



THE REPUBLIC OF UGANDA

## **REPORT ON PUBLIC EDUCATION AND AWARENESS FOR PROTECTION OF RIVER NYAGAK CATCHMENT IN ZOMBO DISTRICT, WEST NILE SUB-REGION**



**A cross section of participants in the Public education and awareness meeting at Nyagak village, Thanga Parish, Abanga Sub County 24<sup>th</sup> November 2017**

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**NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY**

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# **REPORT ON PUBLIC EDUCATION AND AWARENESS FOR PROTECTION OF RIVER NYAGAK CATCHMENT IN ZOMBO DISTRICT, WEST NILE SUB-REGION**

## **1.0 Introduction and Objectives of the Public education and awareness**

### **1.1 Introduction**

River Nyagak is an important river in West Nile Sub Region. The River runs through Zombo, Nebbi and Arua Districts and flows into River Ora that empties its water into River Nile (Albert Nile). Nyagak River has potential for hydroelectricity power generation. In line with the Ugandan government's plans for the decentralization and privatization of hydropower systems, the first dam (Nyagak 1) producing about 3.5 megawatts was constructed. West Nile Rural Electrification Company (WENRECO), a subsidiary of Industrial Promotion Services, developed the power plant.

Feasibility studies and EIAs were conducted for Nyagak II expected to produce 5 megawatts of power and Nyagak III expected to produce 5.5 megawatts. The construction for the two power stations started in 2015 and are expected to last three years, with commissioning anticipated in 2018.

The power produced from Nyagak serves a population exceeding one million people in Arua, Nebbi, Zombo, Maracha, Koboko and Yumbe Districts.

Two main challenges affecting the production of electricity from Nyagak dam are climate change and degradation of the river catchments. The catchment degradation is through unsustainable human activities such as subsistence agriculture, brick making, cattle grazing without taking into consideration the carrying capacity, sand mining, harvesting of materials for making baskets, roofing materials and wood fuel that lead to siltation of Nyagak River. For example, River Nyagak is threatened up stream because a number of wetlands including Ayuda, Adida, Amuda, Leda, and Ceda that feed the river with a lot of water are being degraded due to subsistence agriculture.

Uncontrolled tree cutting/deforestation is another major problem. Nearly 100% of the population in Zombo and Nebbi Districts use tree resource for cooking either in form of charcoal or fuel wood. A lot of trees and other woody vegetation cover have been depleted through environmental malpractices such as commercialized charcoal and brick burning, bush burning, cultivation and excessive tree cutting. All this exposes the soils to erosional forces and hence siltation of River Nyagak, consequently reduced power production.

One of the issues responsible for the continued degradation of River Nyagak banks and catchments is low community awareness/participation in the protection of the fragile ecosystems. Local Governments were expected to create the awareness, however, due to resource constraints, they have done little to sensitize the communities. Hence NEMA undertook the mantle to conduct sensitization of the community members and their leaders aimed at promoting the protection of River Nyagak Catchments.

## **1.2 Objective and outputs of the Activity**

### **1.2.1 Objectives**

The education and awareness programme was aimed:

- (i) To sensitize the community and leaders on fragile ecosystems restoration and environment protection to enable them influence and promote positive interventions towards the protection of River Nyagak catchments;
- (ii) To introduce the concept and practice of community based natural resource management to enable local communities directly engage in the management of the environment and natural resources and
- (iii) To consult closely with the community representatives and formulate community action plans for the restoration and protection of River Nyagak.

### **1.2.2 The output of the activity**

- a) **316** Community members (registered) mobilized and sensitized on ecosystems restoration and environment protection. 82 of those who registered were female while 234 were male.
- b) Community action plans/way forward developed/agreed upon for implementation;
- c) Degraded sites identified for restoration;
- d) Report produced and to be shared with the District and Sub county leadership.
- e) Disseminated for effective environment management.

