safe use of pesticides | Plan | 2 | 1 | 1 | 1 | | 3 | 5 |
| | | Done | 2 | 2 | 0 | 0 | | 2 | 4 |

3.4 Monitoring and Evaluation

Updated agriculture information and M&E data based on IDD/IDSD/GWIDD/DADOs. Productivity data and Cropping Intensity data are compiled for 22 completed ISPs during current 6th trimester. Overall compilation on productivity data, cropping intensity data and financial returns from crops are presented above under the Section of 2.1 Crop Production and Section 2.2 Beneficiary Income. Verify the M&E data from Jharkhet ISP and found similar to that of the data received from DADO. Productivity of two ISPs namely Jharkhet ISP of Surkhet district and BatuleKudule are compared to corresponding district average productivity.

Table 13 Action Plan Review for Monitoring and Evaluation

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.1 | Update agriculture information and M&E data from IDD/IDSD/GWIDD/DADOs | Plan | 9 | 16 | | | | 16 | 25 |
| | | Done | 17 | 16 | | | | 16 | 33 |
| 5.2 | Verify M&E data from sample subprojects | Plan | 2 | | | | 2 | 2 | 4 |
| | | Done | 2 | | | | 1 | 1 | 3 |
| 5.3 | Verify agric development procedure of Compt D, implemented by DADO on sample ISPs | Plan | | 1 | | | | 1 | 1 |
| | | Done | | | | | | | |
| 5.4 | Document WUA adherence to seasonal planning | Plan | | 1 | | | | 1 | 1 |
| | | Done | | | | | | | |
| 5.5 | Assess district and IWRMP ISP productivity | Plan | 2 | | | | 2 | 2 | 4 |
| | | Done | 6 | | | | 2 | 2 | 8 |

4 KEY ISSUES

Most of the DADO staff has transferred to the newly established municipalities under new administrative system adopted by the Nation. Very limited numbers of staffs are working and they are not able to conduct and maintain ICWMP activities and updated data in the district.

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

FAR WESTERN REGION
AGRICULTURE TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

26 March 2018

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1 PROJECT IMPLEMENTATION

1.1 Progress to Date

Different agriculture extension activities were done in the command area of Sadepani (DTW), Koteligad, Naktad, Bhattesal and Dhanraskhet ISPs of Far Western Region during 6th trimester period. The activities done are FFS (2) Demonstrations (17), Training (11), Income Generation (3) Seed Multiplication (6ha), SP visits to famers (18), coordination meeting (3), Plastic Tunnels (14) and Youth employment (1). They are presented in Table 1.

Table 1 Progress of ICWMP Activities

| Activities | Previous Total | Current Reporting Period | | | | Total to Date |
|------------------------------|----------------|--------------------------|------|-------|-------|---------------|
| | | Mountain | Hill | Terai | Total | |
| Seasonal Planning | 21 | | | | | 21 |
| FFS | 5 | | 2 | | 2 | 7 |
| Demonstration | 113 | | 7 | 10 | 17 | 130 |
| Training | 35 | 2 | 6 | 3 | 11 | 46 |
| Income Generation | 18 | | 3 | | 3 | 21 |
| Seed multiplication (ha) | 73 | | | 6 | 6 | 79 |
| SP visits to Farmers | 33 | 8 | 6 | 4 | 18 | 51 |
| Coordination Meetings | 17 | | | | 3 | 20 |
| Small Machinery Distribution | 46 | | | | | 46 |
| Cowshed Management | 41 | | | | | 41 |
| Plastic Tunnels | 30 | | 14 | | 14 | 94 |
| Youth Employment | 45 | | | 1 | 1 | 46 |

Participation of WUA members and beneficiary famers during 6th trimester period in different (69) events are presented in table 2. Male and female participation in agriculture extension activities were (63) and 266 respectively. Percent participation of male is 19% and female is 81% like wise participation of Janjati and Dalit is 3% and 4.5% respectively.

Table 2 Participation in Agriculture Extension Activities

| | Previously | | Reporting Period | | Total to Date | |
|---------|------------|------|------------------|------|---------------|------|
| | No | % | No | % | No | % |
| Events | 376 | | 69 | | 445 | |
| Male | 991 | 49 | 63 | 19 | 1054 | 45.8 |
| Female | 1032 | 51 | 266 | 81 | 1289 | 55 |
| Total | 2023 | | 329 | | 2352 | |
| Janjati | 130 | 6.42 | 10 | 3 | 140 | 5.95 |
| Dalit | 120 | 6 | 15 | 4.55 | 135 | 5.73 |

The impact of agriculture activities enrich the knowledge, skills and attitude of beneficiary farmers regarding newer irrigated crop production technique use of improved and hybrid varieties of crops and also helps to transfer newer improved irrigated crop production techniques farmers to farmers.

1.2 Work Programme until End of Project

Talk was done with officials of all 8 DADO office of Far Western Region about the agriculture extension activities to be implemented under ICWMP during 16th March 2018 to 30th June 2018 in the command area

of ISPs of the concerning district. DADO Dedeldhura, Baitadi and Kailali provided the list of agriculture extension activities to be conducted in the command area of ISPs of concerning district under ICWMP during 16th March 2018 to 30th June 2018. These planned activities are presented in Table 3.

Table 3 Planned ICWMP Activities 16 March to 30 June 2018

| Activities | Total to End of 5 th Trimester | Planned Activities | | | | Projected Total |
|------------------------------|---|--------------------|------|-------|-------|-----------------|
| | | Mountain | Hill | Terai | Total | |
| Seasonal Planning | 21 | | | | | 21 |
| FFS | 7 | | | 1 | | 8 |
| Demonstration | 130 | | 14 | 10 | 24 | 154 |
| Training | 46 | | 6 | 4 | 10 | 56 |
| Income Generation | 21 | | 5 | 2 | 7 | 28 |
| Seed multiplication (ha) | 79 | | 10 | 30 | 40 | 119 |
| SP visits to Farmers | 51 | | | | | 51 |
| Coordination Meetings | 20 | | | | 3 | 23 |
| Small Machinery Distribution | 46 | | | | | 46 |
| Cowshed Management | 41 | | 5 | | 5 | 46 |
| Plastic Tunnels | 94 | | | | | 94 |
| Youth Employment | 46 | | 4 | 2 | 6 | 52 |

Concerning DADO Offices are able to complete the ICWMP activities describe in table 3 within 30 June 2018 because all staffs are not transferred. Technical staff needed for implementation of ICWMP activities are sufficient in DADO office (District agriculture development officer, focal officer (Person) of ICWMP, other technical staff and administrative staff). These staffs can implement the planned ICWMP activities within 30th June 2018. Some activities are already in implementation stage.

2 PROJECT BENEFITS

2.1 Crop Production

The Data presented of crop productivity are from 12 completed subprojects of Far Western Region. The subprojects are Gailadi (Darchula) and Subefa Tallo Jiula (Bajhang) of Mountain region, Baduwa, Dhiktadi, Bhittesal and Jogijala of Dadeldhura, Dhanraskhet of Doti, Nwali, Limuda and Manekuda of Baitadi district of Hill region, Ratipur of Kailali district and Bagun of Kanchanpur district of Terai region. These data are presented in Table 4 and table 5. Updated data of cropping intensity of above 12 completed subprojects are presented in Table 6.

Table 4 Productivity of Cereal Crops in Completed Subprojects

| Ecological Belt | No of ISPs | Yield (t/ha) | | | | | |
|---------------------|------------|--------------|---------|-------|---------|-------|---------|
| | | Paddy | | Wheat | | Maize | |
| | | Base | Current | Base | Current | Base | Current |
| Mountain | 2 | 2.3 | 3.7 | 1.65 | 3.2 | 1.95 | 2.4 |
| Hill | 8 | 2.11 | 3.8 | 1.61 | 2.8 | 1.55 | 2.9 |
| Terai (Surface) | 2 | 2.7 | 4.25 | 1.72 | 3.45 | 1.3 | 3.65 |
| Terai (Groundwater) | | | | | | | |
| Average | | 2.37 | 3.92 | 1.09 | 3.15 | 1.6 | 3.0 |
| Increase (%) | | | 65 | | 189 | | 88 |

Table 4 shows crop productivities of cereals (Paddy, Wheat and Maize) in completed 12 subprojects. Percent increase in yields of Paddy, Wheat and Maize is 65%, 189% and 88% respectively. It is due to the timely availability of Irrigation water, use of improved seed and crop cultivation techniques.

Table 5 Productivity of Cash Crops in Completed Subprojects

| Ecological Belt | No of ISPs | Yield (t/ha) | | | |
|---------------------|------------|--------------|---------|------------|---------|
| | | Potato | | Vegetables | |
| | | Base | Current | Base | Current |
| Mountain | 2 | 6.6 | 14.5 | 7.25 | 13.85 |
| Hill | 8 | 8.41 | 15.3 | 8.33 | 13.3 |
| Terai (Surface) | 2 | 12 | 17.5 | 10 | 18.5 |
| Terai (Groundwater) | | | | | |
| Average | | 9.0 | 15.77 | 8.52 | 15.12 |
| Increase (%) | | | 75 | | 77 |

Table 5 shows the crop productivity of cash crops potato and vegetables in completed 12 subprojects. Percentage increase in yields of cash crops potato and vegetables was found to be 75% and 77% respectively. The timely availability of Irrigation water, use of improved seed and newer irrigated crop cultivation techniques are main causes of remarkable increase in the crop yield.

Table 6 Cropping Intensity in Completed Subprojects

| Ecological Belt | No of ISPs | Cropping Intensity (%) | |
|---------------------|------------|------------------------|---------|
| | | Baseline | Current |
| Mountain | 2 | 193 | 210 |
| Hill | 8 | 146 | 195 |
| Terai (Surface) | 2 | 152 | 235 |
| Terai (Groundwater) | | | |
| Average | | 163 | 213 |
| Increase (%) | | | 31 |

Average cropping intensity of 12 completed subprojects as compared to baseline data was increased by 31%. It was increased from 163 to 213%. It is due to the timely availability of Irrigation water, in summer season and cultivation of some crop in summer season.

2.2 Beneficiary Income

The beneficiary income of cereals (Paddy, Wheat, and Maiza) and cash crops (Potato and vegetables) is presented in table 7 and table 8 respectively. The beneficiary income of paddy and maiza is of F.Y. 2074/2075 (017/018) and wheat, potato and vegetable is of FY 073/074 (016/017)

Table 7 Financial Returns of Cereal Crops in Completed Projects

| Ecological Belt | No of ISPs | Income and Costs (NRs/ha) | | | | | | | | |
|-----------------|------------|---------------------------|--------------------|------------|--------------|--------------------|------------|--------------|--------------------|------------|
| | | Paddy | | | Wheat | | | Maize | | |
| | | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income |
| Mountain | 2 | 150750 | 85000 | 65750 | 131000 | 90000 | 41000 | 72122 | 41615 | 30507 |
| Hill | 8 | 137337 | 94750 | 43587 | 112315 | 80000 | 32315 | 96633 | 57983 | 38650 |
| Terai (S) | 2 | 104000 | 63500 | 39500 | 108500 | 71000 | 37500 | 91250 | 41000 | 50250 |
| Terai (GW) | | | | | | | | | | |
| Average | | 130695 | 81083 | 49612 | 117271 | 80333 | 36938 | 86568 | 46866 | 39802 |

It was found that average financial return (net income) per hectare from paddy, wheat and maiza is Nrs 49612, Nrs.36938 and NRs 39802 respectively Table 7.

Table 8 Financial Returns of Cash Crops in Completed Projects

| Ecological Belt | No of ISPs | Income and Costs (NRs/ha) | | | | | |
|---------------------|------------|---------------------------|--------------------|------------|--------------|--------------------|------------|
| | | Potato | | | Vegetable | | |
| | | Gross Income | Cost of Production | Net Income | Gross Income | Cost of Production | Net Income |
| Mountain | 2 | 485000 | 170000 | 315000 | 389000 | 137500 | 251500 |
| Hill | 8 | 485666 | 259833 | 225833 | 398600 | 203400 | 195200 |
| Terai (Surface) | 2 | 456000 | 250000 | 206000 | 419250 | 159000 | 260250 |
| Terai (Groundwater) | | | | | | | |
| Average | | 475555 | 226611 | 248944 | 402283 | 166633 | 235650 |

It was found that overall mean per hectare income from potato and vegetable in completed subprojects were NRs 248944 and NRs 235650 respectively.

2.3 Comparison of IWRMP ISP and District Crop Yields

Verification of crop productivity data by comparison with district average yields and IWRMP ISPs Yield was done during the FY 2073/2074. It was accomplished in 7 districts (Dadeldhura, Kanchanpur, Baitadi, Darchula, Bajhang, Bajura, Doti, Kailali) of Far Western, Region. It was found that 19% increase in paddy, 53% in wheat, 24% increase in maize table 9.

Table 9 Comparison of IWRMP ISP and District Cereal Crop Yields

| District | Average Yield (t/ha) | | | | | | | | |
|------------|----------------------|----------|-------------|------------|----------|-------------|------------|----------|-------------|
| | Paddy | | | Wheat | | | Maize | | |
| | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation |
| Dadeldhura | 4.45 | 4.0 | 11 | 3.15 | 1.5 | 110 | 3.6 | 3.5 | 18 |
| Kanchanpur | 3.75 | 3.45 | 3 | 3.05 | 2.4 | 27 | 3.68 | 2.75 | 34 |
| Baitadi | 3.13 | 2.1 | 49 | 2.45 | 1.95 | 26 | 2.4 | 1.65 | 45 |
| Darchula | 2.98 | 2.9 | 3 | 2.6 | 1.4 | 85 | 2.22 | 1.99 | 11 |
| Kailali | 4.5 | 4.2 | 7 | 3.5 | 3.32 | 5 | 1.3 | 1.04 | 25 |
| Doti | 3.3 | 2.35 | 40 | 2.5 | 2.0 | 25 | 2.5 | 2.4 | 4 |
| Bajhang | 3.7 | 3.31 | 12 | 2.88 | 1.47 | 96 | 2.53 | 1.91 | 32 |

The variation in the IWRMP ISP yield of paddy, wheat and maize as compared to that of the district report was found to be 19%, 53% and 24% respectively. Higher percentage increase in IWRMP ISPs over district average yields indicate that there is a regular availability of irrigation water, more agriculture extension activities in subprojects and cultivation of crops with improved irrigated techniques.

Table 10 Comparison of IWRMP ISP and District Cash Crop Yields

| District | Average Yield (t/ha) | | | | | |
|------------|----------------------|----------|-------------|------------|----------|-------------|
| | Potatoes | | | Vegetables | | |
| | IWRMP ISPs | District | % Variation | IWRMP ISPs | District | % Variation |
| Dadeldhura | 19. | 15.5 | 26 | 18.0 | 14 | 29 |
| Kanchanpur | 17.5 | 12.55 | 49 | 17.5 | 15 | 17 |
| Baitadi | 12.5 | 11 | 14 | 13.0 | 11 | 15 |
| Darchula | 12.5 | 9.36 | 34 | 12.6 | 12.3 | 2 |
| Kailali | 18.0 | 15 | 20 | 21.0 | 15 | 40 |
| Doti | 15.0 | 11 | 36 | 15.0 | 14 | 7 |
| Bajhang | 15.6 | 11 | 42 | 15.88 | 11.5 | 38 |

It was found that 30% increase (Variation) on Potato yield and 21% increase (variation) in vegetable yield in IWRMP subprojects as compared to that of the district report. The percent increase in the production of Potato and Vegetable in subprojects with comparison of district average production is due to the improve technology, regular availability of irrigation water and farmers skills and knowledge of Potato and vegetable production techniques.

