

THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF AGRICULTURE FOOD SECURITY AND COOPERATIVES



AGRICULTURAL SECTOR DEVELOPMENT PROGRAMME
IRRIGATION DEVELOPMENT SUB-COMPONENT

**THE STRATEGIC ENVIRONMENTAL AND SOCIAL ASSESSMENT (SESA)
FOR THE NATIONAL IRRIGATION MASTER PLAN (NIMP) AND THE
NATIONAL IRRIGATION POLICY (NIP)**

COMMENTS RESOLUTION SHEET

25TH APRIL 2011

SUBMITTED BY

THE CONSULTANT: SMEC INTERNATIONAL Pty Limited
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COMMENT RESOLUTION FORM

Ref.	Comments	Informal Response and Action to Comments	Amendment Status	Reference Section /page No
A. GENERAL COMMENTS				
1.	The consultant should note that comments raised by stakeholders are not exhaustive; therefore the consultant should thoroughly go through the documents to accommodate all issues of concern.	Went through the entire documents	Y	Throughout the report
2.	The Executive Summary should be prepared after accommodating all comments (from client and stakeholders').	Produced from final text	Y	Volume I
3.	It appears the Table of Contents (TOC) for both Volume II and III was typed manually. The consultant should automatically generate the TOC up to level 2.	TOC generated automatically up to level 2	Y	TOC
B. COMMENTS FROM THE STAKEHOLDERS WORKSHOP HELD IN MOROGORO ON 6TH APRIL 2011				
1.	The methodology adopted by the consultants to pool the policy statements together could lower or hide some important policy statements. This is of major concern since each policy statement has its own implications. Pooling them together tends to remove the statements with critical implications.	Most of the policy statements are repetitive; attempt was therefore made to carefully group them into policy themes with strategic elements capturing all the important policy messages.	Y	Section 5.4
2.	The policy statement were too many and it would take longer time to analyze all of them thus grouping was done carefully so as not to miss important policy message.	This was a response from the Consultant on stakeholders' comment no. 1	Y	Section 5.4
3.	What are the key policy statements that require immediate attention?	The key policy statement that require immediate attention have been identified and listed in the report	Y	Section 12
4.	Since the NIP and NIMP already exist, is this SESA or Environmental Audit/Appraisal?	Normally, the NIMP would have been prepared after the adoption of the NIP. However, as this was not the case, the NIMP will have to be updated to align	Y	Section 1.1

- Y Amended in accordance with comments.
P Partly amended in accordance with comments - refer SMEC response.
N Not amended - refer SMEC response.
N/A Amendment not required.

		itself with the NIP to ensure that it becomes the operational tool for implementing the NIP.		
5.	The information on availability of water and issues of climate change can guide the consultant on how best to reach to the best alternative.	Water availability and climate change were among the factors considered in generating alternatives	Y	Sections 2.2.8; 8; 9.4.2
6.	The consultant should identify areas where there are critical environmental issues such as water stress and advice accordingly future irrigation investment in such areas.	Wherever there is water stress or critical environmental issues strategic mitigations have been suggested. However during review of NIMP, such areas can be demarcated	Y	Section 10
7.	SESA should state exactly what type of irrigation methods to be employed in mostly affected areas. It should state the requirement of water quantification before recommending any irrigation methods to be use.	SESA concentrated on strategic environmental and social issues. However, the type of irrigation methods would be identified during the review of NIMP.	Y	N/A
8.	Where there is adverse effects of drought due to climate change other efficient means of water use such as deficit irrigation should be a mandatory.	Coping mechanisms have been suggested.	Y	Sections 10, 11 & 12
9.	Some irrigation projects can be accepted by community where tradition and cultural behavior support it, but if irrigation is expected to be introduced in places where culture does not support; it is obvious that the irrigation project shall fail.	Awareness creation has been suggested.	Y	Sections 10, 11 & 12
10.	Is SEA considering the cultural/behavior issues as a barrier to some of the proposed irrigation potential?	YES	Y	Sections 7.11.8 & 12.2
11.	If No what can SEA conclude about peoples' behaviour change towards new technology on farming?		Y	N/A
12.	From the SESA study, what critical areas or basins should be considered for the following? a. Further irrigation development. b. No longer suitable for further irrigation development (new ones). c. Restrict irrigation development.	Strategic mitigations/ recommendations have been made to reflect the issues under a, b, c. However, to map such areas would be done during the review of NIMP.	Y	Sections 7.10; 10, 11, 12