## **2.0 Proceedings of *the public education and awareness carried in Zombo District***

The activity was implemented through the following methods:

1. Holding of discussions with the District leadership and the leadership of Nyapea Sub County.
2. Holding of community Barazaas to carry out the awareness on the protection of the fragile ecosystem
3. Holding of a radio talk show

## **2.1 Meeting with the Zombo District Leaders held on 23rd November 2017**

One-day meeting was held with District Leaders represented by both Technical Planning Committee Members and Political Leaders. The meeting that was attended by 15 participants was held in the District Executive Committee Boardroom. The meeting was an entry meeting into the District and aimed at interesting the District leadership for protection of River Nyagak and implementation of decentralized environment management in general. Below are highlights of the meeting:

### **Opening remarks**

The representative of the Chief Administrative Officer (CAO), Mr. Jakech Charles opened the meeting. After prayers and self-introductions, he made the following remarks:

- He was happy that NEMA came to Zombo to support the District in the area of environment management particularly management of the River Nyagak Catchments.
- He informed NEMA team that public education and awareness is key in management of fragile ecosystems because the local communities who are the users of the resources are not aware of some of the dangers of the activities been undertaken.
- He identified land fragmentation as one of the challenges in group tree planting that can be supported by other programmes such as NUSAF III.
- Noted that River Nyagak is shared by Uganda and the Republic of Congo and there is such degradation in the Congo side.

### **Brief by the District Support Manager NEMA**

The District Support Manager NEMA Mr. Edward Odipio:

- Acknowledged the welcome extended to the NEMA team by the leadership of Zombo District;
- Commended the District for having recruited additional Environment Officer at Senior level;
- Urged the District, with time to fill all the positions in the District Natural Resources Department and more so operationalize the Local Environment Committee at all levels
- Outlined the purpose of the visit to the District and the programme for conducting awareness for the protection of River Nyagak Catchments;
- Highlighted the importance of River Nyagak for the people of West Nile as far as power generation is concerned;
- Noted the causes of degradation of the catchment areas and impacts on electricity generation;

- Further noted that the population of West Nile sub region will judge the degraders harshly if the river is suffocated to the extent that it will not be able to produce the expected electricity;
- Noted that action needs to be taken at all levels (Community, Sub County and District levels) for the protection of the Nyagak river;
- Urged the District to promote environment management through environment mainstreaming in all programs in the District

## **Discussions and the way forward**

- a) Nyagak river water level is reducing/ dropping and there is need to promote tree planting in the catchments. The district will allocate some funds in the budget of 2018/19 Financial Year for tree nursery raising and tree planting. One source of funds identified was NUSAF 111.
- b) It should be made mandatory that all Local Government Institutions (Schools, Health Centres, Administrative Centres) plant trees at least at the boundaries;
- c) The level of environmental awareness and literacy needs to be raised. Environment awareness should be integrated in all the district programs and activities;
- d) Schools over utilize the tree resources and therefore, there is need for them to plant more trees for those having big pieces of land and should have energy saving stoves. Education Department to make follow ups and report to District Technical Planning Committee on regular basis.
- e) Natural Resources Department should be supported to continue awareness programs on the catchment protection and enforcement of the environmental laws.
- f) As a social responsivity the District should request WENRECO to include tree planting in their programs. CAO to follow up with the Power Company.

## **Recommendations for NEMA**

The following recommendations were made to NEMA from the meeting:

- a) Due to resource constraints NEMA should support and provide technical backstopping to Zombo District in the area of Environment management.
- b) NEMA should support restoration activities in the District through micro projects implementation that demonstrate sustainable wetlands protection/restoration.
- c) There is need for monitoring of Community activities and enforce the environmental laws, resources allowing, NEMA should provide a means of transport for Natural Resources Department in Zombo.
- d) NEMA should liaise with Ministry of Water and Environment to support demarcation of critical wetlands that feed River Nyagak.

## **Closing remarks**

The Closing remarks were said by the District Vice Chairperson Hon. Joan Giramia

- The Vice chairperson thanked all the participants for coming for the meeting called at a short notice and the facilitators for the good work done to discuss issues of environment management.
- She thanked NEMA on behalf of Zombo District Local Government for prioritizing protection of River Nyagak.
- She noted that the issue of River Nyagak is a serious one since most local communities lack enough knowledge about environment protection and the protection zones for the rivers;
- Noted that to educate and promote awareness among the local communities is crucial in the protection of River Nyagak that is been degraded
- She unanticipated that the local communities will come and get more knowledge about the protection of river Nyagak and other resources that they always interact with in every day livelihood struggles.
- Observed that trees are been cut down without replacement and therefore, the need to come up with restoration activities.
- With the above she closed the meeting and wished a safe journey and good interactions with the local communities in Zombo district.