3 TA TEAM AGRICULTURE ACTIVITIES

TA Team agriculture activities includes visits of offices of DADO/IDD/IDSD/GWIDD of Far Western Region to collect data and information and to update agriculture information and data in Data Book regarding agriculture extension activities, crop productivity, cropping intensity, cropped area cost benefit of crops and to Varsity M & E data and agriculture extension activities conducted in the command area of ISPs of Far Western Region during 6th trimester period. During this period visited the command area of Subeda Tallow Jiula, Subeda Malla Jiula, Deura Juwalikhet and Bhairabhnath ISPs of Bajhang, Baduwa (Twice), Jogijala (Twice) Dhiktadi ISPs of Dadeldhura, Koteligad (Twice) Limuda, Nwali of Baitadi, Pantpali, Goiladi and Naktad of Darchula, Ratipur and Sadevani of Kailali Bagun of Kanchanpur and Bhaunera of Bajura district and DADO IDD/IDSD of Kailali, Kanchanpur Dadeldhura, Baitadi, Darchula and Bajura district and observed agriculture extension activities launching under ICWMP. Also observed the status and performance of standing crops, interacted with WUA members and beneficiary farmers to support training activities on efficient water management, preparation of crop calendar, newer irrigated crop cultivation practices of improve and hybrid varieties, support training activities on income generation, high value cash crops and safe use of pesticides including IPM. During each field visit problem faced by the farmers and WUA were discussed and these feed back comments were discussed with concerning officials of DADO office, for their kind attention and response and suggested to conduct more agriculture extension activities under ICWMP in the command area of subprojects (AF) of Ratipur (Kailali) Bittesal, Jogijal and Dhiktadi of Dadeldhura, Naktad and Goiladi of Darchula, Koteligad of Baitadi, Bhairavnath, Subeda Tallo Jiula and Deura of Bajhang and Bhaunera ISP of Far Western Region.

Meta card survey was also done among the farmers of 10 ISPs in the command area and provide a brief orientation about the purpose and importance of Metacard survey before conducting Metacard survey.

Updating data is a regular and continuous process and was done regularly by the visit and telephone talk with concerning officials of DADO/IDD/IDSD/GW IDD.

3.1 Project Coordination

Members of TA Team Dhangadhi participated in regional monthly coordination meeting held at RID Dhangadhi. During the meeting information obtained from TA team field visit were discussed and review of present status of each sub-projects of the region took-place and find out the issues and its resolving way out.

Table 11 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned stakeholders | Plan | 12 | 1 | 1 | 1 | 1 | 4 | 24 |
| | | Done | 9 | 1 | 1 | 1 | | 3 | 20 |

Project coordination meetings were not conducted according to the plan. It is due to the general election and cannot managed time of stock holders.

3.2 DFSR and SEMP Preparation

For the reappraisal of Kadamandu and Kalaphthresor of Doti district and Bhaunera ISP of Bajura district, RAC meeting was held in the chairmanship of Regional Irrigation Director of FWR at RID Dhangadhi on 2nd January 2018. TA agriculture also participated in the meeting and during discussion commented and gave necessary advise and suggestion about targeted crop yield of crop.

3.3 Agriculture Extension and Development Plans

Activities of site (command area) visits of Subeda Tallow Jiula, Subeda Mallow Jiula, Bhairabhnath and Deura Jewelakhet ISPs of Bajhang is from 24 Dec. 2017 to 30 Dec.2017 Baduwa and Jogijala ISPs of Dadeldhura, Naktad ISP of Darchula, Koteligad ISP of Baitadi Suda (DTW) and Bagun ISPs of Kanchanpur, Ratipur ISP of Kailali from 3rd January 2018 to 12th January 2018, IDD Patan (Baitadi), limuda

and Nwali ISPs of Baitadi, Goiladi and Pantpali ISP of Darchula, Dhiktadi ISP of Dadeldhura from 25th January to 1st February 2018, Sadepani (DTW) ISP of Kailali from 19th to 20th February 2018 and Bhaunera of Bajura on 13 & 14 March 2018 and Koteligad of Baitadi on 15 March 2018. were covered and discussion and interaction were done with WUA members and beneficiary farmers groups which covered a set of activities on efficient water management, awareness on improved and hybrid varieties income generation from high value crops and different aspects of safe use of pesticides including IPM. The progress of 6th trimester altogether has been summarise in table 12.

Table 12 Action Plan Review for Agricultural Extension & Development Plans

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|----|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Field visits to ISPs to interact with farmers and farmers' groups | Plan | 14 | 3 | 3 | 3 | | 9 | 23 |
| | | Done | 18 | 4 | 11 | 1 | 2 | 18 | 36 |
| 4.2 | Support training on efficient water management | Plan | 11 | 1 | 1 | 1 | | 3 | 14 |
| | | Done | 18 | 4 | 11 | 1 | 2 | 18 | 36 |
| 4.3 | Support training on crop calendar planning and cultivation of hybrid and improved varieties | Plan | 11 | 1 | 1 | 1 | | 3 | 14 |
| | | Done | 20 | 4 | 11 | 1 | 2 | 18 | 38 |
| 4.4 | Support training on income generation, high value crops & safe use of pesticides | Plan | 10 | 1 | 1 | 1 | | 3 | 13 |
| | | Done | 20 | 4 | 11 | 1 | 2 | 18 | 38 |

The activities conducted during 6th trimester period is presented in table 12. It's shows that all activities were accomplished more than that of plan in action plan.

3.4 Monitoring and Evaluation

The TA Team agriculture visited DADO/IDD/IDSD/GW IDD offices of Kailali, Kanchanpur, Baitadi Dadeldhura, Darchula and Bajhang and Bajura district during 6th trimester period to collect agriculture data to enter into the data format book and updated agriculture information and data. Data collection was done in 19 subprojects of Far Western Region through DADO/IDD/IDSD/GWIDD. The ISPs are Subda Tallow Jiula, Subeda Mallo Jiula, Bhairabhnath and Deura Jwalikhet of Bajhang, Naktad and Goiladi of Darchula Nwali, Manekuda, Ilumuda and Koteligad of Baitadi district, Baduwa, Diktadi, Bhattesal and Jogijala of Dadeldhura, Bagun and Suda of Kanchanpur and Sadepani (DTW) and Ratipur of Kailali Dhanraskhet of Doti District.

Verification of crop yield data obtained from interaction and interview with WUA members and famers group with the data provided by DADO, was done in 6 ISPs (Limuda, Nwali of Baitadi, Baduwa and Jogijala of Dadeldhura, Goiladi of Darchula and Subeda Tallo Jiula of Bajhang) of FWR. It was found that the yield data provided by farmers group of paddy, wheat and Maize was higher than yield data obtained by DADO by 9%, 7.5% and 6% respectively and yield of potato and vegetable was lower by 9% and 7% respectively in comparison with DADO yield in the same ISPs.

To Varity agriculture development procedure of component D implemented by DADO in Koteligad ISP of Baitadi visited on 15th March 2018 to the command area of Koteligad ISP and interaction was done with WUA members and farmers group and it was found that during 6th trimester period different agriculture extension activities (Demonstration 5, Training 2, Plastic Tunnel 2 and income generation 1) was conducted by DADO Baitadi under ICWMP , component D in the command area of Koteligad ISP.

Interaction was done with WUA members and beneficiary groups of 4 ISPs (Goiladi of Darchula, Limuda of Baitadi, Sadepani of kailali and Subeta Tallo Jiula of Bajhang) of FWR about WUA adherence to seasonal planning. It was found that during 6th trimester period not a single seasonal planning activity was conducted in any ISPs of FWR.

Assessed district and IWRMP productivity during FY. 2017/018 in 7 district of Far Western Region (Dadeldhura, Baitadi, Doti, Bajhang, Darchula, Kailali and Kanchanpur). It was found that IWRMP productivity increase by 19% in paddy, 53% in wheat, 24% in maize 30% in potato and 21% in vegetable table 9 and table10.

The monitoring and evaluation activities conducted during 6th trimester period are summarized in table 13 below.

Table 13 Action Plan Review for Monitoring and Evaluation

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|----|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.1 | Update agriculture information and M&E data from IDD/IDSD/GWIDD/DADOs | Plan | 24 | 13 | | | | 13 | 37 |
| | | Done | 23 | 4 | 12 | 1 | 2 | 19 | 42 |
| 5.2 | Verify M&E data from sample subprojects | Plan | 6 | | | | 2 | 2 | 8 |
| | | Done | 2 | 1 | 2 | | 2 | 5 | 7 |
| 5.3 | Verify agric development procedure of Compt D, implemented by DADO on sample ISPs | Plan | 2 | 1 | | | | 1 | 3 |
| | | Done | 2 | | | | 1 | 1 | 3 |
| 5.4 | Document WUA adherence to seasonal planning | Plan | 2 | 1 | | | | 1 | 3 |
| | | Done | 1 | | | | | | 1 |
| 5.5 | Assess district and IWRMP ISP productivity | Plan | 6 | | | | 2 | 2 | 8 |
| | | Done | 2 | 3 | 4 | | | 7 | 9 |

Seasonal planning activities were not conducted during 6th trimester period by any DADO of FWR due to the lack of budget and program.

4 KEY ISSUES

There has been a new paradigm shift in local governance system and empowerment of municipalities. Most of the agriculture staff from DADO office were transferred to these municipalities. In DADO office very few (limited) staff are working and they are not able to conduct ICWMP activities and updated data in the district.

DADO has the authority to distribute agriculture extension activities/ programs within the district ISPs. ICWMP (component D) sends lump sum budget and programs in the district. This budget is not sufficient to conduct the extension activities in all ISPs of the district.

Maintain of data regarding agriculture extension activities, crop productivity, area under crops, cost benefit, cropping intensity in DADO office is very poor. However effort on data collection through DADO, IDD/IDSD offices will be continued as usual by special request to them regularly by office visit and telephone talk.

Some of WUA Chairman are proactive to contact DADO office in the contact of asking for extension program and budget under ICWMP in the sub project area.

There is need of improvement in mutual coordination between DADO, IDD/IDSD and WUA and famers group.

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

WESTERN REGION
TMS TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

March 30, 2018

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1 PROJECT IMPLEMENTATION

1.1 WUA Institutional and Capacity Development

Table 1 IDF Progress to Date on Selected Schemes

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|-------------------|-----------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Mustang | Syang | Completed | 73 | 25 | 71 |
| Mustang | Jhong Putak | Completed | 82 | 50 | 57 |
| Manang | Tilche | Completed | 64 | 50 | 29 |
| Lamjung | Bangrebeshi | Completed | 73 | 50 | 29 |
| Lamjung | Kesidi Lamabagar | Completed | 82 | 67 | 43 |
| Gorkha | Pokharatar | On going | 82 | 50 | 43 |
| Gorkha | Bakrang Besi | On going | 73 | 8 | 14 |
| Tanahun | Bilmade Mulpani Patne | Completed | 100 | 75 | 57 |
| Tanahun | Bhanu Barah Bandh | Completed | 100 | 92 | 57 |
| Kaski | Dhiprangbesi | On going | 73 | 8 | 0 |
| Kaski | Kotre Kafaltar | Completed | 100 | 58 | 29 |
| Kaski | Tallo Dabake | Completed | 82 | 33 | 14 |
| Parbat | Aguwa khola | Completed | 73 | 33 | 43 |
| Parbat | Sibdi Chiluwa | Completed | 82 | 33 | 43 |
| Parbat | Gyandi | On going | 82 | 58 | 43 |
| Parbat | Rati khola | On going | 82 | 67 | 43 |
| Myagdi | 2023 Sale kulo | Completed | 82 | 58 | 57 |
| Baglung | Chhisti | Completed | 73 | 50 | 43 |
| Baglung | Tallo Lamahi Phant | Completed | 73 | 50 | 43 |
| Syangja, Palpa | Aandhi khola (AKWUA) | Completed | 73 | 50 | 43 |
| Syangja | Kamtitar | Completed | 55 | 8 | 29 |
| Palpa | Itiya khola | Completed | 73 | 42 | 43 |
| Palpa | Sardewa | Completed | 73 | 25 | 29 |
| Palpa | Serakhet | Completed | 73 | 25 | 29 |
| Palpa | Gairapanari Binapate | Completed | 73 | 42 | 29 |
| Gulmi | Waorgati Sanichaur | Completed | 91 | 50 | 43 |
| Gulmi | Jherdi khola | Completed | 100 | 67 | 57 |
| Gulmi | Damkaphant Sota | Completed | 100 | 67 | 43 |
| Gulmi | Rumta Aambot | On going | 100 | 50 | 43 |
| Arghakhanchi | Damaidhunga | Completed | 82 | 50 | 29 |
| Arghakhanchi | Kopche Damare | Completed | 91 | 50 | 43 |
| Nawalparasi | Tokare | Completed | 82 | 58 | 43 |
| Nawalparasi | Bhedabari | Completed | 64 | 42 | 43 |
| Nawalparasi | Bhorlebas | Completed | 73 | 25 | 57 |
| Kapilvastu | Madwan Sikari | Completed | 73 | 17 | 14 |
| Kapilvastu | Bharai khola | Completed | 73 | 33 | 29 |
| Rupandehi | Itiyakulo | On going | 82 | 58 | 43 |
| Rupandehi | Jhimjhime | On going | 73 | 50 | 14 |
| Kapilvastu | Valwad DTW | Completed | 100 | 67 | 57 |

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|-------------|--------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Rupandehi | BLGWP-A | Completed | 100 | 67 | 57 |
| Rupandehi | BLGWP-B | Completed | 91 | 67 | 71 |
| Nawalparasi | Petbaniya DTW-New | On going | 64 | 17 | 14 |

Table 1 shows the detail IDF progress activities of total 42 ISPs. Out of them, 8 WUAs have completed 100%, 14 WUAs have completed more than 75% and 20 WUAs have completed 50% of IDF activities of phase I (indicators). Likewise, 36 WUAs have 50% completed and 16 WUAs have less than 50% completed of IDF activities of phase II (indicators). Regarding phase III (indicators) of IDF activities progress is poor than phase I&II. Only 11 WUAs have completed 50% and remaining 31 WUAs have completed less than 50% IDF activities.

According to above progress, some WUAs are not fulfilling the following activities in their ISPs:

- WUA office establish with signboard
- Financial Audit
- General Assembly Public Audit
- Renew of WUA
- Formulation of WUA rules, regulation and guidelines including canal operation.
- Fund raising/ISF collection
- Arrangement of Dhalpa/Chaukidar/Heralu
- Issue of Grievances
- Grievance management

In terms of institutional development of WUAs, they have received various type of capacity development and skill development trainings but the Table No. 1 shows that they need more backstopping for WUA strengthening. According to the WUA the trainings could not delivered qualitative and in appropriate time frame i.e the pre-construction and quality control training had been delivered after completion of phase second (construction phase) in more ISPs. It is also found that many of factors disturbed the training annul schedules like political instability, lack of staffs in IDD, delay in budget releasing, lengthy process and procedures etc. It is absorbed that WAU members and farmers are gave more attention to the training allowances not to the training subjects and its importance. Leadership development and good governance training, administrative and account management training, irrigated cropping system should be provide to WUAs may strengthen the WUA institution.

Table 2 WUA Training Completed to Date

| | Events (No) | Participants | | | Ethnicity | |
|-------------------------------------|----------------|--------------|--------|-------|-----------|-------|
| | | Male | Female | Total | Janajati | Dalit |
| To end of 5 th Trimester | 101 | 1,571 | 998 | 2,569 | 746 | 130 |
| 6 th Trimester | | | | | | |
| Mountain | 0 | 0 | 0 | 0 | 0 | 0 |
| Hill | 16 | 195 | 111 | 306 | 95 | 33 |
| Terai Surface | 5 | 43 | 22 | 65 | 11 | 3 |
| Terai GW | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotal | 21 | 238 | 133 | 371 | 106 | 36 |
| Total to Date (No) | 122 | 1,809 | 1,131 | 2,940 | 852 | 166 |
| (%) | | 62% | 38% | | 29% | 6% |

Up to end of 6th trimester, 122 training events were conducted. During this trimester 21 training events were conducted. The above trainings were conducted by IDD/IDSDs/GWIDD. They conducted capacity development of WUA, pre-construction training, management, institutional development, agriculture etc. As per interaction with WUAs, it was found that most of WUAs members have lack of knowledge and skill of institutional development (IDF), capacity building, operational maintenance of system, ISF collection.

1.2 Gender and Vulnerable Community Development Action Plan

Bhorlebas Irrigation Sub-Project (Terai surface) of Nawalparasi district was selected as a pilot sub-project for implementation of gender and vulnerable community development program in Western Region. A WUA meeting was conducted in this pilot SP on 9 June, 2017 among the water users, WUA, officials from DADO, IDD and TA team regarding to this GVCDA program. It was decided to priority for Bee keeping follow by Mushroom cultivation and Goat keeping programs.

1.3 Work Programme until End of Project

As per TA team field visit and discussion with WUAs and IDD/IDSD for remaining IDF activities in all ISPs, they committed that following activities will be completed up to 30 June 2018.