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13.	Stakeholders consulted list include (at National level): a. Ministry of Energy and Minerals. b. Ministry of Health and Social Welfare. c. National Environment Management Council(NEMC) However, the above stakeholders are not listed in the Annex as being consulted.	Only contacted Ministries included	Y	Section 2.2.5 and Appendix 10
14.	Cumulative impacts resulting from construction of dams at different scales is done by three major institutions i.e. Livestock, Water Resources and Irrigation Department. If this proceeds like the way it is, SESA should give directives on how they shall be managed to reduce cumulative impacts. The issue of residence impact in places where the mitigation was not full covered, is not mentioned anywhere. Does it not exist in this SEA or omitted?	SESA recommends that DDCA should coordinate the dam construction and conduct EIA for all dam projects	Y	Sections 3.4.1.4; 3.4.2.1; 9.4.2
C. GENERAL COMMENTS ON THE INSTITUTIONAL SET UP				
1.	The proposed directorate on projects should reflect private sector	Reflected	Y	Section 11
2.	The zonal irrigation Units must have a reflection of the HQ set up.	Reflected	Y	Section 11
3.	The structure seems to be loaded at the headquarters. Need to reduce the number of Assistant Directors.	Done	Y	Section 11
4.	The structure should be small at the headquarters with more strengthening at the zones	Done	Y	Section 11
5.	There should be a way of changing the academic research into action. A statement should state how to enforce these researches and the source for funds for this section.	Done	Y	Section 11.3.1
6.	Currently Irrigation has been under the Ministry of Agriculture, Food Security and Co operatives. It has been shifting from one Ministry to another. There is a need for a much robust and stable institutional set up in order for Irrigation to carry its functions more efficiently and effectively.	A commission responsible for irrigation has been recommended.	Y	Section 11
D Specific Comments				
1.	Cover page Full date of submission should be indicated	Done	Y	Cover page
2.	Roman numeral pages Should be continuous up to before introduction	Done	Y	Numeral pages

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3.	Page I Insert the word “the” before the word “Ministry” Replace the word SESA with “Consultant” to read Consultant Team	Done	Y	Page i
4.	Page iii The table of content was typed manually. It should be generated automatically to reflect the required levels up to level 2	Done	Y	TOC
5	Page ii ACKNOWLEDGMENTS <ul style="list-style-type: none"> • Para1, fourth line: insert the word “the” before Division; the word “Directo” should read as “Director” • Para ii, the word DC, DED, and DALDO should read DCs, DEDs and DALDOs respectively. • Para ii, sixth line: the word “advises” should read “advices”. The words “farmers and irrigation” should read “farmers and Irrigators” Organisations (IOs). 	Done	Y	Page ii
6	Page viii Check the Acronym NOECD <ul style="list-style-type: none"> • There are still some Abbreviations which do not appear in the list of Acronyms e.g IMT on page 64 	Done	Y	Page viii
7.	Page 1 Para 2 the word small holder should be one word “smallholder” Last para: replace the is with “was”	Done	Y	Page 1
8.	Page 2 Section 1.2 first para SESAs both.....add the word address so as to read “SESA address both”..... Last para, last line insert the word (SEA) after Assessment.	Done	Y	Page 2
9.	Page 3 Table 1.2 S/N 5, column 2 and 3: the words focus should be focuses	Done	Y	Page 3
10.	Page 5 Section 1.5.1 para 1 write the word URT in full. <ul style="list-style-type: none"> • Section 1.5.1, first para, last sentence should be replaced by the following sentence; “The URT would like the subsequent implementation of the NIMP and the newly formulated NIP takes on board the following” • Section 1.5.2 check appropriate year(SEAR 2009???) • Section 1.5.3, ii:delete the word “those of” 	Done	Y	Page 5
11.	Page 6 Section 1.5.4; Replace water resource with water resources on the heading. Write IWRM in full	Done	Y	Page 6
12.	Page 7 Section 1.7 Line from topsection 8 presents an analysis add the word “of”. <ul style="list-style-type: none"> • Line 4 from bottom.....section nine presents.....potential impacts....delete the word “and section”..... • Second line from bottom: Delete the word draft 	Done	Y	Page 8