## **2.2 Public awareness and education (community meetings)**

4 (four) community meetings aimed at raising awareness about the protection of River Nyagak and its catchments were held in Zombo District. The meetings were in villages where systems are being degraded. The meetings were conducted in both English and Alur, the local language in the District. The Natural Resources Officer of Nebbi District was the translator in all the meetings.

The agenda of the meetings was as follows:

- a) Prayers
- b) Introductions
- c) Address by the NEMA team
- d) Discussions and way forward
- e) Closure

## **Venue of the meetings**

The venues of the meetings were:

- i. Okwalo village, Patetek Parish, Jangu-koro sub county
- ii. Nyagak village, Thanga parish, Abanga and Nyapea Sub counties.
- iii. Songeya village, Leda parish, Athuma Sub county
- iv. Mavura Primary School, Mavura Village, Abanga Parish, Athuma Sub county

### **Participation in the meetings**

The meetings were attended by the local community members, Local Council Official at LC I, II and III levels and Sub County Technical Committee members.

### **Proceedings of the meetings**

**Prayers:** In all the meetings, prayers were said by one of the participants in the meeting.

**Introductions:** Facilitators and Sub County Officials introduced themselves by name and title. The community members were introduced by the village of residence.

### **Address by the NEMA team**

Address by NEMA team leader

- a. The NEMA team leader welcomed the Sub county chiefs, Local Council Officials and the local communities to the awareness meetings.
- b. Reminded the participants of the mandate of National Environment Management Authority (NEMA).
- c. NEMA is a semi-autonomous institution, established in May, 1995, under the National Environment Act, Cap. 153, and became operational in December 1995, as the principal agency in Uganda, charged with the responsibility of coordinating, monitoring, regulating and supervising environmental management in the country. NEMA spearheads the development of environmental policies, laws, regulations, standards and guidelines; and guides Government on sound environmental management in Uganda.
- d. Environment management has been decentralized to districts and communities. NEMA is in the District to support in carrying out awareness on the management of River Nyagak.
- e. Community members likewise are responsible for environment management hence their involvement in the awareness programme.
- f. Outlined the importance of Environment and Natural Resources to Ugandans.
- g. Uganda is very rich in Natural resources and our economy is natural resources based. Over 79% of the population is rural so they depend on Natural resources for their survival 90% of the energy required come from natural resources, 100% of the exports we have come from natural resources and over 66% are employed in agriculture sector.
- h. Further outlined the importance of River Nyagak for producing electricity consumed in West Nile Sub Region. However, the capacity of producing electricity

is being jeopardized due to degradation of catchments including the wetlands that recharge the river.

- i. Our agriculture is entirely relies on nature, is rain fed with little inputs like fertilizers.
- j. Identified deforestation, wetlands degradation for subsistence agriculture, sand mining, poor land use /agricultural practices as the main causes of the degradation.
- k. Replacing indigenous tree species with eucalyptus trees especially in the wetlands contributes in draining of the wetlands.
- l. Reminded the community about Zombo District (by then Okoro County) being a food basket for West Nile Sub region which is no longer the situation due to environment degradation and climate change.
- m. Informed the communities about the protection zones for Rivers and Lakes with emphasis on 30 metre protection zone for River Nyagak,
- n. The need to get permits for carrying out regulated activities in the sensitive environmental areas,
- o. Emphasized sustainable harvesting of wetlands resources and carrying out of traditional uses of wetlands,
- p. Informed the meetings of the presidential directive to vacate the wetlands. Wetland degraders should have left by 1<sup>st</sup> July 2017.
- q. Ended by educating the community of legal frameworks for management of the sensitive environmental areas.
- r. Urged the communities and their leaders to enforce the laws and regulations.

The **SEEO**, campaigned for tree planting in all the meetings.

- a) That local communities should plant trees for income, help in protection of resources like river Nyagak and the environment, climate improvement, as source of food and many others.
- b) When we plant trees we achieve the following benefits: trees help in the modification of climate that helps us to grow food throughout the year minus prolonged dry spells.
- c) From the first growing trees we get timber that we can sell to get money and they allow under growth and because of this you can plant crops and get money and they do sprout, more trees grow and hence achieving environment protection benefits and get more water which will feed river Nyagak.
- d) The company which is coming to generate power from this river will pay tax which will be used in Zombo district and improve on the environmental issues for sustainable development.
- e) We discourage pines because they destroy the environment and do not allow under growth, eucalyptus trees are not allowed in wetlands because they take a lot of water but plant them upland because they will give us timber and get income, protect us and our property from strong winds among others.