Table 3 Planned IDF Activities 16 March to 30 June 2018

| District | Name of Subproject | Status | No of Programmed IDF Activities | | |
|----------------|-----------------------|-----------|---------------------------------|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Mustang | Syang | Completed | 1 | 3 | 2 |
| Mustang | Jhong Putak | Completed | 0 | 3 | 2 |
| Manang | Tilche | Completed | 1 | 2 | 2 |
| Lamjung | Bangrebeshi | Completed | 1 | 3 | 1 |
| Lamjung | Kesidi Lamabagar | Completed | 0 | 2 | 2 |
| Gorkha | Pokharatar | On going | 0 | 2 | 2 |
| Gorkha | Bakrang Besi | On going | 1 | 3 | 2 |
| Tanahun | Bilmade Mulpani Patne | Completed | 0 | 3 | 3 |
| Tanahun | Bhanu Barah Bandh | Completed | 0 | 1 | 3 |
| Kaski | Dhiprangbesi | On going | 1 | 4 | 2 |
| Kaski | Kotre Kafaltar | Completed | 0 | 2 | 2 |
| Kaski | Tallo Dabake | Completed | 0 | 2 | 2 |
| Parbat | Aguwa khola | Completed | 1 | 3 | 1 |
| Parbat | Sibdi Chiluwa | Completed | 0 | 3 | 1 |
| Parbat | Gyandi | On going | 0 | 2 | 1 |
| Parbat | Rati khola | On going | 0 | 1 | 1 |
| Myagdi | 2023 Sale kulo | Completed | 0 | 2 | 2 |
| Baglung | Chhisti | Completed | 2 | 2 | 2 |
| Baglung | Tallo Lamahi Phant | Completed | 2 | 3 | 2 |
| Syangja, Palpa | Aandhi khola (AKWUA) | Completed | 1 | 2 | 1 |
| Syangja | Kamtitar | Completed | 2 | 3 | 2 |
| Palpa | Itiya khola | Completed | 1 | 3 | 2 |
| Palpa | Sardewa | Completed | 1 | 3 | 3 |
| Palpa | Serakhet | Completed | 1 | 3 | 3 |
| Palpa | Gairapanari Binapate | Completed | 1 | 3 | 3 |
| Gulmi | Waorgati Sanichaur | Completed | 1 | 2 | 2 |
| Gulmi | Jherdi khola | Completed | 0 | 2 | 2 |
| Gulmi | Damkaphant Sota | Completed | 0 | 1 | 2 |

| District | Name of Subproject | Status | No of Programmed IDF Activities | | |
|--------------|--------------------|-----------|---------------------------------|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Gulmi | Rumta Aambot | On going | 0 | 2 | 2 |
| Arghakhanchi | Damaidhunga | Completed | 0 | 2 | 2 |
| Arghakhanchi | Kopche Damare | Completed | 0 | 3 | 2 |
| Nawalparasi | Tokare | Completed | 1 | 2 | 1 |
| Nawalparasi | Bhedabari | Completed | 1 | 2 | 2 |
| Nawalparasi | Bhorlebas | Completed | 1 | 3 | 2 |
| Kapilvastu | Madwan Sikari | Completed | 1 | 3 | 2 |
| Kapilvastu | Bharai khola | Completed | 1 | 3 | 2 |
| Rupandehi | Itiyakulo | On going | 0 | 1 | 2 |
| Rupandehi | Jhimjhime | On going | 0 | 2 | 2 |
| Kapilvastu | Valwad DTW | Completed | 0 | 1 | 0 |
| Rupandehi | BLGWP-A | Completed | 0 | 1 | 0 |
| Rupandehi | BLGWP-B | Completed | 1 | 1 | 1 |
| Nawalparasi | Petbaniya DTW | On going | 1 | 2 | 2 |

Institutional Development part was found poor of above ISPs. At least one day 3 days residential training on capacity building of WUAs, leadership development, good governance, ISF fund raising, resource mobilization, operational and maintenance of system and account book keeping for long term sustainability of system and strengthen of WUAs. It is also required to regular follows by IDD/IDSD/IGWIDD for sustainability of system.

2 PROJECT SAFEGUARDS

2.1 Social and Environmental Management

2.1.1 Preparation of Subproject SEMP

Currently there are 29 completed subprojects in the region. SEMP reports, of 13 subprojects that were added later on, were thoroughly examined for their completeness as per the guidelines. Individual comments were made available to concerned IDD / GWIDDs for necessary improvements in SEMP reports. All of the improved SEMP reports are yet to come in OPD to update the database.

2.1.2 Rates of Compliance

The following table 4, 5 and 6 shows compliance and noncompliance of both completed ISPs and ongoing ISPs in the west region. The data is based on 42 subprojects. Table 4 shows that 215 issues are found and total 345 numbers of mitigation measures where 88% is compliant and 12% is not compliant.

Rates of compliance improved significantly over the reporting period for both completed and not completed subprojects. Three factors have contributed to this improvement:

- correction of earlier under-reporting by Western Region DoI field offices after face-to-face consultations with the TA Team's environmental specialist at the Pokhara regional workshop;
- Removal of ambiguities and non-relevant items from SEMP; and,
- ongoing work on SEMP activities through the reporting period.

Table 4 SEMP Implementation on Completed ISPs as of 15 March 2018

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|-------------------|-----------|--------------|--------------|---------------------------|------------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain | 2 | 3 | 19 | 25 | 21 | 4 |
| Hill | 10 | 22 | 177 | 294 | 267 | 27 |
| Terai (Surface) | 2 | 3 | 11 | 11 | 11 | 0 |
| Terai (GW) | 2 | 2 | 8 | 15 | 6 | 9 |
| Total (No) | 16 | 29 | 215 | 345 | 305 | 40 |
| (%) | | | | | 88% | 12% |

Table 5 shows that on completed ISPs up to 30 June 2018 are 10 where 57 Issues are found. Total 98 mitigation measures where 35% are compliant and 65% are not compliant.

Table 5 SEMP Implementation on Completed ISPs as of 30 June 2018 (Projection)

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|-------------------|-----------|--------------|--------------|---------------------------|------------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain | 0 | 0 | 0 | 0 | 0 | 0 |
| Hill | 3 | 6 | 37 | 68 | 30 | 38 |
| Terai (Surface) | 2 | 3 | 20 | 30 | 4 | 26 |
| Terai (GW) | 1 | 1 | | | | |
| Total (No) | 6 | 10 | 57 | 98 | 34 | 64 |
| (%) | | | | | 35% | 65% |

Table 6 shows that total 3 ISPs Rumta Aamboat of Gulmi district, Jhimjhime and Petbaniya of Rupandehi are not completed up to 30 June 2018.

Table 6 SEMP Implementation on ISPs Not Completed by 30 June 2018 (Projection)

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|-------------------|-----------|--------------|--------------|---------------------------|------------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain | 0 | 0 | 0 | 0 | 0 | 0 |
| Hill | 1 | 1 | 7 | 17 | 3 | 14 |
| Terai (Surface) | 1 | 1 | 4 | 4 | 4 | 0 |
| Terai (GW) | 1 | 1 | 3 | 5 | 0 | 5 |
| Total (No) | 3 | 3 | 14 | 26 | 7 | 19 |
| (%) | | | | | 27% | 73% |

Table 6 shows that 3 ISPs are not completed up to 30th June 2018.

2.1.3 Areas of Non-compliance

IDDs/IDSDs/GWIDDs are responsible for implementing subprojects. However, this is often hindered by:

- Lack of logistical support to spend sufficient time on site
- Lack of skilled staff
- Late implementation of ISPs
- Lack of knowledge about and motivation towards SEMP
- Priority being given to main construction contracts (which SEMP activities have been separated from)

Also, a common problem faced in hill subprojects is that there is often insufficient space along canal alignments for plantations.

2.2 Gender and Vulnerable Communities

A Gender and Vulnerable Community Development Action Plan has been drafted (December, 2016). It was also discussed with WB/OPD in a meeting at OPD and suggested to incorporate minutes of WUA meeting in the action plan and updated (July, 2017).

Bhorlebas sub-project (Terai surface) of Nawalparasi district was selected on May, 2017 and it was discussed among the water users, WUA, officials from DADO, IDD and TA team for further program implementation under Gender and Vulnerable Communities Development Action Plan on 09 June, 2017. It was decided to priority for Bee keeping follow by Mushroom cultivation and Goat keeping programs by this mass meeting.

It was also explained in the regional workshop in each region to response gender and vulnerable community (female, dalit, janajati and other ethnic groups within the command area of the SP) during SP selection and implementation. Involve them in all activities of SP including WUA executive committee, trainings, exposure visit etc. As well as environmental safeguard and SEMP preparation was also explained in the regional workshop.

Formation of gender and vulnerable community group among the command area water users in the coordination of WUA (Female ro Janajati or Dalit) member and allocated amount for that program will be

send to IDD for further program implementation in the close coordination with DADO, TA and WUA is expected to happen next under GVCDP.

IDD Nawalparasi has managed training program and seed distribution to farmer of Bhorlebas ISP. According to IDD Nawalparasi, one no of training program on vegetable farming was conducted for 25 farmers where 15 male and 10 female. IDD Nawalparasi has distributed vegetable seeds such as potato, tomato, bean, cabbage and chilli.

Table 7 Demography of AF Subprojects

| Ecological Belt | ISP (Nos) | HH (No) | Population | | | | |
|-----------------|-----------|---------|------------|--------|--------|----------|-------|
| | | | Total | Male | Female | Janajati | Dalit |
| Mountain | 3 | 235 | 1,328 | 611 | 717 | 1,276 | 46 |
| Hills | 28 | 4703 | 30332 | 14571 | 15761 | 4006 | 1708 |
| Terai (Surface) | 7 | 11,727 | 58,398 | 28,345 | 30,053 | 11,606 | 2,548 |
| Terai (GW) | 4 | 5,616 | 31,037 | 15,170 | 15,867 | 10,308 | 3,894 |
| Total (No) | 42 | 22281 | 121095 | 58697 | 62398 | 27196 | 8196 |
| Total (%) | | | | 48% | 52% | 22% | 7% |

Out of 42 ISPs, 22,281 households and 121,095 population are benefited from IWRMP where 48 percent male, 52 percent female, 22% Janajati and 7% Dalit population included.

Table 8 Levels of Representation in WUA Executive Committees

| Ecological Belt | No of ISPs | WUA Representatives | | | | |
|-----------------|------------|---------------------|------|--------|----------|-------|
| | | Total | Male | Female | Janajati | Dalit |
| Mountain | 3 | 25 | 16 | 9 | 22 | 3 |
| Hills | 28 | 307 | 209 | 98 | 78 | 25 |
| Terai (Surface) | 7 | 88 | 65 | 23 | 22 | 4 |
| Terai (GW) | 4 | 48 | 35 | 13 | 6 | 2 |
| Total (No) | 42 | 468 | 325 | 143 | 128 | 34 |
| Total (%) | | | 69% | 31% | 27% | 7% |

This is the WUA representatives' records of all 42 sub-projects although data of WUA representatives is still being updated. It was also suggested WUAs and IDDs/IDSDs/GWIDDs during our field visit and meeting with them to involved minimum 33% representation of female in WUA and also convinced them to make the WUA inclusive representation of all ethnic groups exist within the command area of the sub-project as instructed by the "revised Irrigation Regulation 2060 BS" and "Irrigation Policy, 2070 BS".

Table 8 shows that the composition of WUA-Executive members in different ISPs is 69% male and 31% female along with 27% Janajati and 7% Dalit regimes.

2.3 Land Acquisition and Resettlement

Table 9 Land Acquisition/Donation Documents Received

| Ecological Belt | No of SPs | No of WUAs to have Supplied Documents | | |
|-----------------|-----------|---------------------------------------|----------------|-------|
| | | Previous | This Trimester | Total |
| Mountain | 3 | 3 | 0 | 3 |
| Hills | 28 | 25 | 0 | 25 |
| Terai (Surface) | 7 | 7 | 0 | 7 |
| Terai (GW) | 4 | 3 | 0 | 3 |
| Total | 42 | 38 | 0 | 38 |

There are no land issues during sub-project implementation. Land donation document of 38 ISPs were collected out of 42 ISPs. Remaining of 4 ISPs are not supplied documents by WUA, These are Chisti and Tallo Lamahi Phant of Baglung District, Kamitar ISP of Shyangja District and BLGWP (B) rehab (DTW-15 nos.) of Rupandehi District. TA team has been following and frequently contact to WUAs and IDD for aforesaid documents. TA team made a plan remaining land donation document will be collected within 30 May 2018.

3 TA TEAM TRAINING AND SOCIAL ACTIVITIES

3.1 Project Coordination

Monthly regional meeting with Regional Irrigation Directorate were regularly attended. The regional TA Team had a total of 4 meetings to share and discuss about the field activities of different ISPs. Table 10 shows number of monthly meetings during 6th trimester.

Table 10 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned Stakeholders | Plan | 4 | 1 | 1 | 1 | 0 | 3 | 7 |
| | | Done | 3 | 1 | 1 | 1 | 1 | 4 | 7 |
| 2.3 | Meeting with IDD/IDSDs/GWIDDs | Plan | 5 | 1 | 2 | 1 | 2 | 6 | 11 |
| | | Done | 4 | 1 | 3 | 2 | 2 | 8 | 12 |

A total of 8 coordination meetings with IDD/IDSDs/GWIDDs were conducted during 6th trimester.

3.2 Subproject Preparation

3.3 DoI Capacity Development

The target of one events of regional workshop has been achieved by participating and providing facilitation support in workshop during trimester 5th. But targeted one event of training for AOs during this reporting period is not conducted. Central Department of Irrigation has not organized of Project orientation/refresher trainings to field staff (AOs etc.)

Table 11 Action Plan Review for DoI Capacity Development

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Assist the DOI in conducting Regional Workshops | Plan | 0 | 1 | | | | 1 | 1 |
| | | Done | 0 | 1 | | | | 1 | 1 |
| 4.2 | Project orientation/refresher trainings to field staff (AOs etc.) | Plan | 0 | | 1 | | | 1 | 1 |
| | | Done | 0 | | | | | 0 | 0 |

3.4 WUA Institutional and Capacity Development

TA team has visited and monitored 10 ISPs during 6th Trimester. As per the interaction with WUA members and beneficiaries, observed the documentation of WUA, Itiya Khola, Jhimjhime, Damaidhunga and Kopchedamare WUAs were legally resisted in Irrigation District Division and Dhiprang Besi, Pokharetar, Bakrang Besi and Kamtitar ISPs were registered in District Water Resource Committee in separate district. Among them Kopchedamare ISP of Arghakhachi district is more better management and bold leadership in WUA then compared to other 9 ISPs. But WUA institutional part is very weak in almost all ISPs. WUA-EC of Kopchedamare ISP was active and the operational and maintenance of this ISP was appreciable.

During Monitoring field visit, TA team suggested them for regular renewed and regular carried out financial audit of WUA and also establish WUA office with signboard. It was also suggested to them for regular collection of ISF and arrangement of Watchmen (Heralos) for regular operational and maintenance of system.

TA team advised them for good account keeping, store book, income and expenditure book keeping, prepare and distribute membership card, establish and management of Grievance register, meeting minute and visitors book.

Table 12 Action Plan Review for WUA Institutional and Capacity Development

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.1 | Observing and monitoring the WUA activities as of IDF | Plan | 5 | 3 | 3 | 3 | 0 | 9 | 14 |
| | | Done | 13 | 4 | 3 | 3 | 0 | 10 | 23 |
| 5.2 | Visit ISPs with IDD/IDSD/GBD staff and discuss any problems and solutions with farmers. | Plan | 5 | 3 | 3 | 3 | 0 | 9 | 14 |
| | | Done | 13 | 4 | 3 | 3 | 0 | 10 | 23 |
| 5.3 | Assist and advise the DOI staff in conduct 4 in built trainings in each SPs | Plan | 5 | 3 | 3 | 3 | 0 | 9 | 14 |
| | | Done | 13 | 4 | 3 | 3 | 0 | 10 | 23 |
| 5.4 | Conducting in-country exposure visit and tour to WUAs in pilot subprojects | Plan | 0 | 1 | 1 | 1 | | 3 | 3 |
| | | Done | 0 | | | | | 0 | 0 |

Table 12 shows that above activities were carried out more than originally plan in the 6th trimester. The reasons are:

- The progress of field visit of trimester 5th is 13 ISPs out of 5 planed. Out of them only 4 ISPs were visited by me and remaining 9 ISPs were covered by central TA team sociologist before I joint WR office Pokhara.
- But, during my tenure (up to 6th trimester) 10 ISPs out of 9 planed were visited for feedback interaction and monitoring WUAs along with Regional TA –team with approved travel order from central TA team/OPD.
- These field visits helped to collect required updates in data book and to provide management vision in those ISPs including PCRs preparation of visited ISPs.
- But, for sure, no personal visit programs in ISPs were dared to travel out of track.

