

DFID Nepal Rural Access Programme 3 (RAP 3)
Monitoring, Evaluation and Learning (MEL) Component

INDEPENDENT VERIFICATION OF RAP 3 DISBURSEMENT LINKED INDICATORS (DLI)

Date: August 2016

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Abbreviations

DDC District Development Committee

DFID UK Department for International Development

DLI Disbursement Linked Indicator (used for the Payment by Results mechanism)

DPM RAP3 Deputy Programme Manager

DRCN District Road Core Network

DTL District Team Leader

IoE Institute of Engineering (Tribhuvan University, Nepal)

km Kilometre LF Logframe

LFI Logframe Indicator

LNGO Local Non-Governmental Organisation

GoN Government of Nepal LRN Local Roads Network

m Metre

MEL Monitoring, Evaluation and Learning Component of RAP3

PBR Payment by Results

PM Programme Manager (of RAP3)

PMV System Performance Management and Verification System of RAP3

RAP3 Rural Access Programme 3

RBG Road Building Group

RMG Road Maintenance Group

SC Supervision Consultant (sub-contracted by RAP3)

Executive Summary

The MEL-led independent verification of RAP3 has been initiated following recommendations from the 2015 DFID Annual Review. Funding of the contract between DFID and the implementing organisation for RAP3 is almost fully based on payment by results (PbR)¹. Payments are based on disbursement linked indicators (DLIs), which relate to RAP3 results. The role of MEL in verification is to verify the DLIs reported on by RAP3 to DFID.

In order to develop a framework for independent verification, MEL conducted an independent review of RAP's Performance Management and Verification (PMV) system in February 2016. The PMV system is the means by which RAP collects and collates progress related data (i.e. internal M&E) for reporting to DFID on a monthly basis. The PMV review highlighted the strengths and weaknesses of the system and formed the basis by which MEL would conduct the actual independent verification of RAP3. The verification focused on two DLIs in the four road construction districts of Bajura, Humla, Kalikot and Mugu on a sample basis. The DLIs verified were: 1) LRN road length under construction and 2) employment days generated by RBGs. MEL developed a pilot methodology and conducted the verification in June-July 2016. This report presents the findings from the verification exercise.

The verification found that for the LRN road construction progress, the results reported by RAP are accurate based on the 86 road section samples assessed by the verification team. Out of 86 sections, 79 were accurately reported but seven road sections do not completely match the reported results. However the findings from the verification team show that there is a sound rationale for divergences in these seven sections.

Employment days generated were assessed in 64 RBGs across the four districts. The results are not 100% accurate but in three out of four districts, the results are within the acceptable 10% margin of error; in the other district, the margin of error was 11% (only slightly over the 10% limit of acceptability). The reason for the discrepancies is largely due to inconsistencies in data compilation and reporting periods used at different levels of the RAP reporting chain.

In order for MEL to accurately verify employment days in the future, it is recommended that RAP streamlines the data collection, compilation and retrieval system. This will ensure a higher level of confidence for DFID that the data reported for employment days is accurate.

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¹ To date RAP has been entirely based on PbR. However in the extension phase of RAP (September 2016 – June 2019) the new Connect component (previously SED component) will be input based. However, the rest of RAP will still be based on PbR including the LRN component.

1. Introduction

1.1 What RAP does

The objective of the Rural Access Programme 3 (RAP3) is to reduce poverty in Western Nepal. The programme aims to deliver economic benefits to the poor through rural road access and increased connectivity. The primary output of RAP3 is to construct and maintain rural roads within the District Road Core Network (DRCN) which makes up a strategic part of Nepal's Local Roads Network (LRN) in eight core districts of the Mid and Far West, utilising a pro-poor targeted labour based approach. Poor and vulnerable individuals are targeted to become part of Road Building Groups (RBGs) and Road Maintenance Groups (RMGs) who are paid to construct and maintain RAP roads.

The construction of RAP roads is based on three broad stages: 1) track opening to 2.5m, 2) track widening to 3.5m, and 3) track widening to 4.5m with structures (this includes supporting structures such as gabion walls, cross drainage, etc.). Construction is completed in sections along the entirety of a planned road corridor.

Employment days are the paid work days of members of RBGs and RMGs who are paid on a monthly basis, where a RAP reporting month is defined as the 22nd date of one month to the 21st date of the following month². RBGs typically consist of up to 20 members, whilst RMGs are usually smaller and consist of up to 10 members. Supervision consultants are hired by RAP to supervise road works, collect attendance records (with information on employment days) of each group and measure the amount of work completed. All data is compiled and aggregated at the district level and reported to the RAP central office.

1.2 Disbursement Linked Indicators

The UK Department for International Development (DFID) funds RAP3. Funding of the contract between DFID and the implementing organisation, IMC Worldwide, is entirely based on payment by results (PbR)³. Payments are based on disbursement linked indicators (DLIs), which relate to RAP3 results⁴. A unit price is attached to the achievement of each result. For instance, one employment day is worth £1.88. RAP3 counts its results monthly and submits an invoice to DFID based on the results achieved.

² Attendance days (recorded in RBG attendance sheets) are the recorded employment days which is used for the basis of payment. The District Communication strategy notes: 'RBGs are paid a variable lump sum, on average once a month, according to the volume of work carried out by the group as a whole since the last payment. From this total, a daily wage rate is calculated by the supervising consultant for each RBG, and members are then paid according to how many days they have worked in the period since the last payment.' The PMV review covers issues regarding the understanding of employment days.

³ PbR is a broad term, encompassing any approach where some payments are made only following the delivery of pre-agreed results (outputs or outcomes) - see DFID (2015) - A Smart Guide to payment-by-results contracting including outcome-based, output-based and hybrid contracts. RAP3 was DFID's first PbR contract and while PbR is still a relatively new contracting model for DFID, DFID is increasing its use with the aim to increase development impact and value for money.