- f) Every household should plant trees for income, food, environment protection and beauty.

## **2.3 Way forward**

### **2.3.1 Way forward for the meeting that was carried out in Okwalo village, Patek Parish, Jang-okoro Sub County**

- i. They are laws and regulations that have been put in place to protect the natural resources. National Environment act section 34-37 talks about the management of lakes, rivers and wetlands. The laws should be enforced by all authorities. Enforce the laws at all levels.
- ii. Wetlands degraders should be prosecuted and the District should take lead.
- iii. The committees responsible for environment management should be put in place and made operational. District Environment Officers and Sub county officials are responsible for training the Committees.
- iv. The District Environment Officers should give notice to people cultivating in the wetlands so as to stop them and make them leave the wetlands function naturally.
- v. District and Sub county authorities should continue sensitizing the public about environment management issues.
- vi. Report to the Sub County and District authorities those people who degrade the environment.
- vii. The District Authorities to distribute tree seedlings to the community members in the most affected areas for planting.



**Across section of participants for a meeting on protection of River Nyagak at Okwalo village, Patek Parish, Jang-okoro Sub County**

### **2.3.2 Way forward by the communities in Nyagak village, Thanga Parish, Abanga Sub County**

- i. All farmers should obey environment management laws in order to protect the environment from environmental degradation.
- ii. We have to promote conservation activities in wetlands including tree planting of good species and avoid planting eucalyptus trees that takes a lot of water.
- iii. Farmers to plant grass in the protected zones of the fragile areas to avoid siltation of river Nyagak.
- iv. Report destructive activities in the wetland/ fragile ecosystems.
- v. We are ready to restore the environment but we need support from the district through providing us with seedlings of trees.
- vi. In addition to district support we can rise our own trees seedling and restore the environment.
- vii. Avoid unnecessary burning of bush during dry season; report and prosecute the offenders.
- viii. Charcoal burning should be regulated and all LCs should go back and elect committees in charge of environment management.
- ix. LCs should play a key role to see that wetlands are not degraded since management of resources starts from village level.



**Cross section of participants at Nyagak village, Thanga Parish, Abanga Sub County**

### **2.3.3 Way forward public education and awareness for the protection of river Nyagak at Songeya village, Leda Parish, Athuma Sub County, Okoro County, Zombo District**

- i. Observe the protection zones of rivers. For River Nyagak leave 30 meters on both sides of the river as protection zone.
- ii. Promote restoration of Catchments including tree planting and good species should be the ones planted.
- iii. Report any destructive activities to the authorities (community policing).
- iv. To improve on soil fertility, we need to carry out crop rotation.
- v. Practice organic farming where you use all wastes generated at home including from the garden to act as manure.
- vi. Carry out family planning to reduce on population growth and its associated impacts on the environment.



### **Meeting on public education and awareness at Songeya village, Leda Parish, Athuma Sub County, Okoro County, Zombo District**

### **2.3.4 Way forward from the meeting held at Mavura Primary School, Mavura Village, Abanga Parish, Athuma Sub County**

- i. Avoid cutting down of the trees anyhow and replace trees cut.
- ii. Practice good methods including contour farming of farming on the hilly or mountainous area.
- v. Form and operationalize LECs at Sub County, Parish and at lower levels.

- vi. River Nyagak is a transboundary resource and it connects to Uganda through the republic of Congo there is a need for the government of Uganda to work hand in hand with the Government of Congo since there is a lot of degradation being carried out in Congo near this river Nyagak.
- v. Carry out continuous environmental awareness and education on environment management
- vi. Enact laws (ordinances and by laws) on environment and natural resources management
- vii. Give report/ feedback to the leaders and the concerned persons
- viii. Enforcement of environmental laws

### **3.0 Radio talk show**



#### **Radio Paidha FM Station in Paidha Town Council, Zombo District**

As part of Environmental awareness in Zombo District, a radio talk show was held on Paidha FM 87.8 on 24<sup>th</sup> November 2017 from 8:00 pm – 9:30pm. The call in talk show was for a duration of one and half hours.

The radio hosted 3 Officials from NEMA, DNRO Nebbi District and 2 Environment Officers from Zombo District. The call in talk show was moderated by DJ. Unencan Sadiki AKA Winter man.

Paidha FM station is one of the first stations in West Nile Sub Region and it has listenership in the entire West Nile Sub region and covers parts of Congo, Acholi and Bunyoro Sub Regions. The talk show was held in English and translated into Alur the local language.