3.5 Safeguards

There are 42 sub-projects in Western region, out of them voluntary land documents as a minute of the WUA are collected from 38 sub-projects, collecting such documents from remaining 4 SPs are in process for further collection.

Bhorlebas Irrigation Sub-Project (Terai surface) of Nawalparasi district was selected as a pilot sub-project for implementation of gender and vulnerable community development program IDD Nawalparasi has managed training program and seed distribution to farmer of Bhorlebas ISP. According to IDD Nawalparasi, one no of training program on vegetable farming was conducted for 25 farmers where 15 male and 10 female. IDD Nawalparasi has distributed vegetable seeds such as potato, tomato, bean, cabbage and chilli.

Table 13 Action Plan Review for Safeguards

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 6.1 | Compiled land donation records of WUAs | Plan | | | | | | | 0 |
| | | Done | 6 | | | | | | 6 |
| 6.2 | Prepare draft Gender and Vulnerable Community Development (GVCD) Action Plan | Plan | | | | | | | |
| | | Done | | | | | | | |
| 6.3 | GVCD Action Plan implemented on pilot basis | Plan | | 1 | | | | 1 | 1 |
| | | Done | | | 1 | | | 1 | 1 |

There are no land issues during sub-project implementation. Although it is collecting land acquisition/donation document through WUA minute during field visit in the sub-projects and through IDDs/IDSDs/GWIDDs.

4 KEY ISSUES

As per the interaction with key persons of IDD, WUA members and beneficiaries, observed the documentation of WUA of the above ISP, All WUA was legally resisted in Irrigation District Division. The following key issues are found:

- WUA should be regular renewed and carried out financial audit.
- WUA office should be established and also kept signboard in all ISPs.
- The ISF should be started to collect for operational and maintenance of system in all ISPs and also should be managed Chaukidar/Heralu.
- The account keeping, store book, income and expenditure book keeping should be improved in future.
- It should be prepared and distributed membership card.
- Grievance register should be established and managed.
- Meeting minute and visitor book should be regularised and maintained.
- WUA meeting should be held regularize,

TA team analyze that most WUAs were very weak in institutional development part, which will effect in sustainable of sub-projects.

TA team has advised to WUA meeting was held at least once in a month. TA team also advised to them for regular renew and financial audit of WUA, WUA office establish, regular ISF collection and keep heralu/chaukidar in each ISP.

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

MID WESTERN REGION
TMS TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

March 31, 2018

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1 PROJECT IMPLEMENTATION

1.1 WUA Institutional and Capacity Development

Table 1 IDF Progress to Date on Selected Schemes

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|---------------------|---------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Mountain: | | | | | |
| Jumla | GiriKhola | On going | 73 | 50 | 57 |
| Humla | Maspatal | Completed | 91 | 67 | 29 |
| Humla | GangruPinathang | On going | 82 | 67 | 29 |
| Humla | SarkeGad | On going | 91 | 67 | 43 |
| Mugu | LibruKhola | On going | 91 | 75 | 43 |
| Jumla | Laudisim | On going | 91 | 67 | 58 |
| Dolpa | KharPula | On going | 91 | 67 | 29 |
| Hill: | | | | | |
| Surkhet | Jharkhet | Completed | 100 | 75 | 71 |
| Dailekh | KhariGairaTaraChaur | On going | 82 | 75 | 43 |
| Surkhet | GamKholaKholtepani | Completed | 100 | 83 | 86 |
| Surkhet | MalaRaniSahare | On going | 91 | 83 | 71 |
| Surkhet | MathilloBahuniChaur | Completed | 100 | 75 | 71 |
| Salyan | DarimJyula | Completed | 73 | 67 | 71 |
| Salyan | TatkeKulo | On going | 91 | 75 | 57 |
| Rukum | ChhipraKhola | On going | 82 | 67 | 57 |
| Rukum | Sakure | Completed | 82 | 67 | 71 |
| Rukum | ChaukeTakuri | Completed | 82 | 75 | 57 |
| Jajarkot | SaniChaur | Completed | 82 | 75 | 43 |
| Jajarkot | ChaukhaRauliJyula | Completed | 73 | 67 | 58 |
| Rolpa | Oat | Completed | 82 | 75 | 58 |
| Rolpa | ManGhat | Completed | 82 | 75 | 58 |
| Pyuthan | GhariKulo | Completed | 73 | 67 | 58 |
| Pyuthan | GartumKhola | Completed | 100 | 75 | 58 |
| Pyuthan | PidalnePhant | On going | 82 | 75 | 43 |
| Pyuthan | LamaShera | On going | 82 | 75 | 58 |
| Terai(Surf ace): | | | | | |
| Dang | BahunDanda | On going | 91 | 75 | 71 |
| Dang | LohaDabre | Completed | 91 | 83 | 71 |
| Dang | BabarPur | On going | 91 | 83 | 43 |
| Dang | RatGainya | Completed | 91 | 67 | 71 |
| Banke | Thure | Completed | 100 | 83 | 71 |

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|--------------------|--------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Banke | Paruwa | Completed | 91 | 83 | 71 |
| Bardiya | AmbasaBalanti | Completed | 91 | 83 | 71 |
| Bardiya | BatuleKurule | Completed | 100 | 75 | 71 |
| Terai (GW): | | | | | |
| Dang | Dhanauri | On going | 82 | 67 | 38 |
| Dang | Bela | Completed | 82 | 75 | 50 |
| Banke | RadhaPurSitaPur | Completed | 73 | 75 | 63 |
| Bardiya | SanoSri | Completed | 73 | 75 | 63 |
| Bardiya | SanoSriTaraTal | On going | 82 | 75 | 25 |

TMS visited with other TA team members to 32 subprojects in total to date and yet not visited to 6 subprojects (ChaukhaRauliJyula-Jajarkot, KharPula-Dolpa, LibruKhola-Mugu and 3 ISPs of Humla). Current status is that 22 completed to this reporting period and 16 on-going subprojects. It is applied massively contacting to those ISPs by telephone conversation situated in remote areas and counselled much more on programs. TMS has contact telephone list of all WUAs and email addresses of those respective IDD/IDSD/GWIDD and we send format, memo & other documents thru email.

Under 22 completed ISPs in phase one, 6 subprojects completed 100% IDF activities, 5 subprojects completed 91% IDF activities, 6 subprojects completed 82% IDF activities and 5 subproject completed 73% IDF activities. Similarly in phase two, 5 subprojects completed 83% IDF activities, 11 subprojects completed 75% IDF activities and 6 subprojects completed 67% IDF activities. Likewise in phase three, 1 subproject completed 86% IDF activities, 10 subprojects completed 71% IDF activities, 2 subprojects completed 63% IDF activities, 5 subprojects completed 58% IDF activities, 1 subproject completed 57% IDF activities, 1 subproject completed 50% IDF activities, 1 subproject completed 43% IDF activities and 1 subproject completed only 29% IDF activities.

Actually we found is that no any training conducted at ChaukeTakuri subproject of Rukum and felt it is successful the trainings on pre construction, institutional development and agricultural development which have made impressively aware to WUA and users/farmers on project construction, WUA institutional development, cropping pattern, cropping intensity, productivity, water management, repair & maintenance and so on, similarly exposure visits are also seen effective to learn over all irrigation system.

Under 16 ongoing ISPs in phase one, 8 subprojects completed 91% IDF activities, 7 subprojects completed 82% IDF activities and 1 subproject completed 73% IDF activities. Similarly in phase two, 2 subprojects completed 83% IDF activities, 7 subprojects completed 75% IDF activities, 6 subprojects completed 67% IDF activities and 1 subproject completed 50% IDF activities. Likewise in phase three, 2 subprojects completed 71% IDF activities, 2 subprojects completed 58% IDF activities, 3 subprojects completed 57% IDF activities, 5 subprojects completed 43% IDF activities, 1 subproject completed 38% IDF activities, 2 subprojects completed 29% IDF activities and 1 subproject completed only 25% IDF activities.

Here also found that the trainings any are not yet conducted in subprojects Dang Dhanauri/GW, RukumChhiraKhola and Dailekh KhariGaira TaraChaur, therefore the trainings on pre construction, institutional & agricultural development definitely could strengthen the WUA performance.

Table 2 WUA Training Completed to Date

| | Events (No) | Participants | | | Ethnicity | |
|-------------------------------------|----------------|--------------|--------|-------|-----------|-------|
| | | Male | Female | Total | Janajati | Dalit |
| To end of 5 th Trimester | 108 | 1517 | 1283 | 2800 | 803 | 345 |
| 6 th Trimester | | | | | | |
| Mountain | 3 | 56 | 19 | 75 | 0 | 14 |
| Hill | 10 | 151 | 149 | 300 | 3 | 7 |
| Terai Surface | 3 | 32 | 48 | 80 | 13 | 29 |
| Terai GW | | | | | | |
| Subtotal | 16 | 239 | 216 | 455 | 16 | 50 |
| Total to Date (No) | 124 | 1756 | 1499 | 3255 | 819 | 395 |
| (%) | | | 46 | | 25 | 12 |

To date total 124 training events have been conducted here in this region. During this trimester 16 training events have been conducted in this region. And in total 46% female, 25% Janajati and 12% Dalit have been seen here benefitted (out of total participants). Dalit participation is seen here low and therefore our focus is to increase the numbers of Dalit in upcoming training events.

1.2 Gender and Vulnerable Community Development Action Plan

It is already known that GamkholaKholtepani ISP of Surkhet District is selected to implement GVCD action plan as pilot base, plan is prepared already and sub-committee of target group has been also formulated to implement GVCD action plan. Similarly details on budget programming in Mushroom is prepared and forwarded to OPD by IDD and then OPD approved and sent authority on budget expense with five hundred thousand rupees to IDD Surkhet. And training with logistic supports to the beneficiaries 18 (female 12 and Janajati 15) on December 26, 2017 has been already performed on Mushroom by IDD Surkhet, as we TA team observed and found training was effective and all the participants were seen active. Now seen that started Mushroom production and selling to nearer markets (as knew by telephone conversation with WUA Chairperson).

1.3 Work Programme until End of Project

As talked with respective WUAs and IDD/IDSD the picture is as follows on planned IDF activities and the mostly institutional development training is seen needed top priority, without this all the WUAs are seen paralyzed and seen unable to carry out the whole activities of irrigation system on upwards, then repair & maintenance, environment, water management and agriculture development is also important doubtless.

Table 3 Planned IDF Activities 16 March to 30 June 2018

| District | Name of Subproject | Status | No of Programmed IDF Activities | | |
|-----------|--------------------|-----------|---------------------------------|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Mountain: | | | | | |
| Humla | Maspatal | Completed | 1 | 4 | 5 |
| Humla | GangruPinathang | On going | 2 | 4 | 5 |
| Humla | SarkeGad | On going | 1 | 4 | 4 |
| Mugu | LibruKhola | On going | 1 | 3 | 4 |
| Jumla | Laudisim | On going | 1 | 4 | 3 |
| Jumla | GiriKhola | On going | 3 | 6 | 3 |

| District | Name of Subproject | Status | No of Programmed IDF Activities | | |
|-----------------------------|---------------------|-----------|---------------------------------|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Dolpa | KharPula | On going | 1 | 4 | 5 |
| Hill: | | | | | |
| Jajarkot | SaniChaur | Completed | 2 | 3 | 4 |
| Jajarkot | ChaukhaRauliJyula | Completed | 3 | 4 | 3 |
| Dailekh | KhariGairaTaraChaur | On going | 2 | 3 | 4 |
| Rukum | ChhipraKhola | On going | 2 | 4 | 3 |
| Rukum | Sakure | Completed | 2 | 4 | 2 |
| Rukum | ChaukeTakuri | Completed | 2 | 3 | 3 |
| Salyan | DarimJyula | Completed | 3 | 4 | 2 |
| Salyan | TatkeKulo | On going | 1 | 3 | 3 |
| Rolpa | Oat | Completed | 2 | 3 | 3 |
| Rolpa | ManGhat | Completed | 2 | 3 | 3 |
| Pyuthan | GhariKulo | Completed | 3 | 4 | 3 |
| Pyuthan | GartumKhola | Completed | 0 | 3 | 3 |
| Pyuthan | PidalnePhant | On going | 3 | 3 | 4 |
| Pyuthan | LamaShera | On going | 2 | 3 | 4 |
| Surkhet | Jharkhet | Completed | 0 | 3 | 2 |
| Surkhet | GamKholaKholtePani | Completed | 0 | 2 | 1 |
| Surkhet | MalaRaniSahare | On going | 1 | 2 | 2 |
| Surkhet | MathilloBahuniChaur | Completed | 0 | 3 | 2 |
| Terai (Surface): | | | | | |
| Dang | BahunDanda | On going | 1 | 3 | 2 |
| Dang | LohaDabre | Completed | 1 | 2 | 2 |
| Dang | RatGainya | Completed | 1 | 4 | 2 |
| Dang | BabarPur | On going | 1 | 2 | 4 |
| Banke | Thure | Completed | 0 | 2 | 2 |
| Banke | Paruwa | Completed | 1 | 2 | 2 |
| Bardiya | AmbasaBalanti | Completed | 1 | 2 | 2 |
| Bardiya | BatuleKurule | Completed | 0 | 3 | 2 |
| Terai (GW): | | | | | |
| Dang | Bela | Completed | 2 | 3 | 4 |
| Dang | Dhanauri | On going | 2 | 4 | 5 |
| Banke | RadhaPurSitaPur | Completed | 3 | 3 | 3 |
| Bardiya | SanoSri | Completed | 3 | 3 | 3 |
| Bardiya | SanoSriTaraTal | On going | 2 | 3 | 6 |

2 PROJECT SAFEGUARDS

2.1 Social and Environmental Management

2.1.1 Preparation of Subproject SEMP

It has not been prepared any subproject SEMP during this trimester.

2.1.2 Rates of Compliance

Based in table 4, seen total issues are 147 and total mitigation measures are 210, in which 79% mitigation measures have been compliant and rest 21% is expected to accomplish by June 30. Similarly in table 5, 72% mitigation measures have been compliant and rest 28% is expected to accomplish by June 30. Likewise in table 6, 42% mitigation measures have been compliant and rest 58% is seen not compliant.

Table 4 SEMP Implementation on Completed ISPs as of 15 March 2018

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|-------------------|-----------|--------------|--------------|---------------------------|------------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain | 1 | 1 | 1 | 1 | 1 | 0 |
| Hill | 6 | 12 | 62 | 109 | 83 | 26 |
| Terai (Surface) | 3 | 6 | 39 | 44 | 37 | 7 |
| Terai (GW) | 3 | 3 | 45 | 56 | 45 | 11 |
| Total (No) | 13 | 22 | 147 | 210 | 166 | 44 |
| (%) | | | | | 79 | 21 |

Completed ISPs in Mountain Humla (GangruPinathang), in Hill Surkhet (Jharkhet, GamKholaKholtePani&MathilloBahuniChaur), Jajarkot (SaniChaur&ChaukhaRauliJyula), Salyan (DarimJyula), Rukum (Sakure&ChaukeTakuri), Rolpa (ManGhat& Oat) and Pyuthan (GhariKhola&GartumKhola). And similarly in Terai (Surface) Dang (LohaDabre&RatGainya), Banke (Thure&Paruwa) and Bardiya (AmbasaBalanti&BatuleKurule). Likewise in Terai (GW) Dang (Bela), Banke (RadhaPurSitaPur) and Bardiya (SanoSri).

Table 5 SEMP Implementation on Completed ISPs as of 30 June 2018 (Projection)

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|-------------------|-----------|--------------|--------------|---------------------------|------------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain | 4 | 6 | 16 | 21 | 11 | 10 |
| Hill | 6 | 16 | 85 | 143 | 105 | 38 |
| Terai (Surface) | 3 | 8 | 54 | 69 | 51 | 18 |
| Terai (GW) | 3 | 5 | 67 | 78 | 56 | 22 |
| Total (No) | 16 | 35 | 222 | 311 | 223 | 88 |
| (%) | | | | | 72 | 28 |

Total completed ISPs as of 30 June, in Mountain Humla (GangruPinathang, MasPatal & SarkeGad), Mugu (LibruKhola), Jumla (Laudisim) and Dolpa (KharPula). Similarly in Hill Surkhet (Jharkhet, GamKholaKholtePani, MathilloBahuniChaur & MalaRaniSahare), Salyan (DarimJyula & TatkeKulo), Rukum (Sakure&ChaukeTakuri), Rolpa (ManGhat& Oat), and Pyuthan (GhariKhola, GartumKhola PidalnePhant&LamaShera). In Terai (Surface) Dang (LohaDabre, RatGainya, BahunDanda & BabarPur), Banke (Thure&Paruwa) and Bardiya (AmbasaBalanti&BatuleKurule). Likewise in Terai (GW) Dang (Bela & Dhanauri), Banke (RadhaPurSitaPur) and Bardiya (SanoSri & SanoSriTaraTal).

Table 6 SEMP Implementation on ISPs Not Completed by 30 June 2018 (Projection)

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|-------------------|-----------|--------------|--------------|---------------------------|-----------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain | 1 | 1 | 3 | 6 | 1 | 5 |
| Hill | 2 | 2 | 9 | 18 | 9 | 9 |
| Terai (Surface) | | | | | | |
| Terai (GW) | | | | | | |
| Total (No) | 3 | 3 | 12 | 24 | 10 | 14 |
| (%) | | | | | 42 | 58 |

Jumla - GiriKhola, Dailekh - KhariGairaTaraChaur and Rukum - KhhipraKhola ISPs are probably not completed by 30 June 2018 because of Design can be changed of these subprojects.

2.1.3 Areas of Non-compliance

Here are typical examples of these following ongoing subprojects in area of non-compliance are mentioned below, budget is seen allocated in SEMP but not compliant yet because of probably inadequate knowledge, motivation or lack of pro-activeness:

KhariGairaTaraChaur ISP of Dailekh: Training for grass plantation will be carried out along canal alignment in marginal areas on either side (including in land slide/glide areas on right bank of intake/stream). Offseason vegetable farming, organic farming and exposure visit to model agric farms will also be given to Dalits.

Likewise, SanoSri TaraTal/GW ISP of Bardiya: Awareness to the people on proper use of fertilizer & pesticide. Advocacy or training will arrange to the farmers for better use of land and training on grass plantation and fodder storage etc. DADO will conduct training to produce good quality seeds, organic farming and climate change.

2.2 Gender and Vulnerable Communities

Here draws in table 7, the female population covers 51%, Janajati 23% and Dalit 16%. Similarly in table 8 female participation 34%, Janajati 18% and Dalit 12%. In both table female coverage/participation or representation is seen quite ok and high but rather Dalit participation is seen here comparatively low in table 8, only 12% compared to other ethnicity like Janajati shows 18% higher than Dalit and therefore it is been essential to increase the number of Dalit in WUA executive committees.

Table 7 Demography of AF Subprojects

| Ecological Belt | ISP (Nos) | HH (No) | Population | | | | |
|-------------------|-----------|--------------|---------------|---------------|---------------|---------------|---------------|
| | | | Total | Male | Female | Janajati | Dalit |
| Mountain | 7 | 2,454 | 14,934 | 7,374 | 7,560 | 475 | 3,654 |
| Hills | 18 | 2,842 | 18,890 | 9,142 | 9,748 | 4,789 | 2,312 |
| Terai (Surface) | 8 | 2,582 | 18,118 | 8,716 | 9,402 | 6,664 | 1,782 |
| Terai (GW) | 5 | 2,064 | 13,298 | 6,589 | 6,709 | 3,064 | 2,749 |
| Total (No) | 38 | 9,942 | 65,240 | 31,821 | 33,419 | 14,992 | 10,497 |
| Total (%) | | | | 49 | 51 | 23 | 16 |

Table 8 Levels of Representation in WUA Executive Committees

| Ecological Belt | No of ISPs | WUA Representatives | | | | |
|-----------------|------------|---------------------|------|--------|----------|-------|
| | | Total | Male | Female | Janajati | Dalit |
| Mountain | 7 | 76 | 45 | 31 | 0 | 12 |
| Hills | 18 | 199 | 131 | 68 | 29 | 26 |
| Terai (Surface) | 8 | 102 | 70 | 32 | 36 | 7 |
| Terai (GW) | 5 | 47 | 34 | 13 | 11 | 6 |
| Total (No) | 38 | 424 | 280 | 144 | 76 | 51 |
| Total (%) | | | 66 | 34 | 18 | 12 |

2.3 Land Acquisition and Resettlement

No any relocation or resettlement and land acquisition case are found there in any subprojects, similarly no any conflict and then smooth construction on head works, main canal and distribution lines in all subprojects have been performing well.

Table 9 Land Acquisition/Donation Documents Received

| Ecological Belt | No of SPs | No of WUAs to have Supplied Documents | | |
|-----------------|-----------|---------------------------------------|----------------|-------|
| | | Previous | This Trimester | Total |
| Mountain | 7 | 7 | 0 | 7 |
| Hills | 18 | 15 | 3 | 18 |
| Terai (Surface) | 8 | 8 | 0 | 8 |
| Terai (GW) | 5 | 3 | 2 | 5 |
| Total | 38 | 33 | 5 | 38 |

The land acquisition documents of 38 ISPs to date are collected.

3 TA TEAM TRAINING AND SOCIAL ACTIVITIES

3.1 Project Coordination

Previously meetings with RID team, Regional Directorate of Agriculture and DADO office were attempted 17 (15 with RID, 2 with RDA/DADO) and during this trimester 3 meetings and in total to this 6Tr 20 meetings have been conducted, in meeting agendas were discussed on progress review, issues and problem solving measures, coordination meeting has been arranged at least one in a month, all the regional stakeholders are supportive and quite friendly. Actually total 7 meetings have been arranged in this fiscal year to this reporting period.

Table 10 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned Stakeholders | Plan | 4 | 1 | 1 | 1 | 0 | 3 | 7 |
| | | Done | 4 | 1 | 1 | 1 | 0 | 3 | 7 |
| 2.3 | Meeting with IDD/IDSDs/GWIDDs | Plan | 5 | 1 | 2 | 1 | 2 | 6 | 11 |
| | | Done | 9 | 6 | 0 | 3 | 3 | 12 | 21 |

Likewise meeting with GWIDD/IDD have been attempted 6 on November/December (Jumla, Banke, Bardiya, Dang, Surkhet and Dailekh), 3 on February (Dang, Salyan and Rukum) and 3 on March (Banke/GW, Banke surface and Bardiya). Actually seen here visited and meeting conducted with GWIDD/IDD figure is twelve but plan is less six because TMS visited repeatedly with CTA team Mr MP Joshi and Dr. VN Gupta in Dang, Banke, Bardiya and Surkhet Districts. In all Districts discussed on subproject progress, issues, solving measures, Grievance handling, SEMP, IDF progress and knowing the work problem in those ISPs (Thure&AmbasaBalanti) which are situated in area of wildlife conservations Banke and Bardiya.

3.2 Subproject Preparation

No any DFSR and SEMP of Subprojects are prepared or reappraised during this reporting period, actually there were no activities planned.

3.3 DoI Capacity Development

One regional workshop was conducted during this period at Nepalgunj and no any refresher training course was conducted during this period because of new provincial set up, actually new provincial ministry (Ministry of Industry, Tourism, Forest and Environment) occupied this RID building and all the RID staffs shifted to a new building of BheriBaboi Diversion, they all have been adjusted only in three rooms.

Table 11 Action Plan Review for DoI Capacity Development

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Assist the DOI in conducting Regional Workshops | Plan | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| | | Done | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 4.2 | Project orientation/refresher trainings to field staff (AOs etc.) | Plan | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| | | Done | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

3.4 WUA Institutional and Capacity Development

During this reporting period it is observed & monitored the WUA activities as of IDF in 19 ISPs (two times observed & monitored to Thure and AmbasaBalanti therefore in following table we can see 21 figures) and similarly visited to 19 ISPs (two times visited to Thure and AmbasaBalanti therefore in following table we can see 21 figures) in 8 Districts (Jumla, Surkhet, Dailekh, Salyan, Rukum, Dang, Banke and

Bardiya) with IDD/IDSD staffs, walked through head to tail in all ISPs, interacted with the users/farmers/WUA members and talked on SEMP, ISF collection for repair & maintenance and institutional development IDF indicators, in actual WUA institutional & capacity development is in moderate level, therefore it has been given to high priority to WUA institutional development strengthening and for this need to arrange frequent monitoring visits, interaction and counselling (even though by telephone conversation in remote areas) to WUAs, similarly has to arrange series of training programs and tour which enable their organizational capacity. During this trimester thirteen training events have been conducted on pre-construction training, institutional and agriculture development. Similarly three in-country exposure visits have been conducted in PidalnePhant ISP Pyuthan, LamaShera ISP Pyuthan and BahunDanda ISP Dang (the figures of trainings and visits which are mentioned below were conducted within our in this reporting period but not after).

Table 12 Action Plan Review for WUA Institutional and Capacity Development

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.1 | Observing and monitoring the WUA activities as of IDF | Plan | 8 | 3 | 3 | 3 | 0 | 9 | 17 |
| | | Done | 12 | 9 | 0 | 8 | 4 | 21 | 33 |
| 5.2 | Visit ISPs with IDD/IDSD/GBO staff and discuss any problems and solutions with farmers. | Plan | 8 | 3 | 3 | 3 | 0 | 9 | 17 |
| | | Done | 12 | 9 | 0 | 8 | 4 | 21 | 33 |
| 5.3 | Assist and advise the DOI staff in conduct 4 in built trainings in each SPs | Plan | 8 | 3 | 3 | 3 | 0 | 9 | 17 |
| | | Done | 1 | 4 | 4 | 3 | 2 | 13 | 14 |
| 5.4 | Conducting in-country exposure visit and tour to WUAs in pilot subprojects | Plan | 0 | 1 | 1 | 1 | 0 | 3 | 3 |
| | | Done | 0 | 0 | 0 | 2 | 1 | 3 | 3 |

Actually seen here plan is 9 but visited to 21 ISPs (repeatedly visited to Thure&AmbasaBalanti) and similarly plan is 9 but observed & monitored the WUA activities as of IDF is to 21 ISPs (repeatedly observed & monitored to Thure&AmbasaBalanti) because initially we TA team visited to three subprojects in Jumla, Dailekh & Surkhet and amid TMS visited to six subprojects with CTA team Mr MP Joshi and Dr. VN Gupta in Dang, Banke, Bardiya & Surkhet Districts on November/December. Likewise we TA team visited to large number of ISPs (eight subprojects) on February in Dang, Salyan and Rukum. Again weTA team visited to four ISPs on March in Banke and Bardiya. Therefore here found achievement/done number is increased. In all Districts discussed on subproject progress, issues, solving measures, Grievance handling, SEMP, IDF progress and knowing the work problem also in those ISPs (Thure&AmbasaBalanti) which are situated in area of wildlife conservations Banke and Bardiya.

3.5 Safeguards

Previously 33 and during this period 3, in total 36 ISPs have provided the land donation records and similarly action plan on GVCD in GamKholakholtepani-Surkhet is already prepared as pilot based and now is in implementation stage, budget on Mushroom activity with five hundred thousand rupees is approved by OPD and authority for expense is given to IDD Surkhet also. One subcommittee of target group is formed in GamKholakholtepani for GVCD implementation effectively and the training with logistic supports to the beneficiaries 18 (female 12 and Janajati 15) on December 26, 2017 has been already performed on Mushroom by IDD Surkhet, as we TA team observed and found training was effective and all the participants were seen active. Now seen that started Mushroom production and selling to nearer markets (as knew by telephone conversation with WUA Chairperson). There should be correlation between plan and achievement or plan in real base then target to achieve.

Table 13 Action Plan Review for Safeguards

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|----------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 6.1 | Compiled land donation records of WUAs | Plan | 0 | As record become available | | | | | 0 |
| | | Done | 0 | 0 | 0 | 2 | 1 | 3 | 3 |
| 6.2 | Prepare draft Gender and Vulnerable Community Development (GVCD) Action Plan | Plan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Done | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|-------------|
| | | | | N/D | J | F | M | Total | |
| 6.3 | GVCD Action Plan implemented on pilot basis | Plan | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| | | Done | 0 | 0 | 1 | 0 | 0 | 1 | 1 |

4 KEY ISSUES

In many WUAs have not yet established WUA office with sign board and strictly is counselled them for office establishment soon and also WUA meeting regularize at least once in a month.

Similarly, membership card is also not found there in many WUAs therefore is counselled them for printing card & distribute to users/farmers and WUA members compulsory.

It could not get high priority to implement SEMP activities/mitigation measures by implementing agencies sincerely rather overall focus goes to engineering construction.

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

FAR WESTERN REGION
TMS TRIMESTER REPORT
16/11/2017 – 15/03/2018

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

March 2018

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1 PROJECT IMPLEMENTATION

1.1 WUA Institutional and Capacity Development

Table 1 IDF Progress to Date on Selected Schemes

| District | Name of Subproject | Status | IDF Progress (% of Activities Completed) | | |
|------------|---------------------|-----------|--|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Darchula | Goiladi | Completed | 100 | 42 | 75 |
| | Naktad | Ongoing | 82 | 58 | 57 |
| | PantpaliBinakoirali | Ongoing | 82 | 33 | 50 |
| Bajhang | SubedaTalloJiula | Completed | 100 | 33 | 71 |
| | SubedaMalloJiula | Ongoing | 82 | 25 | 43 |
| | Bhairabnath | Ongoing | 82 | 33 | 43 |
| | Kuch | Ongoing | 100 | 58 | 86 |
| | DeuraJupalikhet | Ongoing | 82 | 25 | 38 |
| | Bhajura | Ongoing | 100 | 58 | 50 |
| | Baitadi | Ongoing | 82 | 42 | 50 |
| Baitadi | Limuda | Completed | 82 | 42 | 50 |
| | Nwali | Completed | 82 | 33 | 63 |
| | Manekuda | Completed | 82 | 25 | 38 |
| | Kotedigad | Ongoing | 82 | 58 | 38 |
| Doti | Dhanrashkhet | Completed | 82 | 75 | 43 |
| | Kalapathhreswor | Ongoing | 82 | 58 | 29 |
| | Kadamandau | Ongoing | 82 | 58 | 29 |
| Dadeldhura | Bhittesal | Completed | 100 | 75 | 43 |
| | Dhittadi | Completed | 82 | 42 | 63 |
| | Jogijala | Completed | 100 | 67 | 38 |
| | Baduwa | Completed | 100 | 67 | 38 |
| Kanchanpur | Bagun | Completed | 82 | 75 | 63 |
| | Kalapani | Ongoing | 100 | 65 | 50 |
| | Suda DTW | Ongoing | 82 | 58 | 50 |
| Kailali | Ratipur | Completed | 100 | 67 | 75 |
| | Sandepani DTW | Ongoing | 100 | 67 | 75 |

If we see Table 1; the scenario of completion of IDF activities of all three phases for 12 completed ISPs is 5 WUAs have completed 100% and 7 WUAs have crosses 82% of IDF activities of phase I. Likewise, 6 WUAs have crosses 50% and 6 WUAs have could not crosses 50% of IDF activities of phase II. Regarding phase III of IDF activities progress is satisfactory than the phase II i.e. 7 WUA have crosses 50-75% and 5 are under 50%.

Likewise, the scenario of completion of IDF activities of all three phases for 13 ongoing ISPs is 4 WUAs Kuch, Bhaunera (New), Kalapani and Sandepani have completed 100% and 9 WUAs have crosses 82% of IDF activities of phase I. 9 WUAs have crosses 50% and 4 WUAs have could not crosses 50% of IDF activities of phase II. In terms phase III of IDF activities progress is less than the phase II i.e. 7 WUA have crosses 50-86% and 6 are under 50%.

If we analysis the overall progress of IDF activities implementation it could be say that ongoing specially new ISP's WUAs have satisfactory progress of IDF implementation. In terms less percentage of phase II than other phase I and III for completed ISPs is due to regular and mandatory activities are under phase II that WUA have to conduct every year in time but they did/could not consequences reduce the rate of progress of IDF phase II. Other factor is they have lack of knowledge and skill of rule and regulation formulation, unfamiliar of IWRMP administration requirement, Almost WUAs looking negligence to regularize the meetings of EC board and general assembly, financial audit and renewal of WUA in time.

But in terms ongoing ISPs the IDF activities implementation progress is visa-versa to completed ISPs regarding less percentage of phase III than phase II that is because of ongoing ISP have received more trainings and orientation from the beginning phase.

In terms of institutional development of WUAs, WUAs have received a lot of capacity development trainings but the Table No. 1 shows that they need more backstopping for WUA strengthening. During the meeting with WUA found that trainings could not delivered in appropriate time frame i.e sometimes and somewhere the preconstruction and quality control training had been delivered after completion of phase second (construction phase). It is also found that many of factors disturbed the training annul schedules like political instability, lack of staffs in DOI field offices, delay in budget releasing, lengthy process and procedures etc. It is absorbed that WUA members and farmers are gave more attention to the training allowances not to the training subjects and its importance. Leadership development and good governance training, administrative and account management training, irrigated cropping system should be provide to WUAs may strengthen the WUA institution.