⁴ Some DLIs are the same as the indicators in the RAP3 logframe. There are however also differences.

The two major DLIs of RAP 3 are:

- 1) Road length under construction (or LRN verification).
- 2) Employment days generated.

1.3 Objectives of the assignment

The objective of this assignment was to design, develop and pilot a methodology to independently verify the two most significant DLIs of RAP3. The road length under construction is a bundle of two specific DLIs: a) kilometres of track under widening to 3.5m and b) kilometres of track under widening to 4.5m with structures. Employment day data is derived from attendance sheets from the Road Building Groups (RBGs) and Road Maintenance Groups (RMGs) that work on the road sections in the construction and maintenance districts.

The rationale for independently verifying these two DLIs originates from the MEL-led Performance Management and Verification (PMV) Review of RAP 3⁵. Following the PMV review, it was agreed that MEL would develop a methodology and means to collect data for physical verification of rural roads and employment days recorded through a suggested sampling methodology (described in the next section). Based on consultations with RAP3 and DFID Nepal, the MEL Component agreed to focus the verification pilot on road construction related DLIs. Hence road sections and RBGs were sampled from the four districts of Bajura, Humla, Kalikot and Mugu.Future verification could assess the kilometres of road under maintenance. Other DLIs such as training days have been omitted from the current scope of verification activities since they account for a very small portion of RAP3's overall invoicing to DFID Nepal.

Based on lessons from this pilot, the MEL team will discuss with DFID and RAP3 ways in which future verification activities can be designed to optimise their effectiveness. MEL is planning to repeat verification activities twice a year for the remainder of RAP-3.

⁵ The key findings that refer to data collection, processing and reporting are included in Annex 1. The full PMV Review is available at: http://www.rapnepal.com/content/review-rap-3-performance-management-and-verification-pmv-system

2. Methodology and Sampling Framework

2.1 Verification Team

Physical and technical verification was conducted by a five-person engineering team contracted by MEL. The verification team consisted of one Senior Rural Roads Engineer and four senior graduate engineers from the Institute of Engineering (IoE), Tribhuvan University. The verification team was trained by MEL on the methodology and was tasked with recording data in the field. The MEL team organised a 3-day field-based training of the verification activities in the RAP3 pilot district Sindhupalchowk in June.

2.2 Methodology of Local Roads Network (LRN) Verification

The purpose of the LRN verification was to verify the validity of the work progress reported by RAP. The RAP3 LRN Progress Report of May 2016 was the basis for the LRN verification. Verification was conducted in June 2016.

The verification team completed field based measurements of the actual road and collected other evidence (i.e. photographs). Based on the sampling (see section 2.4) the verification team measured road sections using two types of measurement: cross-sectional and longitudinal. Before the team moved to the field to begin the verification, they obtained chainage wise (i.e. road section) construction updates from the RAP3 district team in order to sample the road section.

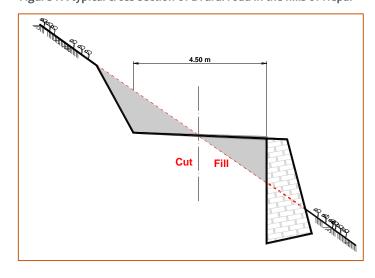


Figure 1 A typical cross-section of a rural road in the hills of Nepal

Information on critical sections, work in progress and completed sections were collected from each RAP3 district office to guide the cross section measurement. This was done to avoid sampling critical (i.e. where work is known to have stalled for valid reasons) and completed sections of road. The DLI specifically looks at the length of road *under progress* – that is, the length of road that is being widened to 3.5m, and the length of road that is being widened to 4.5m with added structures. Hence, the cross-sectional measurement is the primary basis of verifying road widening progress. The verification team conducted the road cross-section measurement at the start, towards the middle and at the end of each sampled road section. The team prepared a sketch of each cross-section at the site itself and also

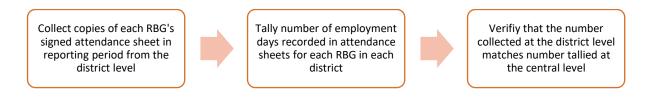
gathered photographs as additional evidence. The reason for the measurement of three cross-sections per sample of road stretch was to enable the verifiers to obtain a fuller picture of road widening progress compared to a single observation and measurement which the verifiers felt was insufficient and often not reflective of the actual progress along the road. This was particularly true where progress along the same stretch may vary due to difficult terrain.

Annex 2 provides one example of the data collected in one sampled road section in Bajura district by the verification team⁶. The verification team has a record of all measurements for all road sections sampled. This can be made available upon request or accessed through <u>Googledrive</u>.

2.3 Methodology for Employment Days Verification

The MEL team originally proposed a plan of collecting copies of the attendance sheets kept by each sampled RBG and tallying the recorded employment days (i.e. the attendance) with the sheets kept at the district level. However, it was found that RBGs do not keep all of their attendance sheets once they have been paid. Attendance sheets for each RBG for each month is signed by the 'Sahajkarta' (group leader) of the RBG, the Senior Technical Supervisor (supervision consultant) and a social mobiliser (LNGO or supervision consultant). This signed copy is then kept at the RAP district office and attached to a bill of quantities. Therefore in each month, the RAP district team can expect signed attendance sheets for all RBGs in their respective districts. The total employment days are then tallied for all RBGs in each district for each month and reported to the central level at RAP.

The MEL verification team therefore collected from the RAP district office duplicate copies of each sampled RBG's attendance sheet for a 3 month period⁷. Each RBG's total recorded employment days as per the signed attendance sheets was matched against the number compiled at the RAP central office for verification of accurate record keeping.



2.4 Sampling

The DLIs were verified on a sampling basis to balance the need to provide adequate assurance to DFID with proportionate resourcing of the verification exercise (see PMV Review Report produced by MEL). Based on discussions with DFID, MEL opted for a sampling option with a 90% confidence level and 10% margin of error.