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13.	Page 8 Section 2.1 roman i and ii delete the word “To” include it incapacity in order to: <ul style="list-style-type: none"> Line 3. SESA assess should read “SESA assesses” Second para from the bottom the last word should be replaced by implementation. 	Done	Y	Page 9
14.	Page 9 Please replace water resource with water resources.	Done	Y	Page 10
15.	Page 10 Section 2.2.3: please review the last sentence	Done	Y	Page 12
16.	Page 11 Section 2.2.5; the word Stakeholders should read stakeholders’. Align roman numbers and contents <ul style="list-style-type: none"> Roman ii....settlement should read settlements 	Done	Y	Page 13
17.	Page 12 Section 2.2.6 replace ASLM with ASLMs; second para remove the letter “t” <ul style="list-style-type: none"> Please mention the inception dates Para 1 and 2 Appendix 1 referred in this para is not correct. Appendix 1 is GIS maps. 	Done	Y	Page 13
18.	Page 13 Delete the word scales after the word lunch(large)	Done	Y	Page 15
19.	Page 16 Last para the referred table 2-2 is not seen in the document. <ul style="list-style-type: none"> Second line form top the word disease should be diseases. Section 2.3 roman vii insert the word irrigation after the word Commercial 	Done	Y	Page 18
20.	Page 17 The roman numeral viii should be deleted. It is just a sentence explaining about the above bullets. <ul style="list-style-type: none"> Explain why schemes in roman ii and iv were not visited Table 2-1): Insert the word “improved” under type for Nyatwali scheme 	Done	Y	Page 17
21.	Page 18 Table 2-1: Item 21 - delete the word “Mto wa Mbu” and open the brackets <ul style="list-style-type: none"> Section 2.4, second line, insert the word “in” before the word “figure” 	Done	Y	Page 20
22.	Page 21 Section 3.2, first sentence: replace the word “policies” with “policies”	Done	Y	Page 23
23.	Page 22 Table 3-1, item no 3, the name of the ministry ends with the word “cooperatives”	Done	Y	Page 24
24.	Page 23 3 rd para: provide a space between the words “The” and “National”	Done	Y	Page 25
25.	Page 28 Section 3.4, the 1 st sentence, insert the word “through” after the word “regulated”	Done	Y	Page 31
26.	Page 30 2 nd para, second line from the bottom, the word environmental should be replaced with the word environment	Done	Y	Page 33
27.	Page 33 First para, the words written does not reflect relevance to SESA <ul style="list-style-type: none"> Para 3, 3rd line, the word Tanzanian should be Tanzania Section 3.4.1.12, the words “water resource” should be replaced with “water resources” 	Done	Y	Page 36

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28.	Page 34 Bullet ii at the top of the page the word “investigated” should be replaced by the word “investigate”. • Third line - The quotation under inverted commas should be indented italicised.	Done	Y	Page 36
29.	Page 35 First para, 3 rd line: replace “they” with “the”	Done	Y	Page 37
30.	Page 36 Section 3.5, the last word should be replaced with “indicated below” • Section 3.5.1, first para – replace “State Minister” with “Minister of State”	Done	Y	Page 39
31.	Page 37 Section 3.5.3, roman iii – replace the word “environmental” with “environment” Section 3.5.5: the referred Section 13 is not seen in the document	Done	Y	Page 39/40
32.	Page 38 Section 3.5.8: second para – second line; either the names of the cities be deleted or mention all cities	Done	Y	Page 41
33.	Page 39 Third para: should read as “In accordance with EMA (Cap 191) the Cities, Municipals, Districts, and Town Councils are headed by Environmental Management Officers who are responsible for environmental matters” • Align bullets • Para 3, roman ii – the word “advise” should be replaced with the word “advice”	Done	Y	Page 42
34.	Page 43 Table 3-2: In its heading, insert the word “participation” after the word “Tanzania” • Column 2, row 1: the heading should be “International commitments/agreements” • The key is not relevant as all commitments are indicated as signed and ratified. • Item 4; replace the words “is a protocol aimed” with “which aims” • Section 3.7.2: replace the words “in corporate” with “incorporated”	Done	Y	Page 45
35.	Page 45 Section 3.8: first para, last line –The referred Section 15 is not seen in the document. • Table 3-3; item 7, 4 th column, second line – the word “maintenance” should be deleted.	Done	Y	Page 48
36.	Page 48 Section 3.10.2: first line - insert the word “under” before the word “part” • 3 rd para, second line – replace the words “shall be” with the word “is” • Para 4: first line, replace the words “shall be” with the word “is” • Para 4, line 2: delete the word “shall” • Para 4, line 3: the word “ensure” should be replaced with the word “ensures” • Last para: first line – delete the word “shall” and replace the word “submit” with the word “submit”	Done	Y	Page 52
37.	Page 49 Romans i to v at the bottom standing alone or a continuation of roman vi above? The issues under roman vi should be included in the text instead of itemizing them.	Done	Y	Page 52/3

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38.	Page 50 Section 3.11: Add the word “Environment” after the word “Regulatory”.	Done	Y	Page 53
39.	Page 52 Section 3.11.6: first line – insert the words “Water Users Associations” after the word “that” and the words “WUAs” should be in brackets. Insert section 3.11.7 to discuss on Irrigators Organizations and their relevance to irrigation.	Done	Y	Page 62 Section 3.14.7
40.	Page 55 Last para: second line – the word “directions” should be deleted	Done	Y	Page 59
41.	Page 57 Section 3.13.4, second line: insert the word “aspects” after the word “economic”.	Done	Y	Page 60
42.	Page 58 Section 3.14.1, last para; second line – put a full stop after the word “societies”, the remaining words should be deleted. The subsequent sentence should be “It is considered that irrigators associations are more proper as they indicate more dedication to irrigation interventions” Section 3.14.1, first para, roman v: insert the word “irrigation” before the word “infrastructure”	Done	Y	Page 61
43.	Page 59 Section: 3.14.9; first line: the words “water user organization” should be deleted.	Done	Y	Page 63
44.	Page 60 Second para, last line: The referred basic structure of the organization is not seen in the document.	Done	Y	Page 63
45.	Page 62 Section 3.17 first line: delete the words “the EMA” after the word “WRMA” Last para; first line: the word “Environmental” should be replaced by the word “Environment”	Done	Y	Page 65
46.	Page 64 Last para: firth line delete the word but and the word emphasis be replaced by emphasises.	Done	Y	Page 67
47.	Page 67 Item 9; 2 nd column, replace the word of with for	Done	Y	Page 70
48.	Page 68 Item 15 column 3 replace the word generally with general and the word facilitate with facilitating.	Done	Y	Page 71
49.	Page 69 Item 18: column 2 add the following issues of concern “most of irrigation canals are not lined and lack of on farm road”. Item 19: fill potential negative impact missing; Column 4 delete the last bullet. Add the following loss of irrigation water, destruction of farms when undertaking irrigation activities. Item 20 column 3 replace the word “axcerbate” with exacerbate	Done	Y	Page 72
50.	Page 72 Item 34 unclear institution set should have more impacts.	Done	Y	Page 75
51.	Page 73 Item 39 column 3: Add unavailability of the a package comprising design, land title deeds, water use permit and fully or partially developed irrigation systems	Done	Y	Page 77

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52	Page 76 Section 4.4: last sentence section 2.2.4.4 is missing!!!	Done	Y	Page 79
53	Page 77 Para 1 line 4: add the following words “among other areas” after the bracket.	Done	Y	Page 80
54	Page 79 Table 5.1 heading of the table: replace “statement” with statements	Done	Y	Page 82
55	Page 82 Roman iv replace “resource” with resources	Done	Y	Page 85
56	Page 83 Section 5.5 heading: insert the word Policy after the word significance	Done	Y	Page 86
57	Page 84 Section 6.1 replace the word “in-odder” with in order Section 6.2 replace the word “stages” with phases. Replace the word stage by phase.	Done	Y	Page 87
58	Page 85 Roman v item 5 last column the word “lake Rukwa” be replaced with Indian ocean	Replaced	Y	Page 88
59	Page 87 Section 6.4 last line Appendix D referred to is not in the document	Replaced with Appendix 1	Y	Page 90
60	Page 88 Section 6.5 rephrase the heading to read: National Irrigation Master Plan lessons learnt from the implementation of the National Irrigation Development Plan (NIDP) 1994Y First line delete the word “these” Sixth line should read: the NIMP proposes two approaches to deal with the constraints. These are:	Done	Y	Page 91
61	Page 89 Baseline data: The abstract of GIS information is not provided to be part of chapter seven despite the fact that the consultant was asked to do so earlier. Provide a map showing Ramsar sites	GIS Maps are provided in Appendix 1 including a map of Ramsar site. However, detailed spatial coverage could be mapped during the review of NIMP.	Y	Appendix 1
62	Page 96 3 rd para, second line: replace the words “soil is” with “soils are” 4 th para, 1 st line: replace the word “soil” with the word “soils”; and replace the word “agriculture” with the word “agricultural”	Done	Y	Page 100
63	Page 98-99 In Table 7-4 wherever applicable replace km2 with km ²	Done	Y	Page 103
64	Page 100 Section 7.6.8 should start with a proper preamble on water quality. Roman numeral <i>i</i> , second line; replace “unit” with “units” and replace “effluent” with effluents; last line: please replace the word “complies” with the word “comply”;	Done	Y	Page 105
65	Page 101 Section 7.6.8, third para, the third sentence (this mechanism.....) – the sentence is not complete. Section 7.6.9, second para, first line: please insert the following words after (WLS) “of the Ministry of Water”.	Done	Y	Page 105/6

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66	Page 102 Section 7.8, last para: the definition of irrigation development is not exhaustive, so please recast.	Recast	Y	Page 107
67	Page 103 Section 7.10: Scientific names should be italicized. Section 7.10.1, first para: please provide source of data.	Italicized Done	Y	Section 7.10 Page 108
68	Page 104 First para, fourth line from top: replace "eh" with "the"	Done	Y	Page 108
69	Pages 106 – 115: Make corrections accordingly on the section numbering whereby Terrestrial Flora will be 7.10.2; Aquatic Flora will be 7.10.3; Aquatic Fauna will be 7.10.4; Sensitive Habitats will be 7.10.5; Wildlife Corridors of Tanzania will be 7.10.6; Natural Sites of Significant Size will be 7.10.7 etc. etc.	Done	Y	Page
70	Page 106: Section 7.10.1.10; second line: replace "manly" by "mainly"	Done	Y	Page 111
71	Page 108: Section 7.10.3.2, first line: species names should be in italics	Done	Y	Page 113
72	Pages 103 – 109: The referred appendices 14 and 15 are not in the document.	Removed	Y	Page
73	Page 109: Section 7.10.3.7: first line: replace "It" with "This basin" Section 7.10.4, first para, third line from bottom: replace "protectvite" with "protective"	Done	Y	Page 113
74	Page 110 Section 7.10.4.5: recast the entire section because (1) Nyumba ya Mungu appears in both large reservoirs and medium to large reservoirs (2) the message in the second sentence is contradicting the first sentence. As of to date we have more man-made wetlands including the following dams, Msoga (Bagamoyo), Ulyanyama (Sikonge), Igigwa (Sikonge), Mwamapuli (Igunga), Kahama Nhalanga (Nzega), Buigiri (Chamwino), Kisangwa (Bunda), Budushi (Nzega), Chilolwe (Musoma), Ikowa (Chamwino) etc.	Done	Y	Section 7.10.5.5 Page 115
75	Page 111 Map should be large enough and readable – map contents are not legible; map title should read "Tanzania – Major Wetlands"	Done	Y	Page 117
76	Page 112 Para 1, second line: replace the word "Usambera" with Usambara	Done	Y	Page 118
77	Page 114 Section 7.10.11 third sentence: recast because Ulyanyama is not in Kibondo district and the siltation which happened at Ulyanyama scheme is due to floods which came before the construction of the spillway was completed Second line: replace word "promts" with "prompts"	Done	Y	Page 121
78	Page 115 Section 7.10.12 first line: replace the words soil treatment/amendments with proper drainage system. fifth line: delete the words "chemical properties and"	Done	Y	Page 121
79	Page 116 Section 7.11, the last sentence is irrelevant. Item 5, second column: replace the word "Dodoma" with "Central" Item 8, third column: replace the word "Mbalali" with "Mbarali"			Page 124

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80	Page 120 Section 7.11.4; fourth para, the last sentence is not complete	Done	Y	Page 127
81	Page 121 Section 7.11.7.2; first para: the figures quoted are too old. Please refer to recent documents e.g. MKUKUTA II	MKUKUTA II is silent on percentages	Y	N/A
82	Page 122 First para, first line: replace the word “lack” with “inadequate”	Done	Y	Page 129
83	Page 123 Section 7.11.7.4; fishing carried out in the Indian ocean is not mentioned.	Done	Y	Page 131
84	Page 124 Section 7.11.7.7; please beef up this section.	Done	Y	Page 131
85	Page 125 Section 7.11.10.2; please recast and beef up this section. Delete the word “service” that appears first; Section 7.11.10.3: word “surveillance” appears twice; please get rid of one.	Done	Y	Page 135
86	Page 126 Section 7.11.10.4; first para, first line: insert proper abbreviation in the bracket. Section 7.12.2; second para: talking about different thing – recast.	Done	Y	Page 135
87	Page 127 First para, last sentence: what is meant by “urbanized districts”? Section 7.12.3; first para, third line: replace the word “agrichemicals” with “agrochemicals” Section 7.12.3; the sentences in roman <i>i</i> to <i>v</i> should start with capital letters.	Done	Y	Page 135
88	Page 128 Last para, last line: the word “provide” should be replaced with “provided”	Done	Y	Page 136
89	Page 130 Third para, third line: the two words “banded” should be replaced with “bunded”	Done	Y	Page 142
90	Page 135 Table 9-1: on the potential positive impacts and potential negative impacts, where there are more than one items, they should be numbered for easy reference	Done	Y	Page 143
91	Page 136 Table 9-1: the last row should be numbered	Done	Y	Page 144
92	Page 137-138 Table 9-2: from item 11 – 15, please provide the potential negative impacts, if any.	Done	Y	Page 146
93	Page 138 Section 9.3, first para; third line: please replace the word “services” with “welfare” Second para: the words “initiates the incidence of disease” be replaced with the words “causes potential incidence of diseases”	Done	Y	Page 146
94	Page 139 Section 9.4: roman <i>vii</i> is blank	Done	Y	Page 148
95	Page 148 Section 11.1, the first line: insert the word “the” after the word “during” Section 11.2.1: the words under the roman numerals should start with uppercase letters.	Done	Y	Page 158
96	Page 149 Section 11.2.2 replace DIT and ZIU with DITS and ZIUs	Done	Y	Page 159
97	Page 150 Last paragraph: replace DITs with DITS.	Done	Y	Page 159
98	Page 158 Section 11.4: the heading should be of title case	Done	Y	Page 167

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N/A Amendment not required.

99	Page 162 Section 11.6.2: the heading should be of title case	Done	Y	Page 172
100	Page 164 Section 11.7 and 11.7.1: the heading should be of title case	Done	Y	Page 174
101	Page 166 Table 11-1: estimated monitoring costs are not indicated in some rows	Does not require any cost	Y	Page
102	Page 178 Section 12.1, second para, third line: please replace the word "lack" with "have inadequate"	Done	Y	Page 190
103	Page 179 Section 12.2, roman i: delete the word "and" after the word "develop." Roman <i>i</i> at the bottom, second line: please replace the word "district" with the words "local government"	Done	Y	Page 191
104	Page 180 Second para - (If DITS has...): This paragraph should be replaced with the following: For the above issues to be tackled effectively, a semi-autonomous institution has to be in place. Ever since the irrigation was institutionalized, it had been moving from one Ministry to another, and of recent, in November 2011 it moved back to the Ministry of Agriculture Food Security and Cooperatives from the Ministry of Water and Irrigation where it stayed for only 33 months. If the irrigation institution becomes autonomous it can perform its functions effectively and efficiently. Fourth para, fourth line from the top: replace the word "necessary" with the word "necessarily" and delete the words "to be". The last sentence should be replaced with the following – the proposed organization structure was modified to represent a more effective institution with a clear line of command. Para 5: the word "must" should be replaced with the words "have to" The fifth and sixth para: replace the words "DITS and the Ministry" with the words "the institution"	Done	Y	Page 192
105	Page 182 First para, third line: the words "DITS and the Ministry" be replaced with "the institution"	Done	Y	Page 194

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