Only 4 WUAs have received the money they deposited upfront during ISP formulation and made agreement between IDD/IDSD and WUAs. Another basic problem is the lack of mobilization of sociologists of IDD/IDSDs offices. Only one IDD Bajhang has no AOs in its office. And then a single AO has to cover all subprojects in that district and not just IWRMP subprojects. With such a low level of interaction, many WUAs don't appreciate the importance of the IDF activities in helping them manage their irrigation systems in a sustainable way.

Table 2 WUA Training Completed to Date

IDD/IDSDs/GWIDD offices have to conduct the WUA capacity development trainings. But the IDD/IDSDs/GWIDD could have only delivered the 4 events of 'integrated crop and water management, institutional development, safe use of pesticides and use of improved seeds and irrigated cropping trainings during this trimester period.

| | Events (No) | Participants | | | Ethnicity | |
|-------------------------------------|----------------|--------------|--------|-------|-----------|-------|
| | | Male | Female | Total | Janajati | Dalit |
| To end of 5 th Trimester | 123 | 1,985 | 1,694 | 3,679 | 126 | 461 |
| 6 th Trimester | | | | | | |
| Mountain | 1 | 19 | 22 | 41 | 0 | 9 |
| Hill | 1 | 14 | 11 | 25 | 0 | 0 |
| Terai Surface | 1 | 8 | 17 | 25 | 10 | 1 |
| Terai GW | 2 | 46 | 17 | 63 | 7 | 4 |
| Subtotal | | | | | | |
| Total to Date (No) | 128 | 2,072 | 1,761 | 3,833 | 143 | 475 |
| (%) | | 54 | 46 | | 04 | 12 |

In terms, assist to DOI in capacity development of WUAs facilitated different In-built trainings organized by IDD/IDSDs/GWIDD. During the facilitation or meeting with WUAs found most of WUAs members have lack of knowledge and skill of institutional development (IDF) yet as well as AOs (sociologists) of IDD/IDSDs. Although, if we see the above Table 2 training data, WUAs have get a lot of capacity development trainings. This means there is lack of regular follow up the activities of WUA in terms institutional development or operation and maintenance of systems. And also need more refresher capacity development trainings to WUAs and AOs (sociologist) of IDD/IDSD on Leadership development

and good governance, administration and account management, O & M Plan and ISF Collection Plan development, and fund raising and resource mobilization. The WUA also need handhold coaching support in formulation of WUA rule and regulation, account book keeping, O & M and ISF collection plan development, membership card develop and printing, develop the code of conducts.

1.2 Gender and Vulnerable Community Development Action Plan

The Gender and Vulnerable Community Development Action Plan had been developed in previous (4th) trimester period in Bhattesal ISP, Dadeldhura. But the IDSD had delayed in submission of cost estimate plan for GVCD plan implementation and at the mean time OPD asked to TA Team to develop GVCD plan in other potential ISP. So the GVCD plan had been developed in Ratipur ISP, Kailali during this trimester period. IDD, Kailali have started to implement of the GVCD by conducting the trainings and essential materials for seasonal off seasonal vegetables production in poly house distributed to targeted farmers.

1.3 Work Programme until End of Project

In terms completion of remaining IDF activities discussed with the IDD/IDSD officials and WUAs during the field visit and regional workshop.

All 25 ISPs completed and ongoing no one of them has completed all 31 IDF activities of three phases. Some of them have completed 80% some of them have 70% some have 60%. So in terms completion of remaining IDF activities discussed with the IDD/IDSD officials and WUAs during the field visit and regional workshop. They all say they will complete the remaining IDF activities by conducting orientations and meetings with WUA within the Project period. According to consultation with IDD/IDSD/GWIDD officials the planned IDF activities are as follow;

Table 3 Planned IDF Activities 16 March to 30 June 2018

| District | Name of Subproject | Status | No of Programmed IDF Activities | | |
|------------|---------------------|-----------|---------------------------------|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Darchula | Goladi | Completed | 0 | 2 | 1 |
| | Naktad | Ongoing | 2 | 3 | 2 |
| | PantpaliBinakoirali | Ongoing | 2 | 3 | 2 |
| Bajhang | SubedaTalloJiula | Completed | 0 | 4 | 2 |
| | Subeda Mallo Jiula | Ongoing | - | - | - |
| | Bhairabnath | Ongoing | 2 | 3 | 2 |
| | Kuch | Ongoing | 0 | 3 | 1 |
| | DeuraJupalikhet | Ongoing | 2 | 4 | 3 |
| Bajura | Bhaunera | Ongoing | 0 | 5 | 3 |
| Baitadi | Limuda | Completed | 2 | 4 | 2 |
| | Nwali | Completed | 2 | 3 | 2 |
| | Manekuda | Completed | 2 | 3 | 2 |
| | Kotedigad | Ongoing | 2 | 4 | 3 |
| Doti | Dhanrashkhet | Completed | 2 | 1 | 3 |
| | Kalapathhreswor | Ongoing | 2 | 3 | 3 |
| | Kadamandau | Ongoing | 2 | 3 | 3 |
| Dadeldhura | Bhattesal | Completed | 0 | 0 | 2 |
| | Dhittadi | Completed | 2 | 3 | 1 |
| | Jogijala | Completed | 0 | 2 | 2 |

| District | Name of Subproject | Status | No of Programmed IDF Activities | | |
|------------|--------------------|-----------|---------------------------------|---------------------------|------------------|
| | | | Phase 1 (Preparatory) | Phase 2 (Construction) | Phase 3 (O&M) |
| Kanchanpur | Baduwa | Completed | 0 | 2 | 2 |
| | Bagun | Completed | 2 | 1 | 1 |
| | Kalapani | Ongoing | 0 | 1 | 2 |
| Kailali | Suda DTW | Ongoing | 2 | 3 | 2 |
| | Ratipur | Completed | 0 | 1 | 1 |
| | Sandepani DTW | Ongoing | 0 | 1 | 2 |

If we see the table No. 3 looking large numbers of activities remains to be conduct that may take a long time. Actually these IDF activities are not directly related to trainings or orientations, mostly these activities are in the part of WUA they have to complete by their selves i.e. AGM meeting, financial audit, renewal of WUA, ISF collection, registers maintain, women's' participations, formation of subcommittees, linkage building with stakeholders, arrangement of Dhalpa, WUA office establish with sign board etc. So the IDD/IDSDs/GWIDD expected above mentioned IDF activities will completed within the Project period. At basis of discussion with Dol field office officials and WUA officials I also expect and think above planned activities will take maximum one day time to be complete for each so it is possible to complete the said activities within the Project time. But IDD/IDSDs/GWIDD need asked to WUA time to time for accelerate to complete the remaining works of their parts through telephone or if possible mobilization of AOs so that WUA will be aware and attention to do their jobs. However, it is considered unlikely that IDF activities such WUA rules and regulation formation, code of conduct formulation, fund raising, resource mobilization, linkage building will be completed by June 30, 2018 because these activities need enhance skill of WUA and it takes some time to achieve this. These activities have not therefore been included in Table 3.

2 PROJECT SAFEGUARDS

2.1 Social and Environmental Management

2.1.1 Preparation of Subproject SEMP

Assisted to DOI field offices on revising and approval of SEMP of 5 ISPs; Bhaunera, Kotedigad, DeuraJuwalikhet, Kadamandau, Kalapathhreswor and Kalapani by remove ambiguities and mitigation measures not directly relevant to the activities of thisproject during the regional workshop held on February 21-24, 2018 in Mahendranagar

2.1.2 Rates of Compliance

The rate of compliance increased during this reporting period for completed and ongoing subprojects because of ongoing work on SEMP activities through the reporting period, consultation by environmental specialist and sociologist (during field visit) with IDD/IDSDs/GWIDD for correction of some haziness and irrelevant issues from SEMP reports.

During field visit, SEMP report reviewed by conducted meeting with IDD/IDSDs/GWIDD officials and WUA members and discussed on SEMP mitigation measures implementation status. The progress status is as a result, reported rates of compliance have increased from 82% to 86% for completed projects and from 28% to 39% for ongoing subprojects.

Table 4 SEMP Implementation on Completed ISPs as of 15 March 2018

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|-------------------|-----------|--------------|--------------|---------------------------|--------------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain | 2 | 2 | 12 | 17 | 14 | 3 |
| Hill | 3 | 8 | 54 | 88 | 79 | 9 |
| Terai (Surface) | 2 | 2 | 20 | 49 | 40 | 9 |
| Terai (GW) | | | | | | |
| Total (No) | 7 | 12 | 86 | 154 | 133 | 21 |
| (%) | | | | | 86.3% | 13.6% |

As of above Table 4 shows more than 13% of non compliance of IDF activities is remains but these non compliance mitigation measures are either ambiguities or non-relevant issues to the subprojects. If we beside these ambiguities and non-relevant issues actually say ISPs is success to complete more than 95% implement of SEMP for completed subprojects.

Table 5 SEMP Implementation on Completed ISPs as of 30 June 2018 (Projection)

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|-------------------|-----------|--------------|--------------|---------------------------|------------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain | 3 | 8 | 49 | 67 | 54 | 13 |
| Hill | 3 | 11 | 61 | 92 | 85 | 7 |
| Terai (Surface) | 2 | 3 | 23 | 51 | 48 | 3 |
| Terai (GW) | 2 | 2 | 29 | 51 | 28 | 23 |
| Total (No) | | 24 | 162 | 261 | 215 | 46 |
| (%) | | | | | 82% | 18% |

If we see above Table 5 SEMP overall compliance progress is 82% completed and left 18% to be complete. The data mentioned above table 5 is updated by collect information of further progress covered after 16 March 2018. As per repeatedly discussion and consultation with the DOI filed office's

officials 18% of non compliances mitigation measures of SEMP will be completed within the Project period 30 June 2018 by beside the included few nos. of ambiguities and non relevant issues.

In terms completion of noncompliance issues of SEMP within the Project period could be completed according to discussion with DoI Filed Offices officials because left 18% to be complete of mitigation measures include a few numbers of ambiguity and non relevant issues for example in the SEMP of Subeda Mallo/Tallo Jiula and Nwali SEMP mentioned 'forest area' but actually there was no forest area in Subeda Mallo/Tallo Jiula, and Nwali ISP's command area. Likewise, 'inequality in wages among men and women for same work' issue is also mentioned in almost ISP's SEMP. But this issue is no more remain during the period of ISP implementation because of social changes by timeframe and intervention different actors. So if we beside these non-relevant and ambiguities issues the percentage of 18% non compliances reduce by 3% and left 15% to be complete that increase the possibility of completion within the Project period.

Table 6 SEMP Implementation on ISPs Not Completed by 30 June 2018 (Projection)

| Ecological Belt | Districts | Sub Projects | Issues (Nos) | No of Mitigation Measures | | |
|--|-----------|--------------|--------------|---------------------------|-----------|---------------|
| | | | | Total | Compliant | Not compliant |
| Mountain Hill Terai (Surface) Terai (GW) | 1 | 1 | 8 | 13 | 0 | 13 |
| Total (No) | | | 8 | 13 | 0 | 13 |
| (%) | | | | | 0% | 100% |

The SEMP mitigation measures of Subeda Mallo Jiula ISP, Bajhang could not complete within the Project period 30 June 2018, because of some technical problem create in canal construction and the NCB contract work is stopped. For land slide zone, HDPE pipe supply and fitting for canal lining is under NCB contract. Contractor had already supplied the required Nos. of pipes and contractor is ready to construct according to the contract but WUA members are not ready to use HDPE pipe. Their demand is for covered canal RCC lining. IDD chief and Regional director of FWDR are convinced to construct covered RCC canal lining. But the problem is not resolved yet so still there is a contractual and technical problem. Therefore, neither could complete the subproject civil works nor SEMP activities within the project period June 2018.

Generally it is observed that the cultural, social and human habitats were not disturbed and issues related to health and sanitation, deforestation were not noticed during the course of ISP implementation, however, floods in SubedaTallo and MalloJiula, Naktad, Bagun, Kalapani and Ratipur ISPs were considered as the major problems.

2.1.3 Areas of Non-compliance

IDDs/IDSDs/GWIDDs are responsible for implementing subprojects. However, IDDs/IDSDs/GWIDD are unfamiliar with SEMP that the SEMP did not given priority during the implementation of ISPs. Furthermore, areas of non compliance are lack of logistical support to spend sufficient time on site, lack of skilled staff, late implementation of ISPs, lack of knowledge about and motivation towards SEMP and priority being given to main construction contracts. There were mentioned ambiguity and non relevant issues for example in the SEMP of Subeda Mallo Jiula and Nwali SEMP mentioned '**forest area**' but actually there was no forest area in Subeda Mallo Jiula, and Nwali ISP's command area. Likewise, '**inequality in wages among men and women for same work**' issue is also mentioned in almost ISP's SEMP. But this issue is no more remain during the period of ISP implementation because of social changes by timeframe and intervention different actors.

The SEMP is embedded service of the IWRMP ISP need to orient to IDDs/IDSDs/GWIDD of importance of SEMP for IWRMP.

2.2 Gender and Vulnerable Communities

The reason for negligible representation of females in WUA and lack of exposure to women because like men they were not taken for the field visits to irrigation subprojects. Despite major role played by women in agriculture, their contribution is taken to be the extension of their household chores and hence their low participation in irrigation could also be attributed to the fact that irrigation and agriculture related activities are within the males' domain in Nepal. Therefore, in most cases, it was also found that there was no gender parity when it came to having access to information. It were men who always got information first and whose voices were easily heard while women were the ones who received information indirectly, either through the women leaders in their community or through their male counterparts and their concerns were not given much priority. As mentioned in **Section 1.2**, Concerned **IDDs** Kailali have currently prepared the proposal for GVCDAFs in Ratipur.

Table 7 Demography of AF Subprojects

| Ecological Belt | ISP (Nos) | HH (No) | Population | | | | |
|-----------------|-----------|---------|------------|-------|--------|----------|-------|
| | | | Total | Male | Female | Janajati | Dalit |
| Mountain | 9 | 1056 | 6662 | 3319 | 3343 | 106 | 1466 |
| Hills | 11 | 1343 | 10823 | 5200 | 5623 | 88 | 2278 |
| Terai (Surface) | 3 | 1350 | 8629 | 4153 | 4476 | 1233 | 420 |
| Terai (GW) | 2 | 749 | 5639 | 2930 | 2709 | 1144 | 564 |
| Total (No) | 25 | 4498 | 31753 | 15602 | 16151 | 2571 | 4727 |
| Total (%) | | | 100 | 49 | 51 | 8 | 15 |

The population of Janjati as seems in Table 7 is low in the command area of ISPs of Far west region. It is due to the settlement of ethnic groups in mountain and hill ecological belt of Far west region is less in numbers rather than other regions while there is more than 40% of Janjati (Tharu and non-tharu) settlement situated in Terai Kailali and Kanchanpur. So, the population of Janjati looking less in numbers in overall demography data of the 25 ISPs of this region while the population of Dalit is varies as per the situation of settlement.

Table 8 Levels of Representation in WUA Executive Committees

| Ecological Belt | No of ISPs | WUA Representatives | | | | |
|-----------------|------------|---------------------|------|--------|---------|-------|
| | | Total | Male | Female | Janjati | Dalit |
| Mountain | 9 | 95 | 62 | 33 | 0 | 17 |
| Hills | 11 | 125 | 83 | 42 | 1 | 17 |
| Terai (Surface) | 3 | 37 | 25 | 12 | 8 | 3 |
| Terai (GW) | 2 | 24 | 19 | 5 | 3 | 1 |
| Total (No) | 25 | 281 | 189 | 92 | 12 | 38 |
| Total (%) | | 100 | 66 | 34 | 5 | 13 |

As of above Table 8 we see and found that the representation of Janajti, Dalit and women in WUA in Terai region is not satisfactory because it is less than the population percentage of female and Janajti shows in demography disaggregate data of Table 7 while in Hill and Mountain region Dalit and women representation is satisfactory according to disaggregated demography data in Table 7.

2.3 Land Acquisition and Resettlement

All 25 ISPs land acquisition (donation) records has been collected and reported. There is no hindrance for construction of canal due to land acquisition till to date and as per Table 9 records of land acquisition documents all 25 WUAs have provided the minutes of meeting and land donate letter (Manjurinama) of donor farmers that shows the farmers are agree to donate the land areas as required for canal construction in free of cost.