The methodology of sampling considered the total number of RBGs across the four construction districts of Bajura, Humla, Kalikot and Mugu, and then assigned a sample size per district to the

⁶ The example in the Annex is the 54.5 metre sample road section: 8+068 to 8+112 under the work of the RBG named 'Paurakhi'. This includes: a) one cross-sectional measurement sketch, b) one longitudinal measurement, and c) three photos depicting the cross-section at the beginning (8+068), middle (8+088) and end (8+112) of the sample.

⁷ The team verified the 3 months of January to March 2016 in Mugu, Kalikot and Bajura. In Humla the verification team verified the months March to May. These represent the last 3 months that works were measured and beneficiaries have been paid by the time of field verification.

proportion of RBGs in each district. The longest road corridor was sampled for each district. Stretches of the road section were sampled based on identifying where road stretches were under works (i.e. not critical or completed) by the RBGs. A random number was generated within intervals to identify RBGs for sampling and this process was repeated until the required numbers to fulfil the sampling criteria were generated.

In total, 68.3km out of 97.5km of RAP construction roads were sampled across the 4 road corridors in the 4 construction districts. This total length was sampled at 3 points on 86 different road stretches that was being 'worked on' and representative of the 68.3km of the 4 roads verified (this amounts to 258 cross-sections). In total, 64 out of 295 RBGs supported by RAP3 in 4 new built districts were sampled. All sampled RBGs were located in these stretches (with some RBGs constructing more than one road stretch). Table 1 presents the sampling framework adopted.

Table 1: Sampling Framework

District	Number of RBGs	Number of sampled RBGs	Km of RAP3 new planned construction	Km of sampled new construction roads	Number of sample road stretches for cross-section measurement
Kalikot	69	14	23.6	17.7	24
Humla	74	16	26.5	14.4	16
Bajura	71	16	27.4	16.2	17
Mugu	81	18	20.0	20.1	29
Total	295	64	97.5	68.3	86

2.5 Limitations

There are three key limitations to the methodology adopted:

- Regarding Employment Days, as the verification team reviewed a sample of RBG attendance sheets, this cannot be aggregated up to the central level. The reason for sampling attendance sheets was due to the original intention of collecting these sheets directly from the RBGs in the field. However, as explained in section 2.3, it was necessary to collect duplicate attendance sheets from RAP district offices. It had been expected that disaggregated employment days for each RBG would be available at the central level; however this was later found to not be the case.
- The DLIs do not expressly incorporate the quality of road construction. The verification team
 conducted longitudinal measurement to assess some qualitative aspects of road construction, but
 this was not the focus of the verification work. Hence the qualitative assessment of the roads was
 limited and was primarily based on field observation and subjective interpretation by the
 verification team.
- There is a limitation in the methodology of undertaking cross-sectional measurements at three points of each sampled section because these three points may not be representative of the entire road cross-section. Hence an assessment of whether or not measurements are consistent with the reported width requires an element of judgement. The works undertaken can vary due to the terrain and assessment of the degree to which they meet acceptable standards is therefore subjective to some extent. The verification team took photographs and completed cross-section sketches of each section to enable third parties to review the assessments made.

3. Verification Findings

This section presents the findings of the verification. It looks at LRN and employment days separately.

3.1 LRN progress verification

In 92% of cases (79 out of 86 sample road sections), the width of road worked on by RAP was found to be consistent with what was reported in the RAP3 May 2016 LRN progress report. In many cases, the road width was above the 4.5m specification. In these cases the justification for wider widths is down to the field reality of road construction in mountainous terrains with uneven slopes and hills where the precise geometry of the terrain is impossible to consistently follow. Roads are maintained by cutting and filling in cross sections of the slopes which sometimes makes the road wider than required by the Nepal Rural Roads Standard. Annex 2 provides the full table of detailed findings for each sample road section in each district, along with a brief observation from the verification team.

In the remaining 8% of road sections, the verification team found that the measured width of at least one cross-section (either at the beginning, middle and/or end) was less than the reported width under construction. Table 2 details the seven outlier road sections: the width reported means the road should already be at 3.5m width and is *under progress* to be widened to 4.5m with structures – hence 4.5m is the reported width by RAP. Where the figure in the cross-section is under 3.5m, this is inaccurate compared to the reported progress. For these outlier road sections, the verification team observed that RAP is constructing retaining structures (e.g. gabion walls) in these sections on the valley side to form a part of the road width. It appears that RAP records as 'widening to 4.5m with structures' *irrespective* of the actual width of the cross-section for any section of a road where structures are being put in place. In the view of the MEL verification team, this is acceptable because in some parts of the road, the difficult terrain requires structures be put in place *first* before the actual widening work can be conducted.

Table 2: Road sections with lower widths than reported by RAP3

District	Name of road corridor	Lengt	h (m) sam	pled	Width reported by RAP3	meas	ual widured (cation) (ross-	Remarks
		from	to	length	(m)	Start	Mid	End	
Bajura	Maure – Toli - Chatara	4+691	4+129	38	4.5	5.5	4.5	1.8	The actual field progress is acceptable
		4+729	4+763	34	4.5	1.8	3	7	The actual field progress is acceptable.
		5+113	5+135	22	4.5	3.8	3	1.5	The actual field progress is acceptable.
		8+618	8+628	10	4.5	5	3	3	The actual field progress is acceptable.
		9+705	9+727	22	4.5	3.3	5	2	The actual field progress is acceptable.
		10+362	10+386	24	4.5	4.5	3	3.5	The actual field progress is acceptable.
Kalikot	Sanighat-Phukot- Syuna-Sipkhana	9+635	9+670	35	4.5	4.8	2.9	7	The actual field progress is acceptable

3.2 Additional information on quality of work conducted

The quality of the road 'worked on' reported by RAP 3 and discussed in this section is not directly related to LRN DLI verification. However, it was agreed that the verification engineers would also assess some qualitative aspects of the roads being constructed (e.g. grade, provisions of water management, bio-engineering, etc.). For this purpose, longitudinal information was recorded in a checklist for each sampled road section. A summary of field observations is shown in Table 3. The findings are consistent with that of the MEL-led LRN Review conducted in October 2015. A limitation of these observations is that this assessment represents a 'snapshot' in time of the work under progress. Hence, for example, if bio-engineering works is not evident, this does not mean that it will not later be addressed.