The main issues discussed were on Environment management in Uganda and roles of different stakeholders, degradation of River Nyagak Catchments and impacts on electricity production, wetlands and river banks degradation, the protection zones, deforestation, climate change, why Zombo District is no longer food secure, etc. Questions and issues were raised by members of the public and responded to.

## Annex Attendance list for Public education and awareness

### ANNEX 1: Attendance list for District level meeting held in the Executive Board Room on 23<sup>rd</sup> November 2017

| NO. | NAME                   | Sex | INSTITUTION | DESIGNATION                  | CONTACT    |
|-----|------------------------|-----|-------------|------------------------------|------------|
| 1.  | Fualing Doreen         | F   | Nebbi DLG   | DNRO                         | 0782878098 |
| 2.  | Jakech Charles         | M   | Zombo DLG   | Rep. CAO                     | 0772609595 |
| 3.  | Rama Charles           | M   | Zombo DLG   | DFO-Fish                     | 0772624634 |
| 4.  | Anguzu Eric            | M   | ZDLG        | Cartographer/Surveyor        | 0392882221 |
| 5.  | Ongom Sam              | M   | ZDLG        | Internal Auditor             | 0772308869 |
| 6.  | Okumu Milton           | M   | ZDLG        | Ass.Forestry Officer         | 0772163706 |
| 7.  | Dr. Daniel Babikwa     | M   | NEMA        | D/DSCPE                      | 0772667066 |
| 8.  | Edward Odipio          | M   | NEMA        | DSM                          | 0772511357 |
| 9.  | Uwor Martin            | M   | ZDLG        | Environment Officer          | 0773882000 |
| 10. | Dramuke Patrick        | M   | ZDLG        | DVCO-DHO's office            | 0774502123 |
| 11. | Bedijo Geoffrey        | M   | ZDLG        | Senior Environment Officer   | 0772936324 |
| 12. | Pithua Richard Frankre | M   | ZDLG        | Ag District Physical Planner | 0772514201 |
| 13. | Persis Basemeria       | F   | NEMA        | SEEO                         | 0772851818 |
| 14. | Giramia Joan           | F   | ZDLG        | District Vice Chair          | 0782834324 |
| 15. | Jawotho Peter          | M   | ZDLG        | Ass. District Water Officer  | 0772194851 |

**Total number of participants = 15. Number of Females = 3 and of Males 12**

### Annex 2: List of participants in the meeting that was carried out at Okwalo village, Patek Parish, Jang-okoro Sub County

| No. | NAME              | SEX | PARISH/VILLAGE | DESIGNATION  | CONTACT    |
|-----|-------------------|-----|----------------|--------------|------------|
| 1.  | Awanga Mathias    | M   | Bikimiti       | C/man LC11   | 0773867784 |
| 2.  | Cwinyaa Calumente | M   | Afoyupayundara | Elder        |            |
| 3.  | Oringi Juliano    | M   | Afoyupayundara | LC 11        | 0786359605 |
| 4.  | Opidi Laurewce    | M   | Afoyopayundara | S/C court    | 0778139397 |
| 5.  | Thokerunga        | M   | Samba          | LC           |            |
| 6.  | Iwutung           | M   | Akunu          | Farmer       |            |
| 7.  | Ongona Maccarious | M   | Patek parish   | Gen Sec LC11 | 0787150534 |
| 8.  | Orwinya Yoani     | M   | Akwero-Ali     | farmer       |            |
| 9.  | Ozelle Terensio   | M   | Uduk           | Catechist    | 0775805143 |
| 10. | Omina safi        | M   | Afuyupayundara | Malim        | 0759541055 |
| 11. | Okirwoth Jinaro   | M   | Okwalo         |              | 0775086213 |
| 12. | Onyuthi Muhamad   | M   | Afuyupandara   | farmer       |            |
| 13. | Oyukutu Alias     | F   | Akunu          | C/man        | 0774906123 |
| 14. | Okeca Alex Olony  | M   | Patek          | Parish chief | 0787428141 |
| 15. | Olama Terensio    | M   | Ambaki         | C/man LC1    | 0773612186 |

|     |                     |   |                 |            |            |
|-----|---------------------|---|-----------------|------------|------------|
| 16. | Wanican Davi        | M | Afoyopayandara  | farmer     |            |
| 17. | Olwora Leone        | M | Oduk            | Farmer     |            |
| 18. | Ocai Saidi          | M | Akuni           | farmer     | 0789605871 |
| 19. | Omianitho           | M | Afoyupayundara  | farmer     |            |
| 20. | Athocon Alex        | M | Ambaki          | farmer     |            |
| 21. | Wanican Alfred      | M | Okwalo          | farmer     | 0786900888 |
| 22. | Nyitho Gilbert Odul | M | Vira            | farmer     | 0782015637 |
| 23. | Oyeniboth Baptist   | M | Okwalo          | LC Defense | 0781279435 |
| 24. | Onencan Francis     | M | Okwalo          | Consultant | 0785329832 |
| 25. | Orwothowun Majid    | M | Akunu village   | farmer     | 0781436770 |
| 26. | Oting Jastine       | F | Akunu           | farmer     | 0785858668 |
| 27. | Jerose Abedith      | M | Okwallo         | farmer     |            |
| 28. | John Onencan        | M | Bilimiti        | farmer     |            |
| 29. | Emanuel Ozele       | M | Vira            | farmer     |            |
| 30. | Irachan Diana       | F | Okwallo         | teacher    | 0775321213 |
| 31. | Jerose              | F | Afoyopa         | farmer     |            |
| 32. | Ocircan Giblert     | M | Okwallo         | farmer     | 0776908099 |
| 33. | Sadam Juma          | M | Okwallo         | Boda boda  |            |
| 34. | Patrick Ocaki       | M | Gumia           | farmer     | 0777373798 |
| 35. | Nata Olieria        | F | Okwallo         | farmer     |            |
| 36. | James Alobo         | M | Kawa            | farmer     |            |
| 37. | Christin Wiajik     | F | Okwallo         | farmer     |            |
| 38. | Bidong Marry        | F | Afoyopayundara  | farmer     |            |
| 39. | Awekonimungu Benard | M | Okwallo         | farmer     |            |
| 40. | Okantho Aldo        | M | Afoyopayundara  | farmer     |            |
| 41. | Ayiorwoth           | F | Conslate        | farmer     |            |
| 42. | Oryema Joseph       | M | Afoyopayundara  | farmer     | 0754076259 |
| 43. | Ovon Gadati         | M | Okwallo         | farmer     | 0782564712 |
| 44. | Kumakech David      | M | Njuda           | farmer     |            |
| 45. | Okwaimungu Denis    | M | Ambaki          | farmer     |            |
| 46. | Santina Ozinga      | M | Okwallo         | farmer     |            |
| 47. | Owek-Nyinga Kizito  | M | Afoyupayundara  | farmer     |            |
| 48. | Chombe              | M | Okwallo         | farmer     |            |
| 49. | Giramia Irma        | F | Afoyopayundara  | farmer     |            |
| 50. | Mugisa Charles      | M | Okwallo         | farmer     | 0782245043 |
| 51. | Santa Chauda        | F | Afoyo payundara | farmer     |            |
| 52. | Owaca Leotisa       | F | Afoyopayundara  | farmer     |            |
| 53. | Thosuba J           | M | Afoyopayundara  | farmer     |            |
| 54. | Tekokwo             | M |                 |            |            |
| 55. | Pimerpamungu Alice  | F | Okwallo         | farmer     | 0786543238 |
| 56. | Majidi Juma         | M | Okwallo         | farmer     | 0758948765 |
| 57. | Ocamo Manwel        | M | Okwallo         | farmer     | 0786265430 |
| 58. | Ayerango Jackline   | F | Okwallo         | farmer     |            |
| 59. | Kumakech Phillip    | M | Okwallo         | farmer     |            |
| 60. | Kenber Patrick      | M | afoyopayundara  | farmer     | 0775322148 |
| 61. | Kasamba Ronald      | M | Afoyopayundara  | farmer     |            |

|     |                      |   |                |               |            |
|-----|----------------------|---|----------------|---------------|------------|
| 62. | Ochir Chan           | M | Afoyopayundara | farmer        |            |
| 63. | Fualing Doreen       | F | Nebbi DLG      | DNRO          | 0782878098 |
| 64. | Kasim Juma           | M |                |               |            |
| 65. | Giramia              | F |                |               |            |
| 66. | Maich Akanuk         | M |                |               |            |
| 67. | Orwortho Bensons     | M | Patek/Oduk     | LC1 Executive | 0777907635 |
| 68. | Sebbi Aliasi         | F | Patek Akunu    | farmer        | 0775902409 |
| 69. | Omirambe Joshua      | M | Patek          | farmer        |            |
| 70. | Olony                | M | Afoyopayundara | farmer        |            |
| 71. | Nenungo Osman        | M | Afoyopayundara | student       |            |
| 72. | Omirambe Charles     | M | Okwallo        | farmer        |            |
| 73. | Abiwekango Primo     | M | Afoyopandara   | farmer        |            |
| 74. | Ovon Stephen         | M | Afaoyundara    | farmer        |            |
| 75. | Ocamgiu Jimmy        | M | Afoyopandara   | farmer        |            |
| 76. | Jeraldo Saiatina     | F | Okwallo        | farmer        |            |
| 77. | Jakernga Juma        | M | Okwallo        | C/man         |            |
| 78. | Alifonsio Binen      | M | Guma           | farmer        |            |
| 79. | Ongiera Glay         | F | Afoyopayundara | farmer        |            |
| 80. | Ocamyn Baptist       | M | Njuda          | C/man LC1     | 0777689899 |
| 81. | John Oyuzu           | M | Samba          | farmer        |            |
| 82. | Onencan Hillary      | M | Afoyopayundara | farmer        | 0786489774 |
| 83. | Oting cwinyu Patrick | M | Samba          | farmer        |            |
| 84. | Oyeny Both Jackson   | M | Vira           | farmer        |            |
| 85. | Donwa Denis          | M | Okwallo        | farmer        | 078883944  |
| 86. | Ofoyo Piraicn        | F | Amozi          | farmer        |            |

**Total number of participants = 86. Number of Females = 19 and of Males 67**

**Annex 3: List of participants in the public education and awareness meeting for the protection of river Nyagak at Songeya village, Leda Parish, Athuma Sub County, Okoro County, Zombo District**

| NO. | NAME                      | SEX | PARISH/VILLAGE    | DESIGNATION                           | CONTACT    |
|-----|---------------------------|-----|-------------------|---------------------------------------|------------|
| 1.  | Odungu Albert             | M   | Nyapea Sub-county | SAS                                   | 0772072946 |
| 2.  | Canpacho<br>Michael Onega | M   | Nyapea Sub-county | Agriculture<br>Officer                | 0772184375 |
| 3.  | Giramia<br>Christine      | F   | Nyapea Sub-county | Sec. Production<br>and<br>Environment | 0788233029 |
| 4.  | Ayabutho Joyce<br>Angala  | F   | Nyapea Sub-county | District<br>Councilor                 | 0785566564 |
| 5.  | Mungujakisa<br>Kizito     | M   | Nyapea Sub-county | Speaker ZDLG                          | 0772198898 |

|     |                         |   |                   |                             |            |
|-----|-------------------------|---|-------------------|-----------------------------|------------|
| 6.  | Hon. Okettwengu Patrick | M | Abanga Sub-county | District councillor         | 0787061687 |
| 7.  | Mariemungu Specioza     | F | Nyapea Sub-county | Parish chief - Paley Parish | 0773366107 |
| 8.  | Ongom V. Mostafa        | M | Nyapea Sub-county | Parish chief - Oyeyo        | 0777907217 |
| 9.  | Bithum Lawrence         | M | Nyapea Sub-county | Sec Social Service          | 0787158881 |
| 10. | Jakisa Tonny Dian       | M | Nyapea Sub-county | Councillor                  | 0779678755 |
| 11. | Uzungu John             | M | Nyapea Sub-county | Councillor                  | 0773727021 |
| 12. | Ocungi Martin           | M | Culoruluk         | Leader                      | 0787805451 |
| 13. | Laka Marcelino          | M | Jupakonja         | Jadipo Culamilk             | 0750337894 |
| 14. | Pirwoth Charles P'odar  | M | Paley Parish      | Cultural leader Ker Alur    | 0787236230 |
| 15. | Kumakech Inocent        | M | Nyagak            | farmer                      |            |
| 16. | Okello Charles          | M | Nyagak            | farmer                      | 0778035183 |
| 17. | Isaak Anyii             | M | Nyagak            | farmer                      |            |
| 18. | Akonja John             | M | Jupakonja         | farmer                      | 0787109491 |
| 19. | Oboko Luwiji            | M | Nyagak            | farmer                      | 0771409611 |
| 20. | