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SMALL IRRIGATION PROGRAMME (SIP), Phase-II



ASSESSMENT REPORT ON THE IMPLEMENTATION AND COMPLIANCE OF SMALL IRRIGATION GUIDELINES (SIG) BY LOCAL GOVERNMENTS IN KOSHI PROVINCE

आमचोक गाउँपालिका, बालंखा, भोजपुरद्वारा प्रकाशित

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1. Introduction

The Small Irrigation Programme (SIP), Phase II is implemented by the Government of Nepal (GoN) in collaboration with the Government of Switzerland and is built upon the experience of implementing SIP, Phase I. Targeting 59 Local Governments (LGs) in Koshi Province's mid-hills, it aims to provide year-round irrigation to 21,161 hectares through 1,385 small irrigation systems, benefiting 68,445 households. Its goal is to reduce poverty among small farmers, especially from disadvantaged groups (DAGs), by increasing their agricultural income. This will be achieved through three outcomes: effective Local Government response to irrigation needs, increased productivity of small farmers, and innovative market support.

To support the effective implementation of these outcomes, SIP assisted the Ministry of Water Supply, Irrigation and Energy (MoWSIE) of Koshi Province in preparing a draft of the Small Irrigation Guidelines (SIG); a comprehensive framework designed to establish a one-window system for the planning, implementation, and management of small irrigation schemes at the local level. The SIG draft was shared with all working LGs for adaptation and endorsement.

Till date, all 59 (100%) LGs within SIP working area have officially endorsed the SIG with due modifications to suit their needs, while 51 (86%) LGs have further published it in their official gazettes. In order to assess the extent to which these guidelines are being followed, SIP developed a set of compliance indicators based upon the guidelines. Accordingly, this survey was carried out to evaluate the SIG compliance in development of small irrigation schemes implemented both under SIP and by the LGs themselves. The assessment also aimed to identify gaps, challenges, and areas for improvement, thereby providing a foundation for targeted recommendation to ensure full compliance and enhance the overall effectiveness of small irrigation development at the local level.

2. Objectives

The specific objectives of this assessment are to:

- Examine the level of implementation and compliance with the Small Irrigation Guidelines (SIG) by local governments.
- Recommend practical measures to address gaps and enhance compliance for future interventions.

3. Scope of the work

The study is designed to assess the implementation status and compliance of SIG in irrigation schemes implemented by LGs that have officially endorsed and published the guidelines in their local gazettes. The assessment focuses on seven key indicators to measure the extent, effectiveness, and consistency of SIG application in the planning and development of small irrigation schemes.

The scope of this assessment includes, but is not limited to, the following tasks:

- Survey Preparation: Planning and designing data collection tools and questionnaires; coordinating with cluster offices; and engaging with Local Governments and Water Users' Associations to disseminate information about the survey process.
- Data Collection: Conducting field surveys to gather relevant information, documents, and data from LGs and WUAs.
- Data Analysis and Interpretation: Analyzing collected data to assess compliance levels and identify patterns, strengths, and gaps.
- Preliminary Findings and Discussion: Preparing initial findings and drafting the survey report for review and discussion within the PMISC team.

- Final Report Preparation: Revising and finalizing the report by incorporating feedback and comments received from the PMISC team.

4. Limitation of the study

The survey was carried out in selected sample of Local Governments from the total 51 LGs that have published the Small Irrigation Guidelines in their official gazettes. Similarly, irrigation schemes within these LGs were also chosen on a sample basis. Therefore, the findings of this study represent the sampled LGs and schemes and may not fully reflect the situation across all LGs in the province.

5. Study Area

The study was carried out in 20 selected Local Governments representing all 51 SIG-published LGs in Koshi Province. Sample irrigation schemes were selected through proportional random sampling from each PMISC cluster to ensure cluster-wide representation. The map below illustrates the locations of the surveyed LGs and corresponding study areas covered under this assessment. The map study area of the SIG assessment survey is presented below in **Figure 1**.

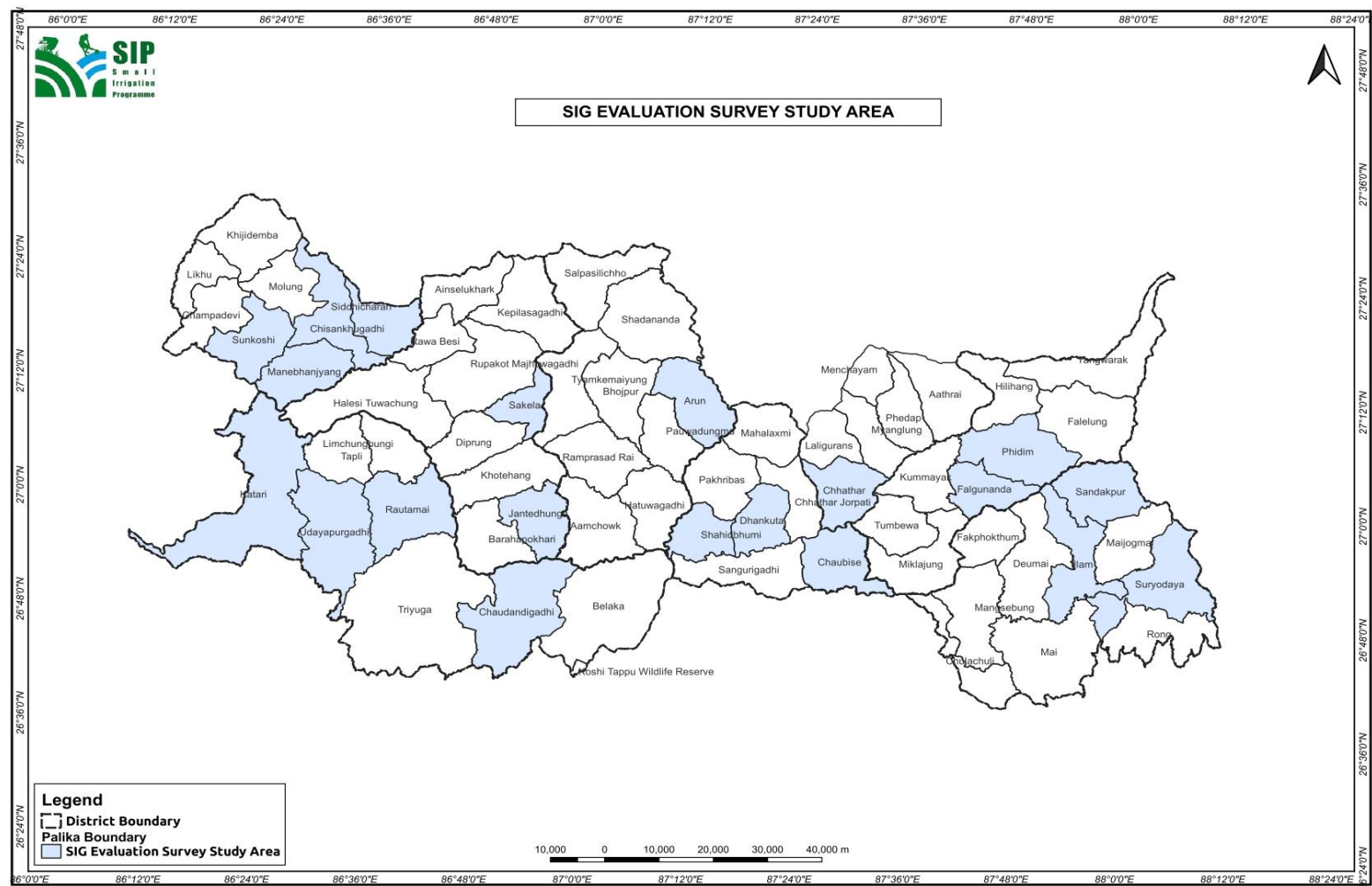


Figure 1: Study Area of SIG Assessment Survey, 2025

6. Methodology

The assessment of the SIG was conducted using a mixed-method approach, combining both qualitative and quantitative data. Quantitative data and relevant documents were collected through the mWater/Solstice mobile application, while qualitative insights were obtained through discussions and meetings with representatives of Local Governments and Water Users' Associations.

The following sub-sections outline the methodology and approaches adopted for the survey.

6.1 Sampling Process

By the end of FY 2081/82, a total of 51 Local Governments had officially published the Small Irrigation Guidelines in their respective gazettes. For this assessment, a representative sample of 20 LGs was selected from four clusters: Udayapur, Dhankuta, Okhaldhunga, and Fikkal, to ensure geographical and contextual representation.

Within these selected LGs, a total of 78 irrigation schemes completed in FY 2080/81 were included in the assessment. Among them, 75 schemes were implemented under SIP support, while 3 schemes were independently implemented by the respective LGs.

Table 1 below presents the list of selected LGs and the number of schemes assessed in each cluster. Further detailed information is provided in **Annex 2**.

Table 1: List of LGs and number of schemes

S.N.	Name of Cluster	Name of LG	Number of Scheme
1	Dhankuta	Dhankuta Municipality	4
		Chaubise Rural Municipality	4
		Sahidbhumi Rural Municipality	4
		Arun Rural Municipality	4
		Chhathar Rural Municipality	4
2	Phikkal	Suryodaya Municipality	4
		Ilam Municipality	4
		Sandakpur Rural Municipality	4
		Phidim Rural Municipality	4
		Phalgunanda Rural Municipality	4
3	Udayapur	Jantedhunga Rural Municipality	4
		Rautamai Rural Municipality	4
		Katari Municipality	4
		Udayapurgadhi Rural Municipality	3
		Chaudandigadhi Municipality	4
4	Okhaldhunga	Siddhicharan Municipality	4
		Chishankhu Gadhi Rural Municipality	4
		Sunkoshi Rural Municipality	4
		Sakela Rural Municipality	3
		Manebhanjyang Rural Municipality	4
Total Number of Schemes			78

6.2 Data collection

Data were collected using a structured questionnaire developed based on SIG compliance indicators. The questionnaire covered both quantitative and qualitative parameters and was

designed to ensure data triangulation through document verification within the mWater/Solstice system.

The following methods were employed for data collection:

1. Consultations and Meetings: Discussions with LG representatives to disseminate the survey process and clarify data collection methodology.
2. Data and Document Review: Collection of relevant information and records from different departments of LGs (account, planning, and administrative sections).
3. Engagement with WUAs: Gathering scheme-level information and records directly from Water Users' Associations.

A copy of the survey questionnaire is provided in **Annex 3**.

6.3 SIG Assessment Parameters

The data collected were analyzed to assess the level of compliance with SIG across seven thematic areas. Each area comprised specific indicators, and scores were assigned based on their relative weightage to evaluate overall compliance and effectiveness.

a) Subject 1: Scheme Selection and Budget Management

- Size of the irrigated area of the scheme
- Farmers' request, recommendation, and selection process

b) Subject 2: Institutional Roles and Responsibilities

- Irrigation service fee collection
- Renewal status of WUAs

c) Subject 3: WUA Formation and Operation

- Women's representation in Water Users' Organizations
- Female representation in key executive positions (Chairperson, Secretary, Treasurer)

d) Subject 4: Scheme Implementation and Management

- Method of implementation (WUA-led or contract-based)
- Community participation
- Upfront maintenance fund provision
- Advance payment practice
- Orientation provided by LGs to WUAs on scheme implementation
- Monitoring by Municipal Monitoring Committee before final payment

e) Subject 5: Technical Evaluation and Payment

- Availability and accuracy of detailed measurement records in the municipal measurement book

f) Subject 6: Transparency and Governance

- Practices of hoarding board display, public hearing, public review, and public audit

g) Subject 7: Support in Federal State Building

- Coordination and collaboration with other agencies for small-scale irrigation development

The details of indicators, their respective weightages, and scoring methods are presented in **Table 2**, while the assessment results and categorization of SIG effectiveness based on obtained scores are presented in **Tables 3 & 4** respectively.

Table 2. List of Assessment Indicators

Subject-wise indicator	Results			Basis of Validation	Weightage, %	Source: Article of the guideline
	Weak	Fair	Good			
Assessment Subject - 1: Project Selection and Budget Management						
Size of the irrigated area of the project	Irrigated area is more than 50 hectares (Basis:1)	The irrigated area is more than 50 hectares, but permission has been obtained from the province (Basis: 1)	Irrigated area is less than 50 hectares (Basis: 1)	1. Detailed study report or annual approved budget and program	20	Definition
Farmers' request, recommendation and selection	Having only 1 document (Basis: 1 to 6)	Having up to 4 documents (Basis: 1 to 6)	Having up to 5 documents (Basis: 1 to 6)	1. Farmer's plan request application 2. Ward or thematic committee recommendation 3. Prioritization report 4. Detailed study report 5. Annual approved budget and program 6. Recommendation letter for the plan list as per the decision of the executive	80	4, 5, 6, 7
Assessment Subject - 2: Institutional Functions, Duties, and Rights						
Irrigation service fee	Fee not charged (no basis required)	Fees collected but not regular (monthly, annual, crop-wise or other) (Basis: 1&2)	Fees collected regularly (Basis: 1&2)	1. Minute with details of the amount raised 2. Bank/cooperative voucher, minute of the amount mobilized	60	9.I
Institution Renewal (WUA Renew)	Institution not renewed (no basis required)	Institution renewal is not regular (Basis:1)	The institution has been renewed regularly (Basis: 1)	1. Certificate of Institution Registration/Renewal	40	9.F
Assessment Subject - 3: Formation and Operation of WUA						
Women's representation in the Water Users' Organization (WUA'S)	There is no representation of women in the WUA (Basis:1)	There is no representation of women as specified in the guidelines (Basis:1)	As specified in the guidelines, there is women representation in the WUA (Basis:1)	1. Name list of WUA's members	50	8.6, 11.4
Women in one of the key positions	There is no women member in any of	There are no women member in key position as	As specified in the guidelines, there are	1. Name list of WUA's members	50	11.D

Subject-wise indicator	Results			Basis of Validation	Weightage, %	Source: Article of the guideline
	Weak	Fair	Good			
(President, Secretary or Treasurer) of WUA	the key positions in WUA (Basis:1)	specified in the guidelines in WUA (Basis:1)	women member in key position in the WUA (Basis:1)			
Assessment Subject - 4: Scheme Implementation and Management						
Construction Implementation Method (WUA /Contract)	The construction and maintenance of the project within the budget limit specified in the guidelines has also been done through contracts (Basis: 2)	The construction and maintenance of the project within the budget limits specified in the guidelines have been carried out partly through private contractors and partly through contracts (Basis:1&2).	Construction and maintenance work of the project within the amount limit specified in the guidelines has been carried out through the agency (Basis:1)	1. Construction contract with the municipality – WUA 2. Construction contract with the municipality - Construction contractor	20	16
Public participation	The provision for public participation as specified in the guidelines is not included in the WUA-Municipality agreement (Basis:1)	The agreement includes provisions for public participation as specified in the guidelines, but the public participation portion was not met when making payments (Basis:1 &2)	The agreement includes provisions for public participation as specified in the guidelines and the payment was made after deducting the public participation portion accordingly (Basis:1&2).	1. WUA-Municipality Agreement 2. Payment Details/Bill	25	17
Advance Maintenance Fund	Failure to deposit the maintenance amount as prescribed in the guidelines (Basis: 1)	The maintenance amount as specified in the guidelines has been collected but not withdrawn proportionately (Basis:1& 2)	The maintenance amount as specified in the guidelines has been collected and deposited proportionally (Basis: 1&2)	1. Minute of the meeting regarding the details of the amount withdrawn 2. Bank voucher showing the amount deposited	20	15
Advance payment	The agreement does not mention the provision of advance payment as specified in the guidelines (Basis: 1)	The agreement mentions that the advance payment as specified in the guidelines will be provided, but it was not provided accordingly (Basis:1&2).	The agreement mentions the provision of advance payment as specified in the guidelines and it was provided accordingly (Basis:1 &2)	1. JUIS-Municipality Agreement 2. Advance Payment Details/Bill	15	18
Municipality provides orientation to WUAs	The municipality has not provided orientation on the	The municipality has provided orientation to the concerned persons	The municipality has provided orientation to the concerned persons	1. Municipality documents/costs (Orientation Report)	10	20

Subject-wise indicator	Results			Basis of Validation	Weightage, %	Source: Article of the guideline
	Weak	Fair	Good			
	project to the concerned person as specified in the guidelines (no basis required)	regarding the project as specified in the guidelines, but there is no report on it (no basis required).	regarding the project as specified in the guidelines and prepared a report on the same (Basis:1)			
Monitoring by the Municipal Monitoring Committee before final bill payment	No monitoring by the Municipal Monitoring Committee before final bill payment (no basis required)	Monitoring was carried out by the Municipal Monitoring Committee before the final bill payment, but there is no report (Basis: 1)	The municipality monitoring committee conducted monitoring and prepared a report before the final bill payment (Basis: 1& 2).	1. Final Bill Document 2. Monitoring Report Attached to the Bill (Schedule-7)	10	19
Assessment Subject - 5: Technical Evaluation, Payment and Settlement						
Details of the measurements taken by the municipality for each payment are recorded in the municipality's measurement book.	Measurement details not submitted with the bill (no basis required)	A document containing the details of the measurement was submitted along with the bill but was not entered in the LG'S measurement book (Basis: 1)	A measurement book containing survey details has been submitted along with the bill (Basis:1)	1. Survey details/survey book attached to the bill submitted to the municipality	100	25
Assessment Subject - 6: Transparency and Good Governance						
Hoarding boards, public hearings, public reviews and public audit	No provision was fulfilled (Basis: 1 to 4)	Only up to 3 provisions have been fulfilled (Basis: 1 to 4)	All provisions have been fulfilled (Basic:1 to 4)	(Bases with points) 1. Hoarding board placed in a visible place - 20 2. Public hearing minutes - 30 3. Public review minutes - 20 4. Public audit minute- 30 Total - 100	100	32, 33, 34, 35
Assessment Subject - 7: Support in Federal State Building						
Coordination with other agencies regarding small irrigation	Budget management is done only by the LGs (Basis 1)	Joint budget management by the LGs and the province or federal government (Basis: 1)	Joint budget management by the LG, Province and Federal government (Basis: 1)	1. Detailed study report or annual approved budget and program	100	36

Table 3. SIG Weighted Score Calculation from the Individual Indicator Score

Assessment area		Weightage ratio	Total scheme number	Score obtained						
SN	Subject heading			Scheme 1	Scheme 2	Scheme 3	Scheme ...	Total	Average	Weighted average
A	B	C	D	E	F	G	H	I	J	K
-	-	-	-	From project-specific indicators				E+F+..	I/D	JxC/100
1	Project selection and budget management	15								
2	Institutional work, duties and rights	15								
3	Formation and operation of WUAs	15								
4	Project implementation and management	20								
5	Technical evaluation, payment and settlement	10								
6	Transparency and good governance	15								
7	Support in Federal State Building	10								
	Total	100								

Table 4. SIG Effectiveness Rating

Score (weighted average)	Effectiveness	Definition/Remarks
0 to 40	Low Effective	Indicates poor functionality or weak institutional performance for SIG compliance; corrective action required.
41 to 60	Moderately Effective	Reflects partial functionality and progress on SIG compliance; targeted capacity strengthening needed.
61 to 80	Effective	Indicates functional and reasonably performing institutions for SIG compliance; minor improvements could enhance sustainability.
81 to 100	Highly Effective	Denotes well-functioning, efficient, and sustainable systems achieving expected outcomes for SIG compliance.

6.4 Time Frame

The data collection for the SIG assessment survey commenced on 17 July 2025 and was successfully completed on 8 August 2025, slightly beyond the initially planned date of 25 July. The extended period allowed for more comprehensive data gathering and coordination with Local Governments, ensuring the quality and completeness of the information collected. A detailed timeline of the SIG assessment survey activities is presented in **Annex 1**.

7. Findings of the study

Data for the assessment were collected using the mWater/Solstice application and analyzed based on the monitoring indicators outlined in Section 6.3 and Table 2. The survey assessed the implementation status of SIG across 78 irrigation schemes, evaluating compliance according to the seven thematic subjects.

For each Local Government, an overall ranking was determined by averaging the scores of all surveyed schemes within that LG, providing a comprehensive overview of SIG implementation and effectiveness at the local level.

7.1 Findings of assessment at scheme level

Among the 78 irrigation schemes surveyed, 75 were implemented under SIP support, while 3 schemes were independently developed by Local Governments using their own funding. Scores were assigned to each scheme based on the indicators across the seven thematic subjects outlined in Section 6.3.

The findings, assessment, and analysis of all 78 schemes-based on the scores allocated to individual indicators within the seven subjects-are summarized below. A detailed score sheet for each scheme is provided in **Annex 4**.

7.1.1 Project Selection & Budget Management

Among the 78 schemes assessed, the performance on the project selection and budget management indicator shows a relatively positive result. A total of 32 schemes (41%) achieved a full score of 100, while 40 schemes (51%) scored between 60 and 80, and only 6 schemes (7%) scored below 60. Although the overall result can be considered satisfactory, it falls short of expectations, highlighting the need for stronger documentation practices during the project selection process, and stricter adherence to the criteria set out in SIG.

7.1.2 Institutional Work, Duties & Rights

The result of assessment of indicator on institutional work, duties, and rights within WUAs shows considerable gaps in compliance. A total of 54 schemes (69%) scored zero, reflecting the absence of renewal processes and irrigation service fee collection. Only one scheme demonstrated strong performance with a score of 100, while 8 schemes scored between 50 and 70, and 15 schemes fell within the 20- 40 range. This indicates that most schemes are not meeting the fundamental institutional requirements, raising concerns about the effectiveness, accountability and sustainability of WUAs.

7.1.3 Formation & Operation of water users association

The assessment result of the indicator on formation and operation of Water Users' Associations shows that, 77 schemes (98%) achieved a full score of 100, while only 1 scheme scored 50. This indicates that, compliance with this indicator has been almost fully achieved. This indicator checks the compliance of women participation in WUA committee (according to SIG) along with at least one woman in leadership position.

7.1.4 Project Implementation & Management

The assessment result of the indicator on project implementation and management shows that 30 schemes (38%) achieved a full score of 100, while 38 schemes (48%) scored within

the range of 80–95, and the remaining 10 schemes (13%) fell within the 50–75 range. The compliance parameters for this indicator include construction implementation method, public participation, upfront cash collection, advance payment to WUAs, orientation to WUAs, and monitoring of schemes by local government personnel prior to final bill payment. Overall, the result reflects a moderate level of compliance, highlighting the need for improved practices to fully meet the compliance.

7.1.5 Technical Evaluation, Payment & Settlement

The assessment result of indicator on the technical evaluation, payment, and settlement process highlights both strengths and areas needing improvement. More than half of the schemes (56%) demonstrated strong compliance by fully adhering to payment procedures, including bill collection from the WUA and updating the Local Government's measurement book. This indicates that LGs are carefully working to meet the compliance of SIG on this indicator so that WUA of 56% submitted bill and measurement book. However, 38% of schemes only partially complied, scoring 50, which suggests gaps in consistently following the required processes. Presence of 4 schemes (5%) with zero score each further points to critical lapses in financial management and documentation. Overall, while the majority of schemes are performing well, the result underlines the need for greater monitoring and capacity support to ensure that all schemes consistently follow transparent and accountable payment procedures.

7.1.6 Transparency & Good Governance

The assessment of the indicator on transparency and good governance reveals a generally strong performance across irrigation schemes. A majority, 50 schemes (64%), achieved a full score of 100, reflecting outstanding compliance with key governance practices such as maintaining hoarding boards, conducting public hearings, public reviews, and public audits. This demonstrates that most schemes are effectively ensuring accountability and transparency and complying SIG. At the same time, 26 schemes (33%) fell into a moderate category with a score of 50, suggesting partial compliance and highlighting areas where transparency mechanisms were weak. Notably, 2 schemes (2.5%) scored zero, indicating a complete absence of the required governance measures. These results suggest that, while the overall result is positive, there remain critical gaps in certain schemes.

7.1.7 Support in Federal State Building

The assessment of the indicator on support in building federal state reveals a strong overall performance. This indicator shows the financial contribution of three spheres of government (Federal government, Provincial government and Local government) in implementation of irrigation scheme, which support in federal state building.

A large majority of schemes, 75 out of 78 (96%) achieved full score with proportionate financial contribution, indicating that most schemes have complied well with the parameters under this indicator. However, there are still a few gaps: 3 schemes (4%) failed to meet the compliance requirements, scoring zero, those schemes are non-SIP scheme. There is no financial contribution of province and federal government in implementation of those irrigation scheme. This result indicates that, LGs are committed to comply with the indicator; however, there is still a need to fill gaps of noncompliance.

The overall assessment of the 78 irrigation schemes shows a mixed but generally positive results across the seven assessment indicators. Strong compliance was observed in the indicators "Formation and Operation of WUAs" (98% schemes achieved full score) and "Support in Federal State Building" (96% schemes achieved full score), while good progress was also seen in indicators "Transparency and Good Governance" (64% scheme achieved full score) and "Technical Assessment, Payment, and Settlement" (56% scheme achieved full score). Moderate results were recorded in "Project Implementation and Management", where most schemes scored between 80 and 95, and in "Project Selection and Budget

Management", where more than half of the schemes achieved only mid-range scores. The weakest area was "Institutional Work, Duties, and Rights", with 69% of schemes scoring zero due to poor renewal processes and weak irrigation fee collection practices. Overall, while compliance is strong in three indicators i.e., "WUA Formation and Operation", "Support in Federal State Building" as well as "Transparency and Good Governance", significant gaps remain to meet the compliance of SIG in strengthening "Institutional Work, Duties and Rights" (renewal of WUA, Irrigation service collection practice from users, financial documentation) and "Project Implementation and Management").

7.2 Findings of assessment at LG level

In the survey, SIG compliance of 78 irrigation schemes in seven subjects was assessed and average score of all schemes in each LG was determined. **Table 5** presents score detail of LGs against indicators in seven subjects. **Table 5-a** summarizes the result of **Table 5** and thus shows the number of LGs receiving given range of scores in each subject. **Table 6** represents summary of results of LGs according to score and its effectiveness criteria.

Table 5: Local Government-wise Score of SIG Assessment Survey

S.N.	Name of Local Government	# Of Schemes	Scheme selection and budget management (15)	Institutional roles & responsibility (15)	WUA Formation & Operation (15)	Scheme Implementation and Management (20)	Technical Evaluation and Payment (10)	Transparency and Governance (15)	Support in Federal State Building (10)	Total (100)
1	Arun Rural Municipality	4	7.5	0.0	15.0	15.3	5.0	5.7	7.5	55.9
2	Chaubise Rural Municipality	4	7.5	0.0	15.0	14.4	5.0	7.5	7.5	56.9
3	Chaudandigadhi Municipality	4	15.0	1.9	15.0	20.0	10.0	15.0	10.0	86.9
4	Chhathar Rural Municipality	4	9.0	6.0	15.0	16.0	5.0	9.4	10.0	70.4
5	Chishankhu Gadhi Rural Municipality	4	9.0	0.8	15.0	19.0	5.0	15.0	10.0	73.8
6	Dhankuta Municipality	4	9.0	3.0	15.0	14.5	5.0	11.3	10.0	67.8
7	Falgunanda Rural Municipality	4	15.0	7.9	15.0	17.0	8.8	13.2	10.0	86.8
8	Ilam Municipality	4	14.3	8.7	15.0	20.0	10.0	15.0	10.0	92.9
9	Jante Dhunga Rural Municipality	4	10.5	0.0	15.0	20.0	5.0	11.3	10.0	71.8
10	Katari Municipality	4	15.0	0.8	15.0	20.0	8.8	15.0	10.0	84.5
11	Manebhanjyang Rural Municipality	4	9.0	0.0	15.0	17.4	7.5	9.4	7.5	65.8
12	Phidim Municipality	4	13.5	3.4	15.0	20.0	10.0	15.0	10.0	86.9
13	Rautamai Rural Municipality	4	15.0	0.0	15.0	18.8	10.0	7.5	10.0	76.3
14	Sahidbhumi Rural Municipality	4	9.0	0.0	15.0	16.0	5.0	7.5	10.0	62.5
15	Sakela Rural Municipality	3	9.0	0.0	15.0	18.0	8.4	10.0	10.0	70.4
16	Sandakpur Rural Municipality	4	15.0	4.5	15.0	18.7	10.0	15.0	10.0	88.2
17	Siddhicharan Municipality	4	13.5	1.5	15.0	19.0	10.0	15.0	10.0	84.0
18	Sunkoshi Rural Municipality	4	9.0	0.0	15.0	19.0	10.0	15.0	10.0	78.0
19	Suryodaya Municipality	4	3.0	0.0	13.2	20.0	10.0	15.0	10.0	71.2
20	Udayapurgadhi Rural Municipality	3	15.0	0.0	15.0	20.0	1.7	15.0	10.0	76.7

Table 5-a. Summary of Subject-wise Scoring of LGs

SN	Thematic Assessment Area/Subject	Weightage	Number of LGs Receiving % Score			
			0 - 40	40 - 60	60 - 80	> 80
1	Project selection and budget management	15	1	9	1	9
2	Institutional work, duties and rights	15	18	2	0	0
3	Formation and operation of WUAs	15	0	0	0	20
4	Project implementation and management	20	0	0	5	15
5	Technical evaluation, payment and settlement	10	1	7	1	11
6	Transparency and good governance	15	1	3	5	11
7	Support in Federal State Building	10	0	0	3	17
	Overall (Across all seven-subject combined)	100	0	2	11	7

Table 6: SIG Implementation Effectiveness Measurement Result

Score (weighted average)	Effectiveness	Number of Local Government
0 to 40	Low Effective	0
41 to 60	Moderately Effective	2
61 to 80	Effective	11
81 to 100	Highly Effective	7

8. Analysis and Discussion

The SIG assessment survey, covering 20 LGs and 78 irrigation schemes, reveals an overall positive level of compliance with SIG requirements at the scheme level. The findings highlight several strong achievements, alongside critical areas requiring improvement.

Strong Performance Areas:

Significant achievements were noted in the following areas:

- **Formation and Operation of WUAs:** 98% of schemes achieved full scores, demonstrating strong community organization and participation.
- **Support in Federal State Building:** 96% of schemes scored full, indicating active engagement of LGs in strengthening federal governance processes.
- **Transparency and Good Governance:** 64% of schemes achieved full scores, reflecting commendable practices in public accountability and openness.
- **Technical Evaluation, Payment, and Settlement:** 56% of schemes performed fully in ensuring procedural and technical compliance.

However, Institutional Roles, Duties, and Rights emerged as the weakest area, with 69% of schemes scoring zero. This underscore persistent challenges related to WUA renewal and irrigation service fee collection, both of which are critical to institutional resilience and the long-term sustainability of irrigation systems.

Performance at the LG level (Refer below Figure 2):

- **Highly Effective LGs (35%)** – Seven LGs scored above 81, demonstrating strong performance across all five key indicators: WUA Formation and Operation, Scheme

Implementation and Management, Transparency and Good Governance, Support in Federal State Building, and Technical Assessment, Payment, and Settlement. These include Chaudandigadhi Municipality, Phalgunanada Rural Municipality, Ilam Municipality, Katari Municipality, Phidim Municipality, Sandakpur Municipality, and Siddhicharan Municipality.

- **Effective LGs (55%)** – Eleven LGs scored between 60–80, showing relatively strong performance in WUA Formation and Operation and Scheme Implementation and Management, but weaker results in Institutional Roles, Duties, and Rights, Transparency and Good Governance, Technical Assessment and Payment, and Scheme Selection and Budget Management. These include Chhatar RM, Chishankhugadhi RM, Dhankuta Municipality, Jantedhunga RM, Manebhanjyang RM, Rautamai RM, Sahidbhumi RM, Sakela RM, Sunkoshi RM, Suryodaya Municipality, and Udayapurgadhi RM.
- **Moderately Effective LGs (10%)** – Two LGs, Arun RM and Chaubise RM, scored between 40–60, indicating moderate effectiveness. Their weaker areas include Institutional Roles, Duties, and Rights, Technical Assessment and Payment, Support for Implementing Federalism, and Scheme Selection and Budgeting, while maintaining relatively good performance in WUA Formation and Operation and Scheme Implementation and Management.

Key Compliance Gaps:

Among the 13 LGs classified as effective or moderately effective, institutional capacity gaps were observed in:

- Timely renewal of WUAs and collection of irrigation service fees;
- Technical assessment and payment processes, particularly in the proper preparation and submission of measurement books and bills;
- Transparency and governance practices, including regular public hearings, audits, and the display of scheme information through hoarding boards;
- Scheme selection and budgeting processes, which need closer alignment with SIG provisions and guidelines.