Table 3: Longitudinal observation of sampled road sections (Qualitative)

District	Name of Road	Length (km)	Number of sample road sections	Grade Observed (%)	Remarks
Kalikot	Sanighat-Phukot- Syuna-Sipkhana	17.7	24	3-7	The provision of grade seems okay. Drains are not constructed. 5% outer cross slope exists in road sections.
Humla	Salisalla-Darma	14.4	16	2-5	The provision of grade seems okay. Drains are not constructed. 5% outer cross slope exists in road sections.
Bajura	Maure-Toli- Chatara	16.2	17	2-10	Mostly, the provision of grade seems okay. High grades (>7) are found in few sections. 50m long drain constructed. 5% outer cross slope exists in road sections.
Mugu	Gamgadhi- Dhaina- Dhulachaur	19.9	29	1-12	Mostly, the provision of grade seems okay. High grades (>7) are found in few sections. Drains are not constructed. 5% outer cross slope exists in road sections.
TOTAL		68.3	86		

3.3 Employment Days Verification

The difference between the MEL verification of employment days and the reported numbers at the central RAP office level was within the 10% margin of error for three districts (Humla - 3%, Bajura - 10%, and Kalikot - 2%). Mugu was slightly outside this margin of error at -11%. The full findings from the employment days verification can be found in Annex 4.

There are a number of limitations and discrepancies found by the MEL verification team at the field in terms of data recording and data reporting which is highly likely to have led to inconsistencies in the verified districts. It was discovered that the RAP central office does not maintain a record of employment days disaggregated by each RBG from each district. Instead, the employments days are aggregated at the district level and the monthly aggregated number sent to the RAP central office.

The issue here is that the RAP central office requires the same data as the MEL verification team from its district offices. It is unclear why the data is not 100% accurate as it is assumed that the data source is the same (i.e. the signed attendance sheets kept at the RAP district office which the MEL verification team used – see **Annex 5** for examples of copies of attendance sheets collected by MEL verification kept at the RAP district office).

As observed in the PMV Review undertaken by MEL, the problem relates to the way data is recorded, compiled and reported at the field level. Whilst data is accurate within the acceptable margin of error, the reason for discrepancies lies at the data compilation level. This is primarily due to the existing practices of using different definitions of a reporting month at the RBG level, supervision consultant level and RAP district and central level. For example, in Humla, Kalikot, and Mugu, the Nepali month (e.g. 'Falgun') is used for a reporting month, whereas in Bajura the Gregorian (or 'English') calendar is used. It may be the case that during the conversion of the month from Nepali to Gregorian, some discrepancies may occur. In addition, the use of the 22nd date of one month to 21st of the subsequent month for RAP reporting may also lead to discrepancies when data is converted from a Gregorian calendar month to fit the reporting timeframe.

4. Implications for RAP3, DFID and MEL

For the LRN DLI verification, the MEL verification team found no major issues or inaccuracies in the sample. Therefore the progress reported by RAP3 to DFID can be interpreted as accurate and reflective of the actual field progress.

For the Employment Days DLI verification, the MEL team concludes that the data collected by the RAP district teams is *not* under or over reported and that the data collected at the district level is accurate; the inconsistencies in data are within the acceptable 10% margin of error for 3 out 4 districts, with the fourth district only slightly outside of this limit.

However the pattern of findings strongly corroborates that of the PMV Review conducted by MEL in February 2016. There is an overarching issue with the way data is compiled and reported at various levels (i.e. from RBG to supervision consultant to RAP district office to RAP central office) and the inability of the RAP central office to retrieve disaggregated data. There is a lack of consistent understanding of how data should be compiled and aggregated at various levels. This relates in part to the inconsistency in the way in which data is converted into the required monthly reporting as requested by the RAP central office.

In order for MEL to independently verify employment days in the future, it is recommended that RAP streamlines the data collection, compilation and retrieval system. This will ensure a higher level of confidence for DFID that the data reported is accurate.

There are also lessons for MEL that can inform future verification activities (assuming that the DLIs remain the same in the extension phase of RAP3 and that the confidence and margin of error levels remain the same). The methodology employed and the sample framework adopted for the LRN DLI verification does not require amendment. However for the employment days DLI verification, the sampling strategy needs to be amended. It may be better to verify all RBG attendance records (i.e. census) for a given period in each construction district. This can then be tallied up against the aggregate employment days reported to DFID by RAP, with implications on payments.

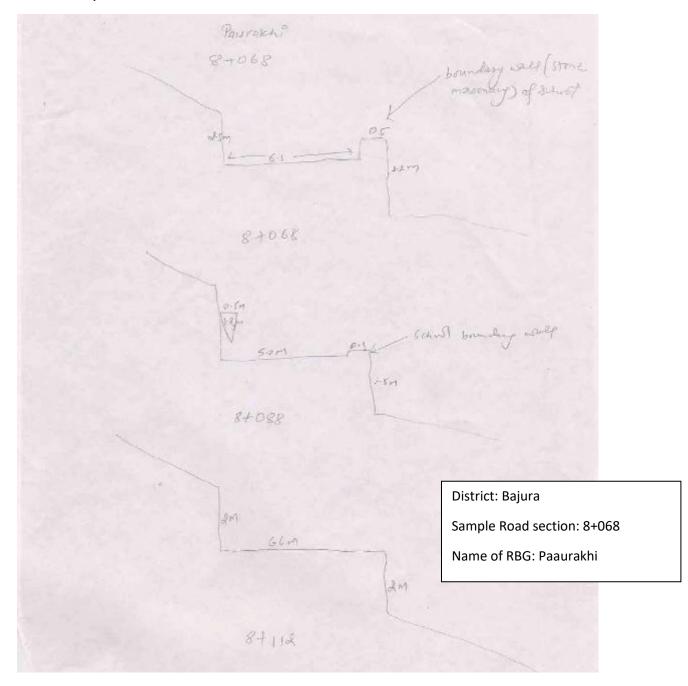
5. Annexes

Annex 1 – Summary of key findings on data collection, processing and reporting from MEL-led PMV Review (May 2016)

- The employment days generated indicator is one of the three highest payment generating DLIs. The recent internal audit on DLIs found there was mixed practices regarding data collection and calculations across some districts. Based on interviews at the district and Kathmandu levels, it was understood that RBG employment days are based on actual days worked (that are assumed to work out to an average of 8 hours per day) whereas RMG employment days are based on an estimated number of days (the estimate being derived from a task-volume-day standard that was established 7-8 years ago). However, even after the interviews it is not entirely clear if this understanding is one hundred percent correct. Even though there are not clear specific guidelines on how employment days are calculated, reference to their calculation is made in other programme documents. For instance, the District Communication strategy notes: 'RBGs are paid a variable lump sum, on average once a month, according to the volume of work carried out by the group as a whole since the last payment. From this total, a daily wage rate is calculated by the supervising consultant for each RBG, and members are then paid according to how many days they have worked in the period since the last payment.' Therefore, while several interviews referenced the importance of timesheets these appear important for wage distribution but not for the employment day indicator.
- There are indications (also identified through RAP 3 internal auditing processes, which is encouraging) that different data collection processes are being used across some districts. Earlier audits in March and April 2015, also noted that the paper trail to track employment days was not always possible.
- Data is aggregated manually which is time and resource intensive and increases the risks of some human errors and potentially 'butterfly effect' data miscalculations. Most data are entered manually, rather than linked to other workbooks etc.
- RAP 3 operates under three reporting cycles, which increases the workload. This is the DFID financial year of April-March; the RAP 3 implementation year of February-January; and the GON year of mid-July mid-July. Data is collected in the field for the period 22nd of the previous month to the 21st of the current month. Therefore, the three different annual cycles are further complicated by having a monthly reporting period that is not based on a calendar month even though much of the source data is collected on templates that follow a calendar month. This requires additional data processing since those reporting may have to take data from source documents covering the 22nd of the preceding month to the end of the month and then add data from the 1st 21st of the current month.
- The need to collect, aggregate and report on the DLIs on a monthly basis increases the demands on the programme and presents notable constraints to even basic data processing and reporting processes (as well as data quality checks). Reports are submitted by DTLs by the 25th of the month, or within three days of the end of the reporting period. Between the 26-28th of the month, M&E Specialist/SED team check and consolidate the data. Tables for the monthly report to DFID and GON are provided to the DPM who prepares the rest of the report. DFID's report is submitted monthly on the 5th.

Annex 2 – Field Data Measurement Methodology for LRN DLI Verification

1. Example of cross sectional measurement



2. Example of longitudinal assessment sheet

	-		Te. 1	17		0.0000	Chainage from: 8+66 D/W (m) Length of G/W						To: 8+112	
S.N.	Grad	e	Leng			T	721			-	30F	Cross- drains	Status (Completed	Sketch (showing Valley Side (V/S) and Mountain Side (M/S) structures, drain
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	(m)	70	1	FEB	TH.	Len	- Inc	Len.	ru.	Len.	nt.	3	riogressi	103
	10 -	100			+	+					1			- No.
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		-		8.		-	1/2					- 13		
						1.7								Sample Road section: 8+068

3. Example of cross-section photographs



District: Bajura

Sample Road section: 8+068

Name of RBG: Paaurakhi

Cross-section: Beginning, measured as **6.1m** width by verification team.

RAP 3 reported as 'under 4.5m widening with structures'



District: Bajura

Sample Road section: 8+088

Name of RBG: Paaurakhi

Cross-section: Middle, measured as **5m** width by verification team.

RAP 3 reported as 'under 4.5m widening with structures'



District: Bajura

Sample Road section: 8+112

Name of RBG: Paaurakhi

Cross-section: End, measured as **6.6m** width by verification team.

RAP 3 reported as 'under 4.5m

widening with structures'

Annex 3: LRN Progress Verification Compilation

Table 1: Kalikot: Sanighat-Phukot-Syuna-Sipkhana road

Sampl		Length	assigned (n	n)		measur ield (m)	ed in	Width report	
e ID	RBG	from	to	length	Start	Mid	End	ed by RAP3 (m)	Remarks
1	Srijanshil	2+825	2+866	41	10.1	9.5	8	4.5	Work in progress. Field verification confirms the width reported by RAP3.
2	Laligurans	2+580	2+720	40	7.8	7.9	4.8	4.5	Work in progress. Field verification confirms the width reported by RAP3.
3	Dinalkot	2+875	2+920	45	5	6	5.9	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
5	Pipalkot	2+780	2+820	40	6	7.9	9	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
4	Bikasit	4+242	4+260	18	7.1	5.5	5.8	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
5	Cimcoro	5+260	5+283	23	5.5	5.5	8.8	3.5	Work in progress. Field verification confirms with the width reported by RAP3. Road related structure being constructed.
3	Simsera	5+335	5+350	15	4.8	4.8	4.5	3.5	Work in progress. Field verification confirms with the width reported by RAP3. Road related structure being constructed.
6	Dordovski	9+609	9+630	21	8	3.9	5.9	4.5	Work in progress. Field verification confirms with the width reported by RAP3. Road related structure being constructed.
6	Pardarshi	9+635	9+670	35	4.8	2.9	7	4.5	Work in progress. Field verification confirms with the width reported by RAP3. Road related structure being constructed.