Table 9 Land Acquisition/Donation Documents Received

| Ecological Belt | No of SPs | No of WUAs to have Supplied Documents | | |
|-----------------|-----------|---------------------------------------|----------------|-------|
| | | Previous | This Trimester | Total |
| Mountain | 9 | 9 | 0 | 9 |
| Hills | 11 | 11 | 0 | 11 |
| Terai (Surface) | 3 | 3 | 0 | 3 |
| Terai (GW) | 2 | 2 | 0 | 2 |
| Total | 25 | 25 | 0 | 25 |

All 25 ISPs land acquisition/donation related documents collection work had been completed till 5th trimester report.

3 TA TEAM TRAINING AND SOCIAL ACTIVITIES

3.1 Project Coordination

By coordinating with regional director and irrigation divisions/subdivisions/ground water offices performed the activities by delivering the outputs of;

Participated in and facilitated the regional coordination meeting with RID and other Officials of RID two events had been conducted in December 2017 and January 2018 in FWRID office, Dhangadhi. In the meeting discussed on data collection for datasheet, project completion reports, issues and its resolving way forward and field visit to Darchula, Bajhang, Bajura, Baitadi, Dadeldhura, Kanchanpur and Kailali districts and agenda of prioritise the ISPs for next field visit. During the meeting discussed on issues of Subeda Mallo Jiula ISP of Bajhang developed the situation of stopping the construction works. In the meeting made consensus to keep try to find out way forwards if possible from both DoI and TA Team sides.

Conducted meeting with IDSD officials of Bajhang, Darchula, Baitadi, Dadeldhura, Kailali and Kanchanpur in December 2017, January, February and March 2018 during the field visit. In the meeting discussed on WUA institutional development framework progress, office administration, ISF collection status, SEMP non compliances in Subeda Tallo Jiula, Bahirab Nath, Deura Juwalikhet, Pantpali Binakorali, Gailadi, Bhaunera, Nwali, Limuda, Dhittadi, Ratipur, Sandepani, Kalapni and Suda ISPs. During the meeting also discussed on constrains of WUAs Office administration, IDF implementation, ISF collection and its way forwards.

Table 10 Action Plan Review for Project Coordination

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 2.2 | Regional meeting with concerned Stakeholders | Plan | 4 | 1 | 1 | 1 | 1 | 4 | 8 |
| | | Done | 1 | 2 | 1 | - | - | 3 | 4 |
| 2.3 | Meeting with IDD/IDSDs/GWIDDs | Plan | 4 | 1 | 1 | 1 | 1 | 4 | 8 |
| | | Done | 1 | 3 | 3 | 1 | 2 | 9 | 10 |

The coordination meeting with stakeholders conducting progress is just success to 50%. 2 out of 4 planned coordination meetings had been conducted in December and January. In February and March could not conducted meeting because of lacking in time management of stakeholders. But meeting with IDSDs/GWIDD has been conducted according to targeted events.

3.2 Subproject Preparation

Assisted to IDD/IDSD Bajura, Bajhang, Baitadi, Doti, and Kanchanpur for sub-project including SEMP reappraisal of Kadamandau, Kalapthreswor, Bhaunera, ISPs and revision of SEMP of Kotedigad, and Kalapani during the field visits and Regional workshop.

3.3 DoI Capacity Development

Participated and provided facilitation support to DoI to conduct regional workshop held on February 21-23, 2018 in Mahendranagar organized by IWRMP. In the workshop presented and briefed overall progress of social (WUA institutional) and environmental part of ISPs implementation.

Table 11 Action Plan Review for DoI Capacity Development

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 4.1 | Assist the DoI in conducting Regional Workshops | Plan | - | 1 | - | - | - | 1 | 1 |
| | | Done | - | - | - | 1 | - | - | 1 |
| 4.2 | Project orientation/refresher trainings to field staff (AOs etc.) | Plan | - | - | 1 | - | - | 1 | 1 |
| | | Done | - | - | - | - | - | - | - |

The target of one events of regional workshop has been achieved by participating and providing facilitation support in workshop. But targeted one event of training for AOs during this reporting period is not conducted.

3.4 WUA Institutional and Capacity Development

During the reporting period visited the SubedaMalloJiula, SubedaTalloJiula, Bhairabnath, DeuraJuwalikhet of Bajhnag, PantpaliBinakoirali, Gailadi of Darchula, Nwali, Limuda of Baitadi, Dhittai of Dadeldhura, Sandepani, Ratipur of Kailali and Kalapni, Suda of Kanchanpur and discuss and interact with WUA members and farmers on over all IDF progress i.e.WUA rule and regulation and administration management, membership distribution, grievance readdress management, ISF collection and fund raising, and canal operation and maintenance and SEMP mitigation measures implement progress. During the field visit and discussion with WUA found excellent progress on certain IDF activities completion. For example, 12 WUAs have establish their office with signboard including ongoing ISP, 11 WUA have started to collection of ISF except one Manekuda for 12 completed ISPs. Although, the ISF collection system is ad hoc basis could not regularize and no systematic. Likewise grievance readdress system (GRM) is briefing and established the record keeping resister in 21 ISPs as well as in IDD/IDSD/GWIDD level and Regional level. Women participation in training/orientation, exposure visits and other events is more than 33% means WUA meet the government policy of women participation but regarding in representation of women in WUA board is not so satisfactory. In 18 WUA meet the 33% of women participation in EC board but rest of 7 WUAs have 22-27% of women participation in EC board. But TA Team have suggested to these 7 WUAs to meet the 33% as soon as possible during the field visit discussions.

Regarding administration management of WUA is found weak in overall. The meeting of EC board and AGM is not regularized and financial audit and renewal of WUA registration is also not regularize and not conducted in time. WUA rule and regulation formulation part is also weak no one WUA could have formulate essential policies yet. It is observed that this is due to lack of knowledge and skill of WUA members so they need hand hold coaching support.

Provided assistance support to IDD/IDSD/GWIDD in conducting the inbuilt trainings/orientations for ISF fixing and collection, fund raising and resource mobilization membershipcard distribution, account management and linkage building with stakeholders for sustainability of irrigation scheme. But in terms enhanced the institutional capacity of WUA only few events (5 events in 4 ISPs) of inbuilt trainings/orientations to WUA has been conducted by IDDS/IDSD/GWIDD during this reporting period.

During the field visit it was found that WUA members were committed to sustain their ISP particularly following fundamental rule and regulation of the system operation and maintenance. But a few nos. of WUAs found inactive need to backstopping in term enhance their capacity. The WUA members need Institutional development refresher trainings/orientations on role and responsibility of WUAs members, leadership and good governance, administration management and account management. IDDS/IDSD/GWIDD and other relevant stakeholders are recommended to provide support to WUA for enhance theirinstitutional capacity and mobilize their AOs (Sociologists) frequently in fields so that the WUAs could be become self functioned and able operate canal system effectively and sustainably beyond the IWRMP or Government support.

Table 12 Action Plan Review for WUA Institutional and Capacity Development

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|---|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 5.1 | Observing and monitoring the WUA activities as of IDF | Plan | 6 | 3 | 3 | 3 | - | 9 | 15 |
| | | Done | 11 | 6 | 5 | 1 | 2 | 14 | 25 |
| 5.2 | Visit ISPs with IDD/IDSD/GBD staff and discuss any problems and solutions with farmers. | Plan | 6 | 3 | 3 | 3 | - | 9 | 15 |
| | | Done | 11 | 6 | 5 | 1 | 2 | 14 | 25 |
| 5.3 | Assist and advise the DOI staff in conduct 4 in built trainings in each SPs | Plan | 3 | 3 | 3 | 3 | - | 9 | 12 |
| | | Done | 4 | - | 2 | 1 | - | 3 | 7 |
| 5.4 | Conducting in-country exposure visit and tour to WUAs in pilot subprojects | Plan | - | - | 1 | 1 | - | 2 | 2 |
| | | Done | - | - | - | - | - | - | - |

If we see above Table 12 found the monitoring of IDF activities and visit ISPs with discussion with DoI official staffs targeted both activities have been achieved 100% but the other targeted inbuilt trainings activity achieved 33% only and exposure visit activity could not conducted.

3.5 Safeguards

In terms regular monitoring of the ISPs conducted field visit and assisted to IDD/IDSDs/GWIDD and orientate to WUAs on SEMP mitigation measures and its importance of implementation for project completion.

During the field visit reviewed of SEMP mitigation measures implementation status in 19 ISPs in this reporting period. The land donation records collection and compilation, prepare GVCD Plan development activities had been already completed during previous 4th and 5th trimester reporting period. And The GVCD Plan implementation activity has been achieved in time during this reporting period.

Generally it is observed that the cultural, social and human habitats were not disturbed and issues related to health and sanitation were not noticed during the course of ISP implementation, however, floods in Subeda Tallo and Mallojiula, Naktad, Bagun, Kalapani and Ratipur ISPs were considered as the major problems.

Table 13 Action Plan Review for Safeguards

| SN | Activities | | Tr 5 | 6 th Trimester | | | | | Total FY |
|-----|--|------|------|---------------------------|---|---|---|-------|----------|
| | | | | N/D | J | F | M | Total | |
| 6.1 | Compiled land donation records of WUAs | Plan | - | - | - | - | - | - | - |
| | | Done | - | - | - | - | - | - | - |
| 6.2 | Prepare draft Gender and Vulnerable Community Development (GVCD) Action Plan | Plan | - | - | - | - | - | - | - |
| | | Done | - | - | - | - | - | - | - |
| 6.3 | GVCD Action Plan implemented on pilot basis | Plan | - | 1 | - | - | - | 1 | 1 |
| | | Done | - | - | 1 | - | - | 1 | 1 |

Although, GVCD plan development activity was not targeted for this period but somehow the GVCD plan development events has been done in Ratipur ISP by conducting a need identify workshop. The GVCD plan which was developed for Bhittesal ISP in previous 5th reporting period was dropped due to IDSD Dadeldhura had delayed in submitting the cost estimate in IWRMP.

4 KEY ISSUES

The WUA strengthening activities is not satisfactory in most of ISP. The key issues of WUA strengthening are as follows;

- Some WUA need reformation for its board for avoid the inactiveness, maintain the good governance within WUA and somewhere need mutual understanding among key WUA officials.
- Concept of participating in trainings/orientation for receiving allowances rather than receiving knowledge and skill rooting the trend among community people defect the objective of conducting training/orientation.
- Lack of ISF collection plan and resource mobilization plan.
- Lack of Office administration management
- Lack of skills and knowledge of policy and plan development
- No essential WUA rules and regulations formulation.
- Some of WUA members unsatisfied with key officials of WUA.

The WUA members also suggested to develop administration management hold the meeting regularized of EC Board and AGM and renew the WUA in times, distribute the membership cards, defaults penalties. The WUAs who have no establish office they also advised to establish the WUA office with sign board, develop the plan of fund raising and resource mobilization and linkage building with concerning stakeholders.

Recommendations;

This is my recommendation cum suggestions that to make self functioning and more active to WUA in future, Project have to provide minimum of 5 days residential training of trainers on leadership development and good governance, IDF and administration requirement of IWRMP, fund raising and resource mobilization and stakeholder analysis and linkage building to AOs (sociologists) and other relevant staffs of IDD/IDSDs/GWIDD if budget and time allowed. If possible minimum 2 days residential training on leadership development and good governance, IDF and administration requirement of IWRMP, fund raising and resource mobilization and stakeholder analysis and linkage building provide to every 25 WUA's key position members.

For smooth and sustainable operation of canal system follow up the WUA activities by frequent mobilization of AOs and other staffs of IDD/IDSD/IGWIDD in field so that the WUAs could operate and maintain the canal system effectively and sustainably beyond the IWRMP or Government support.

ANNEX 6

TA TEAM ACTION PLANS AND RESULTS

**IWRMP (AF), Component A TA Team
Team Leader Action Plan**

| Activities | Unit | Mar 2016 | Jul 2017 | Jun 2018 | Financial Year Totals | | | FY 2015-16 | | | FY 2016-17 | | | FY 2017-18 | | |
|--|-------------|----------|----------|----------|-----------------------|-------|-------|---------------|---|---|---------------|---|---|---------------|-----|-------------|
| | | | | | | | | Mar 1-July 15 | | | Jul 16-Nov 15 | | | Jul 16-Nov 15 | | |
| | | | | | 15/16 | 16/17 | 17/18 | M | A | M | Jy/A | S | O | N | N/D | J |
| 1 REPORTING | | | | | | | | | | | | | | | | |
| 1.1 Inception Report preparation of IWRMP-A (AF) Inc PCR, MTR, IDF, S/E Program etc. | Achievement | No | 1 | 0 | 1 | 0 | 0 | 1 | | | | | | | | |
| 1.2 Trimesterly progress report preparation | Achievement | No | 3 | 3 | 0 | 3 | 3 | | | | 1 | | | 1 | 1 | 1 |
| 1.3 Annual progress report preparation | Achievement | No | 0 | 1 | 0 | 0 | 1 | | | | | | | 1 | | |
| 1.4 Midterm and terminal report preparation | Achievement | No | 0 | 2 | 0 | 1 | 1 | | | | | | | 1 | | 1 |
| 1.5 Project completion report preparation | Achievement | No | 0 | 1 | 0 | 0 | 1 | | | | | | | | | 1 |
| 1.6 Other relevant report preparation (Field report etc.) | Achievement | No | 0 | 0 | 0 | 0 | 0 | as required | | | as required | | | | 5 | as required |
| 2 TA TEAM AND PROJECT COORDINATION | | | | | | | | | | | | | | | | |
| 2.1 Regular meetings with OPD for coordination & update project progress and further implementation | Achievement | No | 32 | 11 | 9 | 24 | 10 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | 1 |
| 2.2 Lead, guide, supervise and support TA Team and confirm sample field outputs | Achievement | No | 0 | 0 | 0 | 0 | 0 | as required | | | | | | | | as required |
| 2.3 Coordinate TA Team activities through preparation of action plans and review of field visit programmes | Achievement | No | 0 | 0 | 0 | 0 | 0 | | | | | | | | | |
| 3 SUBPROJECT PREPARATION (incl. reducing costs and improving planning & design) | | | | | | | | | | | | | | | | |
| 3.1 Review and report on AF DFSRs and SEMP | Achievement | No | 0 | 6 | 0 | 0 | 6 | | | | | | | 1 | 1 | 1 |
| 4 SUBPROJECT IMPLEMENTATION | | | | | | | | | | | | | | | | |
| 4.1 Prepare implementation schedules for AF subprojects | Achievement | No | 0 | 0 | 0 | 0 | 0 | as required | | | as required | | | | | as required |
| 4.2 Assist in preparing annual plans, budgets and target achievements | Achievement | No | 0 | 0 | 0 | 0 | 0 | as required | | | as required | | | | | as required |
| 4.3 Assist and advise on management of construction supervision and project management | Achievement | No | 0 | 0 | 0 | 0 | 0 | as required | | | as required | | | | | as required |
| 4.4 Review and analyse trimestral physical/financial progress of all ISPs | Achievement | No | 3 | 3 | 0 | 3 | 3 | | | | 1 | | | 1 | 1 | 1 |
| 4.5 Assist the TA Team's M&E Specialist in preparing a ToR for independent PBME of ISPs | Achievement | No | 0 | 0 | 0 | 0 | 0 | n/a | | | n/a | | | | | n/a |
| 5 INSTITUTIONAL REFORM AND DOI CAPACITY BUILDING | | | | | | | | | | | | | | | | |
| 5.1 Organise training of regional DOI staff on project implementation, O&M and M&E | Achievement | No | 3 | 3 | 0 | 3 | 3 | | | | 1 | 2 | | | 1 | 1 |
| 5.2 Review and report on surface and groundwater procedural guidelines in light of IWRMP experience | Achievement | No | 0 | 1 | 0 | 0 | 1 | | | | | | | | | 1 |
| 5.3 Assist, as required, in consultations on the institutional reform process (Component C) | Achievement | No | 0 | 0 | 0 | 0 | 0 | as required | | | as required | | | | | as required |

IWRMP (AF), Component A TA Team
Deputy Team Leader Action Plan[illegible]

IVRMP (AF), Component A TA Team

| Activities | | Unit | Mar 2016 | Jun 2017 | Financial Year | FY 2015-16 | | | FY 2016-17 | | | | | | | | | | | | FY 2017-18 | | | | | | | | | | | | | | |
|------------|--|------|----------|----------|----------------|---------------|-------|----|---------------|---|---|----|---------------|---|---|---|----------------|---|---|---|---------------|---|---|----|---------------|---|---|---|----------------|---|---|---|---|---|---|
| | | | | | | Mar 1-July 15 | | | Jul 16-Nov 15 | | | | Nov 16-Mar 15 | | | | Mar 16-July 15 | | | | Jul 16-Nov 15 | | | | Nov 16-Mar 15 | | | | Mar 16-June 30 | | | | | | |
| | | | | | 15/16 | 16/17 | 17/18 | M | A | M | J | Jy | Jy/A | S | O | N | N/D | J | F | M | M/A | M | J | Jy | Jy/A | S | O | N | N/D | J | F | M | A | M | J |
| 1 | REPORTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | Assist in Inception Report Preparation of IWRMP-A (AF) inc PCR, MTR, IDF, SIE Program etc. | No | 4 | | 4 | 4 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | Trimesterly progress report preparation | No | 12 | 12 | | 12 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3 | Annual progress report preparation | No | 4 | 4 | | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4 | Midterm and terminal report preparation | No | 2 | 2 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | Project completion report preparation | No | 4 | 4 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6 | Other relevant report preparation (Field report etc.) | No | 124 | 24 | | 22 | 103 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | PROJECT COORDINATION MEETINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 | Regular meetings with OPD for coordination & update project progress and further Implementation | No | 30 | 12 | | 8 | 23 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | Regional meeting with concerned Stakeholders | No | 45 | 33 | | 12 | 36 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | SUBPROJECT PREPARATION (incl. reducing costs and improving planning & design) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.1 | Identify possible ISPs for conjunctive use irrigation systems | No | 3 | 1 | | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | Assist OPD in preparing proposals for identifying and prioritising use of savings from AF subprojects | No | 1 | 1 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | Assist field offices in preparation of DFSRs, including field visits and matching demands with water resources | No | 30 | 30 | | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.4 | Review of DFSR and SEMP documents | No | 53 | 3 | | 53 | 53 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 | Prepare report of reviewed DFSR and SEMP | No | 53 | 53 | | 53 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | CONSTRUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.1 | Visit subprojects with IDD/IDSD/GBO staff and discuss any problems and solutions with farmer | No | 153 | 82 | | 36 | 117 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.2 | Assist in training of WUAs and beneficiaries in construction quality control | No | 124 | 65 | | 22 | 102 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.3 | Review and analyse monthly physical/financial progress tracking for 6 ISPs | No | 153 | 9 | | 36 | 120 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.4 | Review and analyse trimestral physical/financial progress of all ISPs | No | 18 | 110 | | 28 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.5 | Prepare sample completion reports for 6 sample ISPs | No | 12 | 12 | | 13 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | OPERATION AND MAINTENANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.1 | Prepare sample plan for assessment of ISF to meet O&M costs | No | 3 | 3 | | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2 | Assist field offices and WUAs in assessing O&M costs and planning ISF collection | No | 33 | 81 | | 39 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.3 | Assist in localing proper discharge measurement point in 6 sample ISPs | No | 6 | 6 | | 6 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.4 | Review and analyse data discharge results for 6 sample ISPs | No | 3 | 3 | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

IVRMP (AF), Component A TA Team

[illegible]

IWRMP (AF), Component A TA Team

[illegible]

IWRMP (AF), Component A TA Team

[illegible]

IWRMP (AF), Component A TA Team
Agricultural Activities - Action Plan - Overall

| Activities | | Unit | Mar 2016 Jun | Jun 2017 (2)* | Financial Year | | | FY 2015-16 | | | | FY 2016-17 | | | | | | | FY 2017-18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|------|-----------------|------------------|----------------|-------|-------|------------|---|---|---|------------|-----|---|---|---|-----|---|------------|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|---|---|---|-----|---|---|---|---|---|---|
| | | | | | 15/16 | 16/17 | 17/18 | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J | Jy | JyA | S | O | N | N/D | J | F | M | A | M | J |

IWRMP (AF), Component A TA Team

| | | Unit | Mar-2016 Jun -2017 | Jul-2018 | Financial Year 15/16 16/17 17/18 | FY 2015-16 Mar-1-July 15 <div>M A M J Jy/A S O N ND J F M M/A M J Jy</div> | Jy/A S O N ND J F M M/A M J Jy | FY 2016-17 Nov-16-Mar 15 <div>N D J F M M/A M J Jy</div> | FY 2017-18 Nov-16-Mar 15 <div>N D J F M M/A M J Jy</div> |
|------|--|-------------|-----------------------|----------|---|--|--------------------------------|--|--|
| 1 | REPORTING | No | 1 | 1 | 1 | 1 | | | |
| 1.1 | Assist in Inception Report Preparation of IWRMP-A (AF) inc PCR, MTR, IDF , SE Program etc. | Achievement | 1 | | 1 | 1 | | | |
| 1.2 | Trimesterly progress report preparation | No | 3 | 3 | 3 | 3 | 1 | 1 | 1 |
| 1.3 | Annual progress report preparation | Achievement | 3 | 2 | 3 | 2 | 1 | 1 | |
| 1.4 | Midterm and terminal report preparation | No | 1 | 1 | 1 | 1 | | | |
| 1.5 | Project completion report preparation | Achievement | 1 | | 1 | | | | |
| 1.6 | Other relevant report preparation (Field report etc.) | No | | | | | | | as required |
| 2 | PROJECT COORDINATION MEETINGS | No | 18 | 9 | 18 | 9 | 2 | 2 | 2 |
| 2.1 | Regular meetings with OPD for coordination & update project progress and further Implementation | Achievement | | | | | | | |
| 2.2 | Regional meeting with concerned Stakeholders | No | 15 | 11 | 4 | 12 | 10 | 1 | 1 |
| 3 | SUBPROJECT PREPARATION | No | 10 | 9 | 11 | 8 | | | |
| 3.1 | Assist to prepare Detail FSRs | Achievement | | | | | | | |
| 3.2 | Review of DFSRs | No | 11 | 11 | 11 | 11 | | | |
| 3.3 | Prepare report of reviewed DFSRs | Achievement | | | | | | | |
| 4 | AGRICULTURE EXTENSION AND DEVELOPMENT PLANS | No | 16 | 26 | 16 | 26 | | | |
| 4.1 | Field visits to ISPs to interact with farmers and farmers' groups | Achievement | 18 | 23 | 18 | 23 | | | |
| 4.2 | Support training activities on efficient water management | No | 17 | 9 | 17 | 9 | 2 | 2 | 2 |
| 4.3 | Support training activities on crop calendar planning and cultivation of hybrid and improved varieties | Achievement | 20 | 9 | 2 | 18 | 9 | 2 | 2 |
| 4.4 | Support training activities on income generation, high value crops and safe use of pesticides | Achievement | 16 | 9 | 16 | 9 | 2 | 2 | 2 |
| 4.5 | Develop procedure for preparing agriculture development plans (ADPs) | No | 21 | 23 | 2 | 19 | 23 | 3 | 3 |
| 4.6 | Consult coordinator of IWRMP Compt D on ADP | Achievement | 16 | 8 | 16 | 8 | | | |
| 4.7 | Select two ISPs with DADO in each region for implementing ADP | No | 22 | 18 | 2 | 20 | 18 | 3 | 3 |
| 4.8 | Hold meetings with farmers in target ISPs to identify and prioritise problems for ADP | No | | | | | | | |
| 4.9 | Prepare ADP | No | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 4.10 | Monitor implementation of ADP | No | 4 | 4 | 4 | 4 | | | |
| 5 | MONITORING AND EVALUATION | No | | | | | | | |
| 5.1 | Update agriculture information and M&E data from IDD/GWIDD/DADOS | Achievement | 40 | 72 | 40 | 72 | 13 | 13 | 14 |
| 5.2 | Verify M&E data from sample subprojects | No | 28 | 34 | 28 | 34 | 10 | 8 | 10 |
| 5.3 | Verify agriculture development procedure of Compl.D. implemented by DADO on sample ISPs | Achievement | 4 | 4 | 4 | 4 | | | |
| 5.4 | Document WUA adherence to seasonal planning | No | 2 | 2 | 2 | 2 | | | |
| 5.5 | Assess district and IWRMP ISP productivity | Achievement | 1 | 3 | 2 | 2 | | | |

IWRMP (AF), Component A TA Team

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IWRMP (AF), Component A TA Team

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IWRMP (AF), Component A TA Team

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| Activities | | | | | |
|---|-----------------|----------------|---------------------------------|----------------------------------|--------------------------|
| Unit | Mar-2016 Jun | Jun-2017 | Financial Year | | |
| | | | 15/16 | 16/17 | 17/18 |
| FY 2015-16 | M A M J Jy | Jy/A S O N D/J | Jul 16-Nov 15 Jy/A S O N D/J | Nov 16-Mar 15 M/N/D J F M/M/A | Mar 16-July 15 M J Jy |
| | | | | | |
| FY 2016-17 | | | | | |
| | | | | | |
| FY 2017-18 | | | | | |
| | | | | | |
| 1 REPORTING | | | | | |
| 1.1 Assist in Inception Report Preparation of IWRMP-A (AF) Inc PCR, MTR, IDF, SIE Program etc. | No 1 1 | | 1 1 | 1 | |
| 1.2 Trimesterly progress report preparation | No 3 3 | 3 | 3 3 | 3 | 1 |
| 1.3 Annual progress report preparation | No | 1 | 1 | 1 | 1 |
| 1.4 Midterm and terminal report preparation | No | 1 | 1 | | 1 |
| 1.5 Project completion report preparation | No | 1 | | 1 | |
| 1.6 Other relevant report preparation (Field report etc.) | No | | | | |
| as required | | | | | |
| 2 PROJECT COORDINATION MEETINGS | | | | | |
| 2.1 Regular meetings with OPD for coordination & update project progress and further implementation | No | | | | |
| 2.2 Regional meeting with concerned Stakeholders | No 16 1 | 11 7 | 4 1 | 13 10 | 1 1 |
| 2.3 Meeting with IDSs/GWIDDs | No 18 8 | 14 12 | 2 3 | 17 5 | 13 12 |
| 3 SUBPROJECT PREPARATION | | | | | |
| 3.1 Assist to prepare Detail FSRs and SEMP of upcoming SP's etc | No | | | | |
| as required | | | | | |
| 3.2 Review of DFSR and SEMP documents | No | | | 6 | |
| as required | | | | | |
| 3.3 Prepare report of reviewed DFSR and SEMP | No | | | 6 | |
| as required | | | | | |
| 4 Dol CAPACITY DEVELOPMENT | | | | | |
| 4.1 Assist the DOI in conducting Regional Workshops | No 1 1 | 1 1 | 1 1 | 1 | |
| as required | | | | | |
| 4.2 Project orientation/refresher trainings to field staff (AOs etc.) | No 1 1 | 1 1 | 1 1 | 1 | |
| as required | | | | | |
| 5 WUA INSTITUTIONAL AND CAPACITY DEVELOPMENT | | | | | |
| 5.1 Observing and monitoring the WUA activities as of IDF | No 18 23 | 23 23 | 4 9 | 14 23 | 23 23 |
| 5.2 Visit subprojects with IDD/IIDS(GBO staff and discuss any problems and solutions with farmers. | No 21 14 | 23 23 | 9 6 | 12 8 | 23 23 |
| 5.3 Assist and advise the DOI staff in conduct 4 in built trainings in each SPs | No 56 30 | 23 23 | 4 30 | 52 23 | 23 23 |
| 5.4 Conducting in-country exposure visit and tour to WuAs in pilot subprojects | No 6 5 | 5 5 | 7 4 | 7 1 | 4 1 |
| as required | | | | | |
| 6 SAFEGUARDS | | | | | |
| 6.1 Compiled land donation records of WuAs | SP 33 | 43 6 | 6 27 | 6 4 | 3 4 |
| as records become available | | | | | |
| 6.2 Prepare draft Gender and Vulnerable Community Development Action Plan | No | | | | |
| 6.3 Gender and Vulnerable Community Development Action Plan Implemented on pilot basis | No | 1 1 | 1 1 | 1 1 | 1 1 |

IWRMP (AF), Component A TA Team

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IWRMP (AF), Component A TA Team

[illegible]

IVRMP (AF), Component A TA Team

[illegible]

IWRMP (AF), Component A TA Team
 Groundwater Hydrogeology Action Plan

[illegible]

IWRMP (AF), Component A TA Team
GIS/MIS Action Plan[illegible]

IWRMP (AF), Component A TA Team
Groundwater Electro-mechanical Action Plan

| Activities | Unit | Mar 2016 - Jun 2017 | Jun 2018 | Financial Year Totals | | | FY 2015-16 | | | FY 2016-17 | | | FY 2017-18 | | | | |
|--|-------------|---------------------|----------|-----------------------|-------|-------|---------------|---|---|---------------|---|---|---------------|-----|---|---|-------------------------------|
| | | | | 15/16 | 16/17 | 17/18 | Mar 1-July 15 | | | Nov 16-Mar 15 | | | Jul 16-Nov 15 | | | | |
| | | | | | | | M | A | M | Jy/A | S | O | N | N/D | J | F | M |
| 1 SUBPROJECT IMPLEMENTATION | | | | | | | | | | | | | | | | | |
| 1.1 Review operational performance and maintenance of existing pumps & ancillary works and lessons learned | Achievement | No | | | | | | | | | | | | | | | |
| 1.2 Advise on selection, tech spec and cost of pumps and ancillary works (incl starters and transformers) | Achievement | No | 1 | 1 | | | | | | 1 | | | | | | | |
| 1.3 Review DFRs and detailed designs of groundwater ISPs | Achievement | No | | | | | | | | as required | | | | | | | |
| 1.4 Prepare report on reviewed DFRs and designs | Achievement | No | | | | | | | | as required | | | | | | | |
| 2 CAPACITY BUILDING OF DoI | | | | | | | | | | | | | | | | | |
| 2.1 Assess training needs of GWIDD with respect to the O&M of groundwater pumps | Achievement | No | | | | | | | | | | | | | | | |
| 2.2 Prepare a technical manual to support training of DoI engineers in O&M of groundwater pumps | Achievement | No | | | | | | | | | | | | | | | |
| 2.3 Assist with training of DoI staff in O&M issues covered by the technical manual, above | Achievement | No | | | | | | | | | | | | | | | |
| 2.4 Review procedural implementation guidelines for electrification and pump selection for STWs | Achievement | No | | | | | | | | | | | | | | | |
| 2.5 Report on recommendations for updating procedural implementation guidelines | Achievement | No | | | | | | | | | | | | | | | |
| 3 CAPACITY BUILDING OF WUAs | | | | | | | | | | | | | | | | | |
| 3.1 Organise training of WUAs in O&M of their pump installations. | Achievement | No | | | | | | | | | | | | | | | transferred to hydrogeologist |

IWRMP (AF), Component A TA Team
Procurement Action Plan

| Activities | Unit | Mar 2016 - Jun 2016 | Jul 2017 - Jun 2018 | Financial Year Totals | | | FY 2015-16 | | | FY 2016-17 | | | FY 2017-18 | | |
|--|-------------|---------------------|---------------------|-----------------------|-------|-------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------|---|
| | | | | 15/16 | 16/17 | 17/18 | Mar 1-July 15 | Jul 16-Nov 15 | Nov 16-Mar 15 | Mar 16-July 15 | Jul 16-Nov 15 | Nov 16-Mar 15 | Mar 16-June 30 | | |
| | | | | M | A | M | J | Jy/A | S | O | N | N/D | J | F | M |
| 1 PROCUREMENT | | | | | | | | | | | | | | | |
| 1.1 Review application of WB guidelines to IWRMP-AF | Achievement | No | | | | | as required | | | | | as required | | as required | |
| 1.2 Prepare a procurement plan for IWRMP and IWRMP-AF | Achievement | No | | | | | as required | | | | | as required | | as required | |
| 1.3 Hold discussions with project officials about procurement requirements of projects | Achievement | No | | | | | as required | | | | | as required | | as required | |
| 1.4 Prepare procurement documents for goods and services | Achievement | No | | | | | as required | | | | | as required | | as required | |
| 1.5 Assist in the procurement of works for IWRMP and IWRMP-AF | Achievement | No | | | | | as required | | | | | as required | | as required | |
| 1.6 Assist in the periodic review of the procurement process | Achievement | No | | | | | as required | | | | | as required | | as required | |
| 1.7 Assist in contract procedures for IWRMP and IWRMP-AF | Achievement | No | 1 | | | 1 | as required | | | | | as required | | as required | 1 |

IWRMP (AF), Component A TA Team
Environmental Action Plan[illegible]

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