Overall, the assessment demonstrates encouraging progress in SIG implementation at both scheme and LG levels. Nevertheless, the identified institutional and procedural gaps must be addressed to ensure full compliance, enhanced accountability, and sustainable operation of small irrigation schemes under the SIG framework.

Small Irrigation Guidelines Implementation Status

Legend For Thematic Indicators

- Scheme Selection and Budget Management
- Roles and Responsibilities of Entities
- Formation and Operation of WUA
- Scheme Implementation and Management
- Technical Evaluation and Completion
- Transparency and Governance
- Coordination and Cooperation
- Total

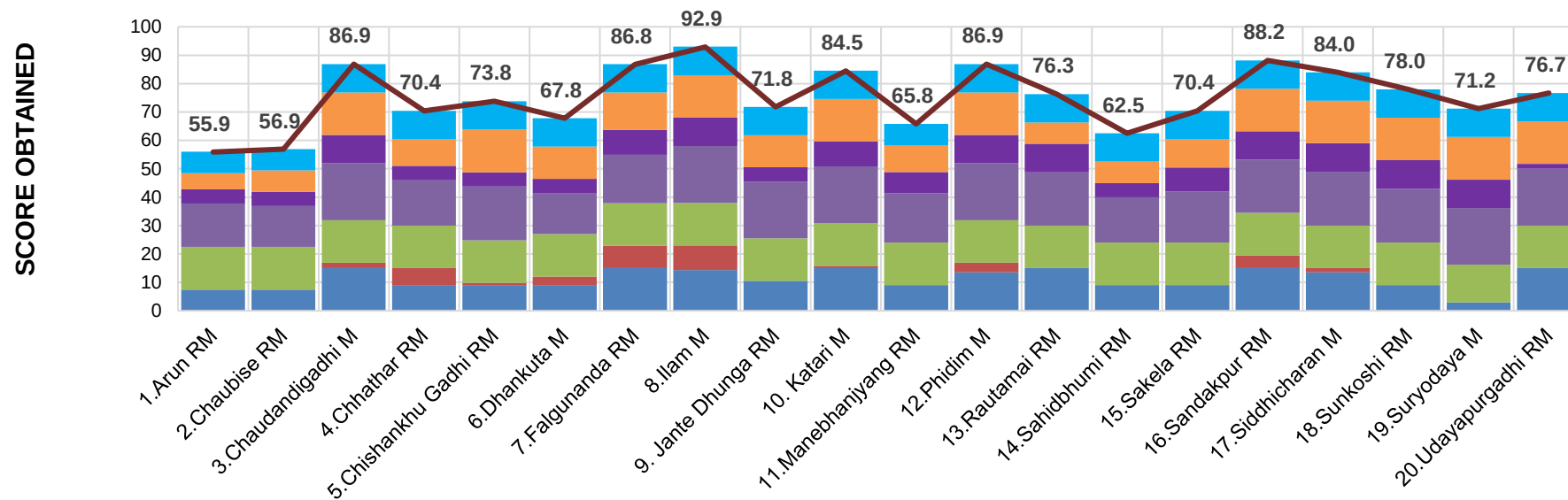


Figure 2: Local Government wise average score on seven subject wise indicators

9. Conclusion

The assessment of the implementation and compliance of the Small Irrigation Guidelines (SIG) by Local Governments in Koshi Province reveals a generally encouraging level of adoption, reflecting the growing institutional commitment to systematic and transparent management of small irrigation schemes. The study, covering 20 Local Governments and 78 irrigation schemes, indicates that the SIG has been well internalized as a guiding framework for planning, implementation, and management, though the depth of compliance varies across indicators and local governments.

Strong performance was observed in the areas of WUA formation and operation, support in federal state building, transparency and good governance, and technical evaluation and payment processes. These results demonstrate that the majority of Local Governments are increasingly aligning with SIG principles in promoting participatory governance, coordination across three spheres of government, and accountability in project execution.

However, the assessment also highlights persistent gaps in institutional roles, duties, and rights, particularly regarding the renewal of Water Users' Associations and regular collection of irrigation service fees. These weaknesses pose risks to the long-term sustainability and self-reliance of irrigation systems. Additionally, improvements are needed in scheme selection, documentation, and technical validation, ensuring that processes fully comply with the provisions of the SIG.

Overall, while 35% of Local Governments demonstrated highly effective performance and 55% were found effective, the remaining 10% were moderately effective. No Local Government fell in the low-effectiveness category, indicating a positive trend in SIG mainstreaming. Going forward, continuous capacity enhancement of LGs and WUAs, institutionalization of monitoring mechanisms, and stronger inter-governmental coordination will be crucial to achieve full compliance and ensure the sustainable management of small irrigation systems across Koshi Province.

10. Recommendation

Based on the assessment findings, the following recommendations are proposed for Local Governments that performed at effective and moderately effective levels. These actions aim to strengthen compliance with the Small Irrigation Guidelines (SIG), enhance institutional functionality, and promote sustainability of small irrigation systems.

A. Strategic Level

- **Strengthen Institutional Capacity and Leadership:** Build sustained institutional capacity of LGs and WUAs through regular training, mentoring, and technical backstopping, emphasizing accountability, documentation, and irrigation governance.
- **Promote Inter-Governmental Coordination:** Foster stronger coordination and collaboration among the federal, provincial, and local spheres of government to align planning, budgeting, and resource mobilization for small irrigation development.
- **Institutionalize Monitoring and Learning:** Establish a province level SIG compliance monitoring and learning system to capture good practices, identify gaps, and guide continuous improvement.

B. Policy Level

- **Enforce WUA Renewal and Fee Collection:** Institutionalize mandatory annual renewal of WUAs and systematic collection of irrigation service fees through municipal bylaws and planning guidelines.

- **Strengthen Compliance Requirements:** Incorporate SIG compliance indicators into municipal performance assessment and resource allocation frameworks to ensure adherence and accountability.
- **Promote Transparency and Governance Standards:** Mandate public audits, public hearings, and hoarding board displays for all irrigation schemes as prerequisites for final payment approval.

C. Programmatic Level

- **Improve Scheme Selection and Documentation:** Ensure all schemes follow the SIG-defined process based on farmer demand, technical feasibility, and prioritization and maintain proper records for audit and verification.
- **Enhance Technical and Financial Processes:** Require complete measurement books, verified bills, and monitoring reports before payment disbursement; conduct periodic internal audits of scheme implementation.
- **Support WUA-Led Implementation:** Prioritize WUA-led construction for small-scale schemes within SIG thresholds, accompanied by orientation, upfront maintenance fund collection, and on-site monitoring.
- **Facilitate Peer Learning:** Encourage lower-performing LGs to learn from highly effective municipalities through exposure visits and knowledge exchange on SIG implementation practices.

The above recommendations emphasize that improving institutional accountability, policy enforcement, and operational efficiency will enable all Local Governments to achieve higher compliance and move toward “Highly Effective” performance. Strengthened institutional culture and continuous learning are essential to sustain the results and ensure long-term functionality of small irrigation systems across Koshi Province.

Annexes:

Annex 1. Timeline of SIG assessment survey

S.N.	Activity	Details/Description	Responsible	Deadline	Remarks /Notes
1	Preparation of SIG Assessment Indicators	Develop assessment indicators aligned with the provisions of the Small Irrigation Guidelines	PMISC Program Team	25 th April 2025	Indicators prepared in accordance with SIG requirements
2	Drafting of Assessment Questionnaires	Prepare draft questionnaires for SIG implementation assessment	PMISC Program Team	15 th June 2025	To align with SIG indicators and assessment objectives
3	Finalization of Questionnaires	Incorporate feedback and finalize questionnaires	PMISC Program Team	20 th June 2025	Final version to be uploaded to Solstice
4	Upload of Questionnaires in Solstice	Upload finalized tools to Solstice system for field use	PMISC Program Team	22 nd June 2025	Ensure functionality and access for cluster teams
5	Selection of LGs for Assessment	Identify 5 LGs (4 from each cluster) for SIG assessment	Cluster Coordinators	20 th June 2025	Selection based on SIG publication status
6	Selection of Sample Schemes	2 SIP and 2 non-SIP schemes per cluster per selected LG; if non-SIP not available, increase SIP samples accordingly	Cluster Coordinators, LG representatives	25 th June 2025	Sampling after confirmation of SIG publication, To confirm the available non-SIP schemes.
7	Orientation to Assessment Team	Orientation on importance/objectives, methodology, tools, and responsibilities	PMISC Program Team	7 th July 2025 (Monday)	Ensure participation of Cluster Coordinators, Irrigation Engineers and relevant Technical Officers
8	PIC Meeting / Meeting on SIG Assessment at LGs	Discuss objectives, procedures, roles, and timeline with LG officials and PIC members	Cluster Coordinators, LGs, PMISC	By 15 th July 2025	Clarify expectations and ensure LG ownership
9	Data Collection (Testing in one LG from each cluster)	Conduct data collection at selected schemes (SIP and non-SIP)	Cluster Coordinators, IEs, PMISC	10 th to 15 th July 2025	Monitor quality and adherence to timeline

S.N.	Activity	Details/Description	Responsible	Deadline	Remarks /Notes
10	Revision of Questionnaire	Finalization of Questionnaire on the basis of test assessment feedback from cluster	PMISC	16 th July, 2025	Finalize questionnaire according to Test survey
11	Data collection	Conduct data collection at selected schemes (SIP and non-SIP)	Cluster Coordinators, IEs, PMISC	17 th -25 th July, 2025	Monitor quality and adherence to timeline
12	Data Compilation and Quality Checks	Compile, clean, and verify data for consistency	PMISC M&E Team	By 25 th July 2025	Address gaps before analysis
13	Data Analysis	Analyze field data in line with SIG assessment framework	PMISC Program Team	26 th to 30 th July 2025	Ensure alignment with SIG indicators
14	Draft Assessment Report Preparation	Prepare draft report highlighting key findings, gaps, and recommendations	PMISC Program Team	7 th August 2025	Circulate for internal review
14	Finalization of Assessment Report	Incorporate feedback and submit final report to SDC for review	PMISC Program Team	15 th August 2025	To finalize report incorporating SDC's feedback.