Sampl	RBG	Length	n assigned (n	ո)		measur ield (m)	ed in	Width report		
e ID	RBG	from	to	length	Start	Mid	End	ed by RAP3 (m)	Remarks	
7	Latemasto	12+810	12+985	175	5.7	5	4.6	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
,	Laternasto	10+880	10+900	20	5.3	5.4	6	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
8	Bimal	12+462	12+514	52	5.7	4.1	2.9	3.5	Work in progress. Field verification confirms with the width reported by RAP3.	
9	Shantight	13+340	13+400	60	8	5	2.5	3.5	Work in progress. Field verification confirms with the width reported by RAP3.	
		14+110	14+123	13	3.5	3.5	5.5	2.5	Work in progress. Field verification confirms with the width reported by RAP3.	
10	Tribeni	Tribeni	14+224	14+234	10	5.5	5.5	5.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
		14+380	14+400	20	5	5	5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
11	Paribartan	12+788	12+800	12	5	5	5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
	shil	15+947	15+959	12	5	5	5	3.5	Work in progress. Field verification confirms with the width reported by RAP3.	
12	Himali	16+592	16+609	17	4.5	4.5	4.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
12	Піпап	16+610	16+637	27	4.2	4.2	4.2	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
13	Raidhung a	16+706	16+739	33	4.2	4.2	4.1	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
		16+778	16+803.6	25.6	4.4	4.4	4.6	4.5	Work in progress. Field verification confirms	

Sampl		Length	assigned (n	n)		measur ield (m)	ed in	Width report		
e ID	RBG	from	to	length	Start	Mid	End	ed by RAP3 (m)	Remarks	
									with the width reported by RAP3.	
14	Kalika	17+478	17+488	10	4.4	4.4	4.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
	Kalika	17+577	17+587	10	5	5	5.2	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	

Table 2: Humla: Salisalla - Darma road

Sample ID	RBG	Lengt	h assigned	d (m)		n meas field (n		Width reported by RAP3	Remarks
		from	to	length (m)	Start	mid	end	(m)	
1	Kot	0+146	0+180	34	4.7	5.5	5.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
2	Jagatnath	2+750	2+780	30	4.7	5.7	4.7	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
3	Talim	4+035	4+053	18	3.5	4	4.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
4	Lamalekh	4+082	4+114	32	3.2	3	3	3.5	Work in progress. Field verification confirms with the width reported by RAP3.
5	Ratogulab	7+860	7+888	28	5.5	7	8.1	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
6	Lauttharukh	7+888	7+918	30	8	7	5.7	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
7	Aakriti	10+025	10+070	45	5.1	6	6	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
8	Vitgaun	10+058	10+102	44	5.8	5.4	7	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
9	Saipal	11+465	11+490	25	5.5	5.4	5.4	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
10	Samajsewa	11+102	11+132	30	6.8	6	8	4.5	Work in progress. Field verification confirms with the width reported by RAP3.

11	Janajagaran	10+070	10+115	45	6	5.5	5.3	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
12	Janajagriti	11+630	11+657	27	5.7	6.1	6.1	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
13	Gaurishanker	12+058	12+120	62	5.3	6.5	6.4	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
14	Mahadev	12+464	12+484	20	5.4	6	5	3.5	Work in progress. Field verification confirms with the width reported by RAP3.
15	Gudamadu	13+320	13+334	14	5	5	5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
16	Kotila	13+692	13+745	53	6	5	6	4.5	Work in progress. Field verification confirms with the width reported by RAP3.

Table 3: Bajura: Maure – Toli - Chatara road

Sample ID	RBG	Leng	th assigned	(m)		n meas field (n		Width reported by RAP3	Remarks	
		from	to	length	Start	Mid	End	(m)		
1	Jagrati	0+802	0+890	88	4.5	6.2	4.2	2.5	Work in progress. Field verification confirms with the width reported by RAP3.	
2	Pariwartan	2+190	2+230	40	5.3	4.5	4.2	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
3	Jukepani	2+807.5	2+828.5	31	3.6	4.2	4.4	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
4	Paurakhi	8+068	8+112	54.5	6.1	5	6.6	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
5	Nawadurga- kha	4+691	4+129	38	5.5	4.5	1.8	4.5	Work in progress. Field verification confirms with the width reported by RAP3.	
6	Bhagbati	4+729	4+763	34	1.8	0	7	4.5	Work in progress. Field verification confirms with the width reported by RAP3.Road related structure being constructed.	
7	Sivashankar	5+113	5+335	22	3.8	3	1.5	3.5	Work in progress. Field verification confirms with the width reported by RAP3. Road related structure being constructed.	
8	Saraswati	8+618	8+628	10	5	3	3	4.5	Work in progress. Field verification confirms with the width reported by RAP3. Road related structure being constructed.	

Sample ID	RBG	Leng	th assigned	(m)		meas field (n		Width reported by RAP3	Remarks
		from	to	length	Start	Mid	End	(m)	
		8+992	9+011	19	4.5	9.3	5.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
9	Phulbari	9+705	9+727	22	3.3	5	2	4.5	Work in progress. Field verification confirms with the width reported by RAP3.Road related structure being constructed.
10	Samabeshi	11+474	11+494	20	6	6	6	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
11	Sahasi	11+495	11+523	28	4.5	6	6	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
12	Misrit	10+362	10+386	23	4.5	3	3.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.Big boulders to be broken. Side drains Constructed.
13	Sanigadha	13+537	13+584.5	47.5	4.9	5	4.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
14	PipalChautara	13+366	13+396	30	4.8	5.5	8	3.5	Work in progress. Field verification confirms with the width reported by RAP3.
15	Bandali	13+895	13+970	85	5	5	4.8	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
16	Chalnegada	14+661	14+716	55	5.5	5.5	5.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.