Annex 2. List of Sample schemes and LGs

S. N.	Local Government Name	District	Cluster	Scheme Code	Scheme Name	Fiscal Year	Implementing Agency
1	Siddhicharan Municipality	Okhaldhunga	Okhaldhunga	10402SI106	Adheri Khola Muhan Bote IP	2080-81	SIP
2	Siddhicharan Municipality	Okhaldhunga	Okhaldhunga	10402SI110	Pokting Taksar Bigutar IP	2080-81	SIP
3	Siddhicharan Municipality	Okhaldhunga	Okhaldhunga	10402SI111	Thulo khola IP	2080-81	SIP
4	Siddhicharan Municipality	Okhaldhunga	Okhaldhunga	10402SI102	Dochekeo IP	2080-81	SIP
5	Chishankhu Gadhi Rural Municipality	Okhaldhunga	Okhaldhunga	10401SI046	Kerabari Irrigation Project	2080-81	SIP
6	Chishankhu Gadhi Rural Municipality	Okhaldhunga	Okhaldhunga	10401SI048	Sernakhola Muhan Chauke Bagaicha IP	2080-81	SIP
7	Chishankhu Gadhi Rural Municipality	Okhaldhunga	Okhaldhunga	10401SI051	Lalu Khahare IP	2080-81	SIP
8	Chishankhu Gadhi Rural Municipality	Okhaldhunga	Okhaldhunga	10401SI054	Simle pani Bhadaure IP	2079-80	SIP
9	Sunkoshi Rural Municipality	Okhaldhunga	Okhaldhunga	10407SI080	Chyanam Khola Muhan Gari Joge hudai Saune Pani Kamal pokhari sinchai yojana	2080-81	SIP
10	Sunkoshi Rural Municipality	Okhaldhunga	Okhaldhunga	10407SI057	Dhad Khola Muhan gari Riththebote IP	2080-81	SIP
11	Sunkoshi Rural Municipality	Okhaldhunga	Okhaldhunga	10407SI058	Mulkhet muhan gari Halede IP	2080-81	SIP
12	Sunkoshi Rural Municipality	Okhaldhunga	Okhaldhunga	10407SI015	Hawan kulo sinchai yojana	2080-81	SIP
13	Sakela Rural Municipality	Khotang	Okhaldhunga	10506SI057	Gunthale vir IP	2080-81	SIP
14	Sakela Rural Municipality	Khotang	Okhaldhunga	10506SI059	Bhulbhule IP	2080-81	SIP
15	Sakela Rural Municipality	Khotang	Okhaldhunga	10506SI031	Batase dobhan IP	2080-82	SIP
16	Manebhanjyang Rural Municipality	Okhaldhunga	Okhaldhunga	10408SI030	Laphe IP	2080-81	SIP
17	Manebhanjyang Rural Municipality	Okhaldhunga	Okhaldhunga	10408SI039	Dhyaplu pangkhukhola sichai kulo marmat yojana	2080-81	Local Government

S. N.	Local Government Name	District	Cluster	Scheme Code	Scheme Name	Fiscal Year	Implementing Agency
18	Manebhanjyang Rural Municipality	Okhaldhunga	Okhaldhunga	10408SI042	Kyauri IP	2080-81	SIP
19	Manebhanjyang Rural Municipality	Okhaldhunga	Okhaldhunga	10408SI043	Molung khola mate thulibesi banakhu IP	2080-81	SIP
20	Suryodaya Municipality	Ilam	Fikkal	11009SI033	Majhuwa Khola Saatghare IP	2080-81	SIP
21	Suryodaya Municipality	Ilam	Fikkal	11009SI060	Khalde Besi IP	2080-81	SIP
22	Suryodaya Municipality	Ilam	Fikkal	11009SI019	Kerabari sichai aayojana	2080-81	SIP
23	Suryodaya Municipality	Ilam	Fikkal	11009SI058	Kalikhola Jil IP	2080-81	SIP
24	Ilam Municipality	Ilam	Fikkal	11003SI023	Maalbase deki bhir gaun hudai tersogaun aaoune Irrigation Project	2080-81	SIP
25	Ilam Municipality	Ilam	Fikkal	11003SI050	Jhutre Jyamire IP	2080-81	SIP
26	Ilam Municipality	Ilam	Fikkal	11003SI084	Lingsuwa Ratey IP	2080-81	SIP
27	Ilam Municipality	Ilam	Fikkal	11003SI080	Bhutekhola Akhane Sinchai Yojana	2080-81	SIP
28	Sandakpur Rural Municipality	Ilam	Fikkal	11002SI025	Tin Dovane Bhitte Sichai	2080-81	SIP
29	Sandakpur Rural Municipality	Ilam	Fikkal	11002SI024	Sanimaai Alingdada Chukdaal Sichai Yojana	2080-81	SIP
30	Sandakpur Rural Municipality	Ilam	Fikkal	11002SI032	Kali Khola Sichai	2080-81	SIP
31	Sandakpur Rural Municipality	Ilam	Fikkal	11002SI030	Jirekhola Hittidhara Luringtar Sichai	2080-81	SIP
32	Phidim Municipality	Pachthar	Fikkal	10904SI008	Wasum Talloohattii Khetghari IP	2080-81	SIP
33	Phidim Municipality	Pachthar	Fikkal	10904SI010	Lamakhola Salleri Banjhogaraa Kulo IP	2080-81	SIP
34	Phidim Municipality	Pachthar	Fikkal	10904SI018	Hokma Khola Sidinglama Samdin IP	2080-81	SIP
35	Phidim Municipality	Pachthar	Fikkal	10904SI012	Ithungkhola Ghalegaun Tamakhe IP	2079-80	SIP
36	Phalgunanda Rural Municipality	Pachthar	Fikkal	10905SI014	Jujjikay Muhan Khamnegra Kulo	2080-81	SIP
37	Phalgunanda Rural Municipality	Pachthar	Fikkal	10905SI019	Puchhar Kulo IP	2080-81	SIP
38	Phalgunanda Rural Municipality	Pachthar	Fikkal	10905SI030	Dhanbirey Kulo	2080-81	SIP
39	Phalgunanda Rural Municipality	Pachthar	Fikkal	10905SI035	Syangba Khola IP	2079-80	SIP
40	Jantedhunga Rural Municipality	Khotang	Udayapur	10509SI026	Bukatuwa Roham Kulo	2080-81	SIP
41	Jantedhunga Rural Municipality	Khotang	Udayapur	10509SI035	Kavre Khola Dummi Bote Kulo	2080-81	SIP
42	Jantedhunga Rural Municipality	Khotang	Udayapur	10509SI064	Pande Bagar Chanaute Besi Kulo	2080-81	SIP

S. N.	Local Government Name	District	Cluster	Scheme Code	Scheme Name	Fiscal Year	Implementing Agency
43	Jantedhunga Rural Municipality	Khotang	Udayapur	10509SI065	Chhote Khola Bohare Kulo	2080-81	SIP
44	Chaudandigadhi Municipality	Udaypur	Udayapur	11402SI038	Matekhadi Sinchai Tatha Kulo	2080-81	SIP
45	Chaudandigadhi Municipality	Udaypur	Udayapur	11402SI016	Eghara Ghare Sinchai	2080-81	SIP
46	Chaudandigadhi Municipality	Udaypur	Udayapur	11402SI051	Khurkhure Sana Sinchai	2080-81	SIP
47	Chaudandigadhi Municipality	Udaypur	Udayapur	11402SI043	Bhaluwa Dobhan Sana Sinchai	2080-81	SIP
48	Rautamai Rural Municipality	Udaypur	Udayapur	11404SI059	Rakulo Tallo Ruwala Kulo	2080-81	SIP
49	Rautamai Rural Municipality	Udaypur	Udayapur	11404SI021	Rasuwa Dobhan Tallo Manke Rakse Dadh Kulo	2080-81	SIP
50	Rautamai Rural Municipality	Udaypur	Udayapur	11404SI062	Kunai Pokhari Kanle Kurla Sinchai	2080-81	SIP
51	Rautamai Rural Municipality	Udaypur	Udayapur	11404SI037	Watima Dude Sinchai	2080-81	SIP
52	Katari Municipality	Udaypur	Udayapur	11407SI051	Dhamile Gardhane Sinchai	2080-81	SIP
53	Katari Municipality	Udaypur	Udayapur	11407SI044	Tin Rale Bich Kulo Hudai Simal Gachhi Sinchai	2080-81	SIP
54	Katari Municipality	Udaypur	Udayapur	11407SI049	Dhappar Sinchai	2080-81	SIP
55	Katari Municipality	Udaypur	Udayapur	11407SI045	Chuwabote Sinchai	2080-81	SIP
56	Udayapurgadhi Rural Municipality	Udaypur	Udayapur	11408SI044	Thaliyatar Mul Kulo Sinchai	2080-81	SIP
57	Udayapurgadhi Rural Municipality	Udaypur	Udayapur	11407SI072	Teltele Khola Muhan Gari Ranabal Sinchai	2080-81	SIP
58	Udayapurgadhi Rural Municipality	Udaypur	Udayapur	11407SI038	Bakuwa Khola muhan Gari Simle Titribot Sinchai	2080-81	SIP
59	Dhankuta Municipality	Dhankuta	Dhankuta	10704SI032	Gokundeswor Khola Chhotitol IP	2080-81	SIP
60	Dhankuta Municipality	Dhankuta	Dhankuta	10704SI036	Najhase Bagar IP	2080-81	SIP
61	Dhankuta Municipality	Dhankuta	Dhankuta	10704SI043	Barrabote Kulo IP	2080-81	SIP
62	Dhankuta Municipality	Dhankuta	Dhankuta	10704SI046	Majh kulo IP	2080-81	SIP
63	Chaubise Rural Municipality	Dhankuta	Dhankuta	10707SI008	Namfuwa Khola Sirwani Sichai Kulo	2080-81	Local Government
64	Chaubise Rural Municipality	Dhankuta	Dhankuta	10707SI033	Goguney Basantey IP	2080-81	SIP
65	Chaubise Rural Municipality	Dhankuta	Dhankuta	10707SI034	Charuwa Khola Sisney Mathillo Kulo IP	2080-81	SIP
66	Chaubise Rural Municipality	Dhankuta	Dhankuta	10707SI036	Charuwa Khola Chiuribot Kulo IP	2080-81	SIP

S. N.	Local Government Name	District	Cluster	Scheme Code	Scheme Name	Fiscal Year	Implementing Agency
67	Sahidbhumi Rural Municipality	Dhankuta	Dhankuta	10705SI002	Karkale IP Hulaki	2080-81	SIP
68	Sahidbhumi Rural Municipality	Dhankuta	Dhankuta	10705SI009	Beteni Kulo Sana Sinchai	2080-81	SIP
69	Sahidbhumi Rural Municipality	Dhankuta	Dhankuta	10705SI011	Battise Kulo Sana Sichai	2080-81	SIP
70	Sahidbhumi Rural Municipality	Dhankuta	Dhankuta	10705SI015	Mangshuwa Khola Mangshuwatar kulo Ip	2080-81	SIP
71	Arun Rural Municipality	Bhojpur	Dhankuta	10605SI001	Tallo Gau Irrigation Pond IP	2080-81	Local Government
72	Arun Rural Municipality	Bhojpur	Dhankuta	10605SI015	Sapakhola Dovan Aashpash Chhetra IP	2080-81	SIP
73	Arun Rural Municipality	Bhojpur	Dhankuta	10605SI016	Kole Syaledada Rakse Kulo IP	2080-81	SIP
74	Arun Rural Municipality	Bhojpur	Dhankuta	10605SI020	Suntalung Kulo IP	2080-81	SIP
75	Chhathar Rural Municipality	Terathum	Dhankuta	10806SI001	Mul kulo IP	2080-81	SIP
76	Chhathar Rural Municipality	Terathum	Dhankuta	10806SI004	Nake Danda IP	2080-81	SIP
77	Chhathar Rural Municipality	Terathum	Dhankuta	10806SI022	Kirte Dumre IP	2080-81	SIP
78	Chhathar Rural Municipality	Terathum	Dhankuta	10806SI032	Phalate IP	2080-81	SIP

Annex 3. Questionnaire of the SIG Assessment Survey

S.N.	Monitoring Questionnaire	Answer	Question type
A	General information		
1	Monitoring date		Keep a calendar for the date.
2	Cluster/Institution Name	a. Dhankuta Cluster b. pale cluster c. Okhaldhunga Cluster d. Udaipur Cluster e. PMISC, Biratnagar	Drop down list (single choice)
3	Name of the Surveyor (on behalf of the Small Irrigation Project)		Drop down list (all SSO, program staff of PMISC, STO)
4	Surveyor's post (for small irrigation works)	a. Cluster Coordinator c. Senior Technical Officer (STO)	Drop down list (single choice)

S.N.	Monitoring Questionnaire	Answer	Question type
		c. Technical Officer (TO)	
		d. Irrigation Engineer (IE)	
		e. Planning and Monitoring Officer (PMO)	
		f) Others (PMSSS, SIE, MIS/GISS)	
5	Name of the surveyor (on behalf of the local government)		Manual Entry
6	Surveyor's position (on behalf of the local government)		Manual Entry
7	People met during the survey	a) Mayor / President of RM/Mum	Drop down list (Multiple choice)
		b) Deputy mayor/ Deputy president of Mun/RM	
		c) Chief Executive Officer	
		d) Chief of Planning section/Employee	
		e) Chief of Agriculture section /Employees	
		f) Chief of technical section /Employee	
		g) Chief of Accounting section / Employee	
8	Date the local government implemented the Small Irrigation Directive		Keep a calendar for the date.
B	Municipality details		
9	Province	7 provinces	Drop down list (single choice)
10	District	77 districts	Drop down list (single choice)
11	Municipality	753 municipalities	Drop down list (single choice)
12	Ward No		Drop down list (single choice)
13	Name of irrigation scheme		Drop down list (single choice)
14	Year of completion of irrigation scheme		
15	Total irrigated area (CCA) of irrigation projects, in hectares		
16	Households benefiting from irrigation projects		
17	Irrigation implementing agency	a) Under small irrigation projects	

S.N.	Monitoring Questionnaire	Answer	Question type
		a) Only through local government	Drop down list (single choice)
		c) Implemented by other Organization	
		d) Partnership between local government and other organizations	
18	Planning and Operating Procedures	a) Through the water user's Association	Drop down list (single choice)
		b) Through construction business and water user Association (both methods)	
		c) Through the construction business	
19	Total expenditure on irrigation projects (Rs.)		
C	Indicators for evaluating compliance or implementation of the Small Irrigation Project Operation Guidelines		
1	Assessment Topic Area-1: Project Selection and Budget Management	Aadhaar indicator (mark whether it is present or not)	
1.a)	Irrigated area of the project Bases 1. Detailed study report or annual approved budget and program	a) Irrigated area is more than 50 hectares (basis 1)	Drop down list (Single choice)
		b) The irrigated area is more than 50 hectares, but approval has been obtained from the province (basis 1)	
		c) Irrigated area is less than 50 hectares (basis 1)	
	Take a photo of the paper for Question No. 1 (a).		Photo
1.b)	Plan Request, Recommendation and Selection (Please mark only those that have been reviewed and approved by the document)	1. Farmer's plan request application	Drop down list (Multiple choice)
		2. Recommendation of ward or thematic committee	
		3. Prioritization report	
		4. Detailed study report	
		5. Annual approved budget and program	
	Take a photo of the farmer's plan application form available in Question No. 1 b).		Photo
	Take the recommended photos of the ward or thematic committee available in Question No. 1 b).		Photo
	Take a photo of the prioritization report available in Question No. 1 b).		Photo
	Take a photo of the detailed study report available in Question No. 1 b).		Photo

S.N.	Monitoring Questionnaire	Answer	Question type
	Take a photo of the annual approved budget and program available in Question No. 1 b).		Photo
1 c)	If there is anything more		Manual Entry
2	Assessment Topic Area-2: Institutional Functions, Duties, and Powers		
2.a)	Irrigation service fee Bases 1. Minute with details of the amount raised 2. Bank/cooperative voucher, minute of the amount mobilized	a) Fee not charged (no basis required) b) Fees levied but not regularly (monthly, annual, crop-wise or other) (Bases 1 and 2) c) Fees collected regularly (Bases 1 and 2)	Drop down list (Single choice)
2.b)	Institution Renewal Bases: 1. Mark the correct answer based on the certificate of institution registration/renewal	a) Institution not renewed (Aadhaar not required) b) Institution renewal is not regular (Base 1) c) The institution has been renewed regularly (annually) (Base 1)	Drop down list (Single choice)
	Take a photo of the paper for Question No. 2 (a) and 2 (b).		Photo
2 c)	If there is anything more		Manual Entry
3	Assessment Topic-3: Formation and Operation of Water users Association (WUA)		
3. a)	Status of women's representation in water user Association (WUAs) Bases 1. Bidhan of WUA 2. Name List of WUA committee	a) There is no representation of women in the WUA (basis: 1& 2) b) Provisions have been made in the Bidhan as specified in the guideline, but there is no representation of women accordingly (basis: 1 & 2) c) Provisions have been made in the statute as specified in the directive and women are represented accordingly (basis 1 and 2)	Drop down list (Single choice)
3.b)	One of the key positions (President, Secretary or Treasurer) is held by a female officeholder. Bases 1. Bidhan of WUA 2. Name List of WUA committee	a) There is no female office bearer in any of the key positions (basis: 1 and 2) b) There is provision in the statute as specified in the directive, but there are no female office bearers as per it (basis: 1 and 2) c) Provisions have been made in the statute as specified in the directive and accordingly, there are female office bearers in the institution (basis: 1 and 2)	Drop down list (Single choice)
	Take a photo of the paper for questions 3 (a) and 3 (b).		Photo
3 c)	If there is anything more		Manual Entry

S.N.	Monitoring Questionnaire	Answer	Question type
4	Assessment Area-4: Project Implementation and Management		
4.a)	Construction Execution Method Bases 1. Construction contract with the municipality – WUA 2. Construction contract with the LGs - Construction contractor	a) The construction and maintenance of the project, which was within the budget limit specified in the guidelines, was also carried out through contracts without any explanation (Basis: 2) b) Construction and maintenance work of the project within the amount limit specified in the guidelines was carried out through any project itself and any project contract without any explanation (Basis: 1 & 2) c) Construction and maintenance work of the project within the amount limit specified in the guidelines has been carried out through the agency (Basis 1)	Drop down list (Single choice)
4.b)	Public participation Bases 1. WUA - LG Agreement 2. Payment Details/Bill	a) The provision for public participation as specified in the guidelines is not included in the WUA -Municipality* agreement (Basis: 1) b) The agreement includes provisions for public participation as specified in the guidelines, but the public participation portion is not met when making payments (Basis: 1 & 2) c) The agreement contains provisions for public participation as specified in the guidelines and the payment has been made after deducting the public participation portion accordingly (Basis 1 & 2).	Drop down list (Multiple choice)
4 c)	Advance Maintenance Fund (Bases) 1. Minute of the meeting regarding the details of the amount withdrawn 2. Bank voucher showing the amount deposited	a) The agreement does not include a provision for a maintenance fund as specified in the guidelines (Basis:1) b) The maintenance amount as specified in the guidelines has been deposited but not withdrawn proportionately (Basis 1& 2) c) The maintenance amount as specified in the guidelines has been collected and deposited proportionally (Basis 1 & 2)	Drop down list (Single choice)
4. d)	Advance payment Bases 1. WUA-LG Agreement 2. Advance Payment Details/Bill	a) The agreement does not mention the provision of advance payment as specified in the guidelines (Basis: 1) b) The agreement mentions that the advance payment as specified in the guidelines will be provided, but it was not provided accordingly (Basis: 1 & 2) c) The agreement mentions the provision of advance payment as specified in the guidelines and it was provided accordingly (Basis: 1 & 2)	

S.N.	Monitoring Questionnaire	Answer	Question type
4.e)	Municipality provides orientation to residents on project Bases 1. Municipality documents/costs (Orientation Report)	a) The municipality has not provided orientation on the project to the concerned person as specified in the guidelines (no basis required) b) The municipality has provided orientation to the concerned person regarding the project as specified in the guidelines, but there is no report on it (no basis required) c) The municipality has provided orientation to the concerned persons regarding the project as specified in the guidelines and prepared a report on the same (basis 1)	Drop down list (Single choice)
4 f)	Monitoring by the Municipal Monitoring Committee before final bill payment Bases 1. Final Bill Document 2. Monitoring Report Attached to the Bill (Schedule-7)	a) No monitoring by the Municipal Monitoring Committee before final bill payment (no basis required) b) Monitoring was conducted by the Municipal Monitoring Committee before the final bill payment, but there is no report (Basis: 1) c) Monitoring was conducted by the Municipal Monitoring Committee before the final bill payment and a report was prepared (basis: 1 & 2)	Drop down list (Single choice)
	Take a photo of the paper for Question No. 4 (a) to 4 (f).		Photo
4 a)	If there is anything more		Manual Entry
5	Assessment Topic Area-5: Technical Assessment, Payment and Settlement		
5.a)	Assessment Topic Area-5: Technical Assessment, Payment and Settlement Assessment (Bases) 1. Measurement details/measurement book attached to the bill submitted to the municipality	a) Measurement details not submitted with the bill (no basis required) b) An open document containing the details of the survey was submitted along with the bill but was not entered in the municipality's survey book (Basis 1) c) A survey book containing the details of the survey has been submitted along with the bill (Basis 1)	Drop down list (Single choice)
	Question No. 5 a) Take a photo of the available documents.		
5 b)	If there is anything more		Manual Entry
6	Hoarding boards, public hearings, public reviews and public testing		

S.N.	Monitoring Questionnaire	Answer	Question type
6.a)	Hoarding boards, public hearings, public reviews and public testing (Bases) 1. Hoarding board placed in a visible place 2. Minutes of public hearing 3. Minutes of public review 4. Minutes of public audit	a) Complying with any one of the provisions (basis: 1 to 4) b) Complying with only any 3 provisions (basis:1 to 4) c) All provisions have been complied with (basis: 1 to 4)	Drop down list (Single choice)
	Photo of the document available in question no. 6		
6 b)	If there is anything more		Manual Entry
7	Coordination with other agencies regarding small-scale irrigation		Photo
7.a)	Coordination with other agencies regarding small irrigation Base 1 1. Detailed study report or annual approved budget and program	A) The budget is managed solely by the municipality. b) Joint budget management by the municipality and the province c) Joint budget management by the municipality, province, and federal government	Drop down list (Single choice)
	Photo of the document available in question no. 7		
7 b)	If there is anything more		Manual Entry
	Photo of the document available in question no. 7		
8	Are there any suggestions and advice for revising the irrigation guidelines of the municipality/city based on the implementation experience after the implementation of the small irrigation guidelines? *	A) Yes A) No	Drop down list (single choice)
	If the answer is yes, go to question no. 9 and if not, go to question no. 10.		
9	If so, what are the items to be amended? *	manual entry	
10	If there are any additional matters on behalf of the surveyor, please mention them point by point *	manual entry	

Annex 4. Scheme wise score of irrigation scheme

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
1	Aadhichowk Kulo IP	Dhankuta	Sahidbhumi Rural Municipality	2	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
2	Adheri Muhanbote IP	Okhaldhunga	Siddhicharan Municipality	3	SIP	Good	Good	Weak	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
3	Bakuwa Khola Muhan Gari Simle Titribote IP	Udayapur	Udayapurgadhi Rural Municipality	1	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Good
4	Barabote Kulo IP	Dhankuta	Dhankuta Municipality	9	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Fair	Weak	Good	Fair	Good	Good
5	Limit IP	Khotang	Sakela Rural Municipality	1	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Weak	Good	Fair	Fair	Good
6	Batise kulo Irrigation Project	Dhankuta	Sahidbhumi Rural Municipality	6	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
7	Betini Kulo IP	Dhankuta	Sahidbhumi Rural Municipality	5	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
8	Bhaluwa Dovan Sana Sichai Yojana	Udayapur	Chaudandigadhi Municipality	9	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
9	Bhote Khola Pakuwatar Irrigation Project	Dhankuta	Chaubise Rural Municipality	8	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Fair	Weak	Good	Fair	Fair	Good
10	Bhulbhule IP	Khotang	Sakela Rural Municipality	4	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Weak	Good	Good	Good	Good
11	Chharuwa Khola Sisney Mathillo IP	Dhankuta	Chaubise Rural Municipality	7	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
12	Chuwabote Sichai Kulo Irrigation Project	Udayapur	Katari Municipality	4	SIP	Good	Good	Weak	Fair	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Good
13	Chyanam Khola Muhan Joke Saunepani Kamal Pokhari IP	Okhaldhunga	Sunkoshi Rural Municipality	10	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
14	Dhadkhola Muhan Rithabote IP	Okhaldhunga	Sunkoshi Rural Municipality	6	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
15	Dhamile Gardhaney Sichai Yojana	Udayapur	Katari Municipality	8	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
16	Dhanbire irrigation project	Panchthar	Falgunanda Rural Municipality	7	SIP	Good	Good	Good	Weak	Good	Good	Good	Good	Good	Good	Weak	Good	Good	Good	Good
17	Dhappar Sichai Kulo	Udayapur	Katari Municipality	6	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
18	Dhyaplu pangkhukhola sichai kulo marmat yojana	Okhaldhunga	Manebhanjyang Rural Municipality	1	LG	Good	Fair	Weak	Weak	Good	Good	Good	Good	Weak	Fair	Weak	Good	Good	Weak	Weak
19	Dochekeo IP	Okhaldhunga	Siddhicharan Municipality	10	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
20	Eghara Ghare Sichai Yojana	Udayapur	Chaudandigadhi Municipality	4	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
21	Gokundeshwor khola chhoti tole IP	Dhankuta	Dhankuta Municipality	7	SIP	Good	Fair	Weak	Good	Good	Good	Good	Good	Fair	Fair	Weak	Good	Fair	Good	Good

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
22	Gunthale IP	Khotang	Sakela Rural Municipality	1	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Weak	Good	Good	Fair	Good
23	Hawan Kulo IP	Okhaldhunga	Sunkoshi Rural Municipality	8	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
24	Jingjuke muhan khamnegra IP	Panchthar	Falgunanda Rural Municipality	4	SIP	Good	Good	Fair	Fair	Good	Good	Good	Good	Fair	Good	Weak	Fair	Good	Good	Good
25	Kali Khola Irrigation Project	Ilam	Suryodaya Municipality	3	SIP	Good	Weak	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
26	Kerabari IP	Okhaldhunga	Chishankhu Gadhi Rural Municipality	5	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Fair	Good	Good
27	Kerabari Irrigation Project	Ilam	Suryodaya Municipality	11	SIP	Good	Weak	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
28	Khaldebesi	Ilam	Suryodaya Municipality	10	SIP	Good	Weak	Weak	Weak	Good	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
29	Khurkhure Sana Sichai Yojana	Udayapur	Chaudandigadhi Municipality	5	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
30	Kirte Dumre kulo Irrigation Project	Terhathu m	Chhathar Rural Municipality	5	SIP	Good	Fair	Weak	Good	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Good	Good
31	Kole Syaledanda Rakse Kulo IP	Bhojpur	Arun Rural Municipality	2	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
32	Kunai pokahari kanle kurla sinchai yojana	Udayapur	Rautamai Rural Municipality	5	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Weak	Good	Good	Fair	Good	Fair	Good
33	Kyauri ip	Okhaldhunga	Manebhanjyang Rural Municipality	2	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
34	Lalu Khahare IP	Okhaldhunga	Chishankhu Gadhi Rural Municipality	6	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Fair	Good	Good
35	Laphe ip	Okhaldhunga	Manebhanjyang Rural Municipality	6	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Fair	Fair	Good

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
36	Majh kulo IP	Dhankuta	Dhankuta Municipality	6	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Fair	Weak	Good	Fair	Fair	Good
37	Majhuwa khola saatghare Irrigation Project	Ilam	Suryodaya Municipality	1	SIP	Good	Weak	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
38	Mangsuwa Khola Mangsuwatar Kulo IP	Dhankuta	Sahidbhumi Rural Municipality	4	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
39	Mathey Khandi Sichai Kulo Tatha Ayoajana	Udayapur	Chaudandigadhi Municipality	7	SIP	Good	Good	Fair	Fair	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
40	Molung khola mate thulibesi banakhu ip	Okhaldhunga	Manebhanjyang Rural Municipality	9	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Fair	Good	Good
41	Mul Kulo IP	Terhathum	Chhathar Rural Municipality	1	SIP	Good	Fair	Weak	Good	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
42	Mulkhet Muhan Halede IP	Okhaldhunga	Sunkoshi Rural Municipality	6	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
43	Nakase Bagar IP	Dhankuta	Dhankuta Municipality	8	SIP	Good	Fair	Weak	Good	Good	Good	Good	Good	Fair	Fair	Weak	Good	Fair	Fair	Good
44	I'm sorry, I'm sorry.	Terhathu m	Chhathar Rural Municipality	1	SIP	Good	Fair	Weak	Good	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
45	Namfuwa Khola sirwani kulo Irrigation Project	Dhankuta	Chaubise Rural Municipality	2	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
46	Namphuwa Khola IP	Dhankuta	Chaubise Rural Municipality	3	LG	Good	Weak	Weak	Weak	Good	Good	Good	Good	Weak	Weak	Weak	Good	Fair	Fair	Weak
47	Phalate Kulo IP	Terhathu m	Chhathar Rural Municipality	1	SIP	Good	Fair	Weak	Good	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
48	Pokting Surke Bigutar IP	Okhaldhunga	Siddhicharan Municipality	7	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
49	Puchhar kulo IP	Panchthar	Falgunanda Rural Municipality	5	SIP	Good	Good	Fair	Fair	Good	Good	Good	Good	Good	Good	Weak	Fair	Good	Fair	Good

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
50	Rakiuli Tallo Ruwala Kulo Marmat IP	Udayapur	Rautamai Rural Municipality	6	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good
51	Sapa Khola Dovan Aaspas Chhetra IP	Bhojpur	Arun Rural Municipality	6	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Weak	Good	Fair	Fair	Good
52	Serna Khola muhan chauke bargaicha IP	Okhaldhunga	Chishankhu Gadhi Rural Municipality	6	SIP	Good	Fair	Weak	Fair	Good	Good	Good	Good	Good	Good	Fair	Good	Fair	Good	Good
53	Simle Pani bhdaure IP	Okhaldhunga	Chishankhu Gadhi Rural Municipality	7	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Fair	Good	Good
54	Suntalung Kulo IP	Bhojpur	Arun Rural Municipality	4	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Fair	Good	Weak	Good	Fair	Fair	Good
55	Syangba Khola IP	Panchthar	Falgunanda Rural Municipality	3	SIP	Good	Good	Fair	Fair	Good	Good	Good	Good	Good	Good	Weak	Good	Fair	Good	Good
56	Tallo Gau Irrigation Pond IP	Bhojpur	Arun Rural Municipality	7	LG	Good	Weak	Weak	Weak	Good	Good	Good	Good	Weak	Weak	Weak	Good	Fair	Weak	Weak

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
57	Teltele Khola Muhan Gari Ranawal Sichai	Udayapur	Udayapurgadhi Rural Municipality	6	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Weak	Good	Good
58	Thaliatar Mul Kulo Chappa Khola	Udayapur	Udayapurgadhi Rural Municipality	5	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Weak	Good	Good
59	Thulo Khola IP	Okhaldhunga	Siddhicharan Municipality	1	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
60	Tintale Beach Kulo	Udayapur	Katari Municipality	5	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
61	Watima Dudhe Sichai Yojana	Udayapur	Rautamai Rural Municipality	5	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good
62	Ithungkhola Ghalegaun Tamakhe Irrigation Scheme	Panchthar	Phidim Municipality	8	SIP	Weak	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
63	Kavre Khela Dummi Bote Irrigation	Khotang	Jante Dhunga Rural Municipality	4	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good

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64	Kalikhola Irrigation Scheme	Ilam	Sandakpur Rural Municipality	4	SIP	Good	Good	Weak	Fair	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
65	Irrigation of small ditches outside corners	Khotang	Jante Dhunga Rural Municipality	5	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Weak	Fair	Good
66	Jirekhola Hitidhara Luringtar Irrigation Scheme	Ilam	Sandakpur Rural Municipality	3	SIP	Good	Good	Fair	Fair	Good	Good	Good	Good	Good	Fair	Fair	Good	Good	Good	Good
67	Jhutre Jyamire Irrigation Scheme	Ilam	Ilam Municipality	1	SIP	Weak	Good	Weak	Fair	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
68	Three-fold wall irrigation scheme	Ilam	Sandakpur Rural Municipality	1	SIP	Good	Good	Fair	Fair	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good
69	Pande Bagar Chanaite Besi Irrigation	Khotang	Jante Dhunga Rural Municipality	5	SIP	Good	Fair	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Weak	Good	Good
70	Bukatuka Redam Irrigation Scheme	Khotang	Jante Dhunga Rural Municipality	3	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good

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71	Bhutekhola Akhane Irrigation Scheme	Ilam	Ilam Municipality	5	SIP	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
72	Irrigation project from Malbase to the third village via Bhirgaun	Ilam	Ilam Municipality	10	SIP	Good	Good	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
73	Rasuwa Doebhan Tallo Manke Rakse Dhad Irrigation	Udayapur	Rautamai Rural Municipality	2	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good
74	Lamakhola Salleri Banjhogra Irrigation Scheme	Panchthar	Phidim Municipality	7	SIP	Weak	Good	Fair	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
75	Lingsuwa Rate Irrigation Scheme	Ilam	Ilam Municipality	12	SIP	Good	Good	Fair	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
76	Vasum Tallohatti Farmland Irrigation Scheme	Panchthar	Phidim Municipality	14	SIP	Good	Good	Weak	Fair	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
77	Sanimai Alindada Chookdal Irrigation Scheme	Ilam	Sandakpur Rural Municipality	3	SIP	Good	Good	Weak	Weak	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good

SN	Name of Irrigation scheme	District	RM/ Mun	Ward no.	Implementing Agency	Irrigated area by scheme	Plan request, recommendation and selection	Irrigation service fee	Renewal of scheme	Status of women's representation in WUA	At least one women vital position	Construction implementation method	Public participation	Upfront cash fund	Advance	Municipality provides orientation to	Monitoring by the Municipal Monitoring Committee before final bill payment	Technical evaluation, payment and differential evaluation	Hoarding board, public hearing, public review and public audit	Coordination with other agencies regarding small-scale irrigation
78	Samdin Irrigation Project in Hokma River Sidinglama	Panchthar	Phidim Municipality	2	SIP	Good	Good	Weak	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good

Annex 5. List of schemes with score in individual indicators

S N	Name of scheme	Palika	Project selection and budget management (100)	Institutional work, duties and rights (100)	Formation and operation of Water users' association (100)	Project implementation and management (100)	Technical assessment, payment and settlement (100)	Transparency and good governance (100)	Assistance in implementing federalism (100)
1	Aadhichowk Kulo IP	Sahidbhumi Rural Municipality	60	0	100	80	50	50	100
2	Adheri Muhanbote IP	Siddhicharan Municipality	100	40	100	95	100	100	100
3	Bakuwa Khola Muhan Gari Simle Titribote IP	Udayapurgadhi Rural Municipality	100	0	100	100	50	100	100
4	Barabote Kulo IP	Dhankuta Municipality	60	0	100	72.5	50	100	100
5	Batase dobhan IP	Sakela Rural Municipality	60	0	100	90	50	50	100
6	Batise kulo Irrigation Project	Sahidbhumi Rural Municipality	60	0	100	80	50	50	100

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7	Betini Kulo IP	Sahidbhumi Rural Municipality	60	0	100	80	50	50	100
8	Bhaluwa Dovan Sana Sichai Yojana	Chaudandigadhi Municipality	100	0	100	100	100	100	100
9	Bhote Khola Pakuwatar Irrigation Project	Chaubise Rural Municipality	60	0	100	72.5	50	50	100
10	Bhulbhule IP	Sakela Rural Municipality	60	0	100	90	100	100	100
11	Chharuwa Khola Sisney Mathillo IP	Chaubise Rural Municipality	60	0	100	80	50	50	100
12	Chuwabote Sichai Kulo Irrigation Project	Katari Municipality	100	20	100	100	50	100	100
13	Chyanam Khola Muhan Joke Saunepani Kamal Pokhari IP	Sunkoshi Rural Municipality	60	0	100	95	100	100	100
14	Dhadkhola Muhan Rithabote IP	Sunkoshi Rural Municipality	60	0	100	95	100	100	100
15	Dhamile Gardhaney Sichai Yojana	Katari Municipality	100	0	100	100	100	100	100
16	Dhanbire irrigation project	Falgunanda Rural Municipality	100	60	100	90	100	100	100
17	Dhappar Sichai Kulo	Katari Municipality	100	0	100	100	100	100	100
18	Dhyaplu pangkhukhola sichai kulo marmat yojana	Manebhanjyang Rural Municipality	60	0	100	62.5	100	0	0
19	Dochekeo IP	Siddhicharan Municipality	100	0	100	95	100	100	100
20	Eghara Ghare Sichai Yojana	Chaudandigadhi Municipality	100	0	100	100	100	100	100
21	Gokundeshwor khola chhoti tole IP	Dhankuta Municipality	60	40	100	72.5	50	100	100
22	Gunthale IP	Sakela Rural Municipality	60	0	100	90	100	50	100
23	Hawan Kulo IP	Sunkoshi Rural Municipality	60	0	100	95	100	100	100
24	Jingjuke muhan khamnegra IP	Falgunanda Rural Municipality	100	50	100	75	100	100	100

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25	Kali Khola Irrigation Project	Suryodaya Municipality	20	0	100	100	100	100	100
26	Kerabari IP	Chishankhu Gadhi Rural Municipality	60	0	100	95	50	100	100
27	Kerabari Irrigation Project	Suryodaya Municipality	20	0	100	100	100	100	100
28	Khaldebesi	Suryodaya Municipality	20	0	50	100	100	100	100
29	Khurkhure Sana Sichai Yojana	Chaudandigadhi Municipality	100	0	100	100	100	100	100
30	Kirte Dumre kulo Irrigation Project	Chhathar Rural Municipality	60	40	100	80	50	100	100
31	Kole Syaledanda Rakse Kulo IP	Arun Rural Municipality	60	0	100	80	50	50	100
32	Kunai pokahari kanle kurla sinchai yojana	Rautamai Rural Municipality	100	0	100	75	100	50	100
33	Kyauri ip	Manebhanjyang Rural Municipality	60	0	100	95	100	100	100
34	Lalu Khahare IP	Chishankhu Gadhi Rural Municipality	60	0	100	95	50	100	100
35	Laphe ip	Manebhanjyang Rural Municipality	60	0	100	95	50	50	100
36	Majh kulo IP	Dhankuta Municipality	60	0	100	72.5	50	50	100
37	Majhuwa khola saatghare Irrigation Project	Suryodaya Municipality	20	0	100	100	100	100	100
38	Mangsuwa Khola Mangsuwatar Kulo IP	Sahidbhumi Rural Municipality	60	0	100	80	50	50	100
39	Mathey Khandi Sichai Kulo Tatha Ayoajana	Chaudandigadhi Municipality	100	50	100	100	100	100	100
40	Molung khola mate thulibesi banakhu ip	Manebhanjyang Rural Municipality	60	0	100	95	50	100	100
41	Mul Kulo IP	Chhathar Rural Municipality	60	40	100	80	50	50	100
42	Mulkhet Muhan Halede IP	Sunkoshi Rural Municipality	60	0	100	95	100	100	100
43	Nakase Bagar IP	Dhankuta Municipality	60	40	100	72.5	50	50	100

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44	I'm sorry, I'm sorry.	Chhathar Rural Municipality	60	40	100	80	50	50	100
45	Namfuwa Khola sirwani kulo Irrigation Project	Chaubise Rural Municipality	60	0	100	80	50	50	100
46	Namphuwa Khola IP	Chaubise Rural Municipality	20	0	100	55	50	50	0
47	Phalate Kulo IP	Chhathar Rural Municipality	60	40	100	80	50	50	100
48	Pokting Surke Bigutar IP	Siddhicharan Municipality	60	0	100	95	100	100	100
49	Puchhar kulo IP	Falgunanda Rural Municipality	100	50	100	85	100	50	100
50	Rakiuli Tallo Ruwala Kulo Marmat IP	Rautamai Rural Municipality	100	0	100	100	100	50	100
51	Sapa Khola Dovan Aaspas Chhetra IP	Arun Rural Municipality	60	0	100	90	50	50	100
52	Serna Khola muhan chauke bagaicha IP	Chishankhu Gadhi Rural Municipality	60	20	100	95	50	100	100
53	Simle Pani bhdaure IP	Chishankhu Gadhi Rural Municipality	60	0	100	95	50	100	100
54	Suntalung Kulo IP	Arun Rural Municipality	60	0	100	80	50	50	100
55	Syangba Khola IP	Falgunanda Rural Municipality	100	50	100	90	50	100	100
56	Tallo Gau Irrigation Pond IP	Arun Rural Municipality	20	0	100	55	50	0	0
57	Teltele Khola Muhan Gari Ranawal Sichai	Udayapurgadhi Rural Municipality	100	0	100	100	0	100	100
58	Thaliatar Mul Kulo Chappa Khola	Udayapurgadhi Rural Municipality	100	0	100	100	0	100	100
59	Thulo Khola IP	Siddhicharan Municipality	100	0	100	95	100	100	100
60	Tintale Beach Kulo	Katari Municipality	100	0	100	100	100	100	100
61	Watima Dudhe Sichai Yojana	Rautamai Rural Municipality	100	0	100	100	100	50	100
62	Ithungkhola Ghalegaun Tamakhe Irrigation Scheme	Phidim Municipality	80	0	100	100	100	100	100

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63	Kavre Khela Dumri Bote Irrigation Project	Jante Dhunga Rural Municipality	60	0	100	100	100	50	100
64	Kalikhola Irrigation Scheme	Sandakpur Rural Municipality	100	20	100	95	100	100	100
65	Chote Khola Bohore IP	Jante Dhunga Rural Municipality	60	0	100	100	0	50	100
66	Jirekhola Hitidhara Luringtar Irrigation Scheme	Sandakpur Rural Municipality	100	50	100	87.5	100	100	100
67	Jhutre Jyamire Irrigation Scheme	Ilam Municipality	80	20	100	100	100	100	100
68	Tin Dobhane bhitte irrigation scheme	Sandakpur Rural Municipality	100	50	100	95	100	100	100
69	Pande Bagar Chanaite Besi Irrigation	Jante Dhunga Rural Municipality	60	0	100	100	0	100	100
70	Bukatuka Redam Irrigation Scheme	Jante Dhunga Rural Municipality	100	0	100	100	100	100	100
71	Bhutekhola Akhane Irrigation Scheme	Ilam Municipality	100	100	100	100	100	100	100
72	Malbase Dekhi Bhirgaun hudai tallo gaun IP	Ilam Municipality	100	40	100	100	100	100	100
73	Rasuwa Dobhan Tallo Manke Rakse Dhad Irrigation	Rautamai Rural Municipality	100	0	100	100	100	50	100
74	Lamakhola Salleri Banjhogra Irrigation Scheme	Phidim Municipality	80	30	100	100	100	100	100
75	Lingsuwa Rate Irrigation Scheme	Ilam Municipality	100	70	100	100	100	100	100
76	Vasum Tallohatti Farmland Irrigation Scheme	Phidim Municipality	100	20	100	100	100	100	100
77	Sanimai Alindada Chookdal Irrigation Scheme	Sandakpur Rural Municipality	100	0	100	95	100	100	100
78	Hokma Khola Sidinglama Samdin Irrigation Project	Phidim Municipality	100	40	100	100	100	100	100