Table 4: Mugu: Gamgadhi - Dhaina - Dhulachaur road

Sample ID	RBG	Lengt	h assigned	l (m)		n meas field (n		Width reported by RAP3	Remarks
		from	to	length	Start	Mid	End	(m)	
1	Chandra da va	5+640	5+660	20	4.8	4.8	5.3	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
1	Chandrodaya	8+600	8+640	46.8	5.5	5	4.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
2	Kalasilta	8+640	8+680	36.8	4.5	3.6	3.8	3.5	Work in progress. Field verification confirms with the width reported by RAP3.
3	Kalika	8+520	8+560	39	4.7	4	5.2	4.5	Work in progress. Field verification confirms with the width reported by RAP3.

Sample ID	RBG	Lengt	h assigned	l (m)		n meas field (n		Width reported by RAP3	Remarks
		from	to	length	Start	Mid	End	(m)	
4	Masta	8+290	8+330	37.7	4.5	5.3	4.2	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
5	Mahadev	8+245	8+290	46	5	4.8	4.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
6	Phoolbari	8+075	8+105	30	4.9	3.8	3.7	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
	THOOLDAN	8+860	8+925	64.9	4.5	3.5	4.7	3.5	Work in progress. Field verification confirms with the width reported by RAP3.
7	Pragatisil	10+835	10+870	35	4	4.8	4.8	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
8	Jagriti	8+480	8+520	40.5	4.7	5	4.6	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
9	Raramilan	12+515	12+580	65.7	4	4.2	4.8	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
	Karanman	13+910	13+930	20.7	5.5	5.8	5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
10	Gurudev	11+680	11+710	30	3.6	3.5	3.6	2.5	Work in progress. Field verification confirms with the width reported by RAP3.
10	durudev	12+610	12+630	23.1	4.2	4.2	5.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
11	Chankheli	11+700	12+000	30	3.7	4	4.2	3.5	Work in progress. Field verification confirms with the width reported by RAP3.
	CHAIRMEN	14+000	14+040	41	4.4	5.1	4.9	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
12	Mathidhara	15+160	15+220	62	4.1	5.5	5.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
13	Uchhabijay	19+720	19+750	30	5	6.2	6.2	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
	5	20+200	20+240	46.1	6.2	4.6	5.7	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
14	Himal	19+850	19+870	20	4.6	4.6	4.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.

Sample ID	RBG	Lengt	h assigned	l (m)		n meas field (n		Width reported by RAP3	Remarks
		from	to	length	Start	Mid	End	(m)	
		20+280	20+320	39.2	4.6	4.5	6.8	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
15	Laliguras	19+930	19+980	46	4.6	4.9	5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
		20+000	20+020	20	4.7	4.7	6.3	3.5	Work in progress. Field verification confirms with the width reported by RAP3.
16	Silpikar	20+320	20+340	20	6.8	6.8	5.3	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
		20+400	20+420	21.3	5.5	5.5	4.8	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
17	Bijaydev	19+870	19+890	20	4.5	4	4	3.5	Work in progress. Field verification confirms with the width reported by RAP3.
17	bijayuev	20+180	20+200	24.5	6.3	6.3	6.2	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
18	Majghatta	20+380	20+400	20	5.5	5.5	5.5	4.5	Work in progress. Field verification confirms with the width reported by RAP3.
10	iviajgilatta	20+020	20+050	30	6.3	5.3	5.3	3.5	Work in progress. Field verification confirms with the width reported by RAP3.

Annex 4: Employment Days Verification Compilation

Kalikot: Sanighat-Phukot-Syuna-Sipkhana road

		Leng	th assigned	(m)	Employ	ment days	on timeshee	et in field	Emplo	yment day	s reported b	y RAP3	Difference
S.N.	Name of RBG	From	То	length (m)	Jan22- Feb21	Feb22- Mar21	Mar22- Apr21	Total	Jan22- Feb21	Feb22- Mar21	Mar22- Apr21	Total	
1	Srijanshil	2+825	2+866	41	573	526	520	1619	573	506	519	1598	-1%
2	Laligurans	2+580	2+720	40	593	490	509	1592	593	490	508	1591	0%
3	Pipalkot	2+875	2+920	45	482	476	518	1476	499	476	525	1500	2%
4	Bikasit	4+242	4+260	18	487	425	453	1365	505	425	452	1382	1%
5	Simsera	5+260	5+283	23	319	395	394	1108	330	397	378	1105	0%
6	Pardarshi	9+609	9+630	21			414	414			399	399	-4%
7	Latemasto	12+810	12+985	175			371	371			354	354	-5%
8	Bimal	12+462	12+514	52		499	541	1040		485	520	1005	-3%
9	Shantight	13+340	13+400	60		517	549	1066		517	532	1049	-2%
10	Tribeni	14+110	14+123	13		382	488	870		382	507	889	2%
11	Paribartanshil	12+788	12+800	12		400	560	960		400	540	940	-2%
12	Himali	16+592	16+609	17		489	513	1002		489	477	966	-4%
13	Raidhunga	16+706	16+739	33		487	543	1030		503	541	1044	1%
14	Kalika	17+478	17+488	10		482	470	952		482	276	758	-20%
						Gran	d Total	14,865		Gran	d Total	14,580	-2%

Humla: Salisalla - Darma road

Sample ID	Name of RBG	Len	gth assign	ed (m)	Employn	_	s on tim	esheet in	Employr	nent day	s reporte	d by RAP	Difference
		from	to	length (m)	March	April	May	Total	March	April	May	Total	
1	Kot	0+146	0+180	34	151	0	32	183	147	45	48	240	31%
2	Jagatnath	2+750	2+780	30	318	270	0	588	218	303	382	903	54%
3	Talim	4+035	4+053	18	178	73	256	507	223	0	364	587	16%
4	Lamalekh	4+082	4+114	32	0	19	587	606	0	0	342	342	-44%
5	Ratogulab	7+860	7+888	28	403	396	335	1134	306	386	327	1019	-10%
6	Lauttharukh	7+888	7+918	30	486	368	199	1053	423	468	322	1213	15%
7	Aakriti	10+025	10+070	45	274	362	463	1099	276	338	506	1120	2%
8	Vitgaun	10+058	10+102	44	379	317	473	1169	281	438	391	1110	-5%
9	Janajagaran	10+070	10+115	45	422	503	275	1200	553	405	470	1428	19%
10	Samajsewa	11+102	11+132	30	220	499	448	1167	229	440	521	1190	2%
11	Saipal	11+465	11+490	25	220	0	462	682	400	20	241	661	-3%
12	Janajagriti	11+630	11+657	27	351	286	190	827	276	344	340	960	16%
13	Gaurishanker	12+058	12+120	62	324	354	398	1076	147	305	450	902	-16%
14	Mahadev	12+464	12+484	20	498	428	318	1244	423	457	460	1340	8%
15	Gudamadu	13+320	13+334	14	372	227	321	920	227	433	222	882	-4%
16	Kotila	13+692	13+745	53	341	217	361	919	325	339	267	931	1%
							Total	14,374			Total	14,828	3%

Bajura: Maure – Toli - Chatara road

S.N.	Name of RBG	Leng	th assigned ((m)	Employn	nent days o	on timeshee	et in field	Employ	ment days	reported b	y RAP3	Difference
		From	То	length	Jan-16	Feb-16	Mar-16	Total	Jan-16	Feb-16	Mar-16	Total	
1	Jagrati	0+802	0+890	88	436	457	417	1310	431	339	383	1153	-12%
2	Pariwartan	2+190	2+230	40	437	480	480	1397	440	340	460	1240	-11%
3	Jukepani	2+807.5	2+828.5	31	429	523	512	1464	442	367	495	1304	-11%
4	Paurakhi	8+068	8+112	54.5	410	457	457	1324	432	310	445	1187	-10%
5	Nawadurga- kha	4+691	4+129	38	367	479	472	1318	449	331	298	1078	-18%
6	Bhagbati	4+729	4+763	34	378	464	466	1308	392	313	452	1157	-12%
7	Sivashankar	5+113	5+335	22	421	454	475	1350	415	295	458	1168	-13%
8	Saraswati	8+618	8+628	10	387	554	413	1354	450	258	398	1106	-18%
9	Phulbari	8+992	9+011	19	375	615	438	1428	396	477	457	1330	-7%
		9+705	9+727	22									
10	Samabeshi	11+474	11+494	20	372	543	346	1261	405	412	394	1211	-4%
11	Sahasi	11+495	11+523	28	412	557	443	1412	411	443	418	1272	-10%
12	Misrit	10+362	10+386	23	388	508	399	1295	435	404	364	1203	-7%
13	Sanigadha	13+537	13+584.5	47.5	361	273	301	935	394	383	251	1028	10%
14	Pipal Chautara	13+366	13+396	30	214	169	367	750	297	169	244	710	-5%
15	Bandali	13+895	13+970	85	324	437	389	1150	319	286	417	1022	-11%
16	Chalnegada	14+661	14+716	55	371	375	389	1135	401	277	377	1055	-7%
						Grand	d Total	20,191		Grand	l Total	18,224	-10%

Mugu: Gamgadhi - Dhaina - Dhulachaur road

Sample ID	Name of RBG	Len	igth assigne	ed (m)	Employ	ment days fiel	on timeshe d	eet in	Employ	ment days	reported b	by RAP3	Difference
		from	to	length (m)	16-Jan	16-Feb	16-Mar	Total	16-Jan	16-Feb	16-Mar	Total	
1	Chandrodaya	5+640	5+660		216	357		573	214	320		534	-7%
		5+710	5+730										
		8+600	8+640	76.8									
2	Kalasilta	8+640	8+680	36.8	234	233		467	216	252		468	0%
3	Kalika	8+520	8+560	39	148	107		255	128	98		226	-11%
4	Masta	8+290	8+330	37.7	221	170		391	326	231		557	42%
5	Mahadev	8+245	8+290	46	214	297		511	199	301		500	-2%
6	Phoolbari	8+075	8+105										
		8+860	8+925	94.9	245			245	221			221	-10%
7	Pragatisil	10+835	10+870	35	197	318		515	209	317		526	2%
8	Jagriti	8+480	8+520	40.5	347	197		544	352	214		566	4%
9	Raramilan	12+515	12+580		433	467		900	415	467		882	-2%
		13+910	13+930	85.7									
10	Gurudev	11+680	11+710		335	259		594	353	351		704	19%
		12+610	12+630	53.1									
11	Chankheli	11+700	12+000		313	397		710	316	394		710	0%
		14+000	14+040	71									
12	Mathidhara	15+160	15+220	62	345	224		569	372	313		685	20%
13	Uchhabijay	19+720	19+750		434	386		820	405	501		906	10%
		20+200	20+240	76.1									
14	Himal	19+850	19+870		309	266		575	0	27		27	-95%
		20+280	20+320	59.2									
15	Laliguras	19+930	19+980	46	434	431		865	424	470		894	3%
16	Silpikar	20+000	20+020		396	368		764	362	368		730	-4%
		20+320	20+340										

		20+020	20+050	50		Grand	d Total	4,975		Grane	d Total	4,433	-11%
18	Majghatta	20+380	20+400		386	308		694	52	449		501	-28%
		20+180	20+200	44.5									
17	Bijaydev	19+870	19+890		330	358		688	303	387		690	0%
		20+400	20+420	61.3									

Annex 5: Examples of signed RBG Attendance Records for Employment Days

Kalikot – Nepali month of 'Falgun'

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Bajura – Gregorian month of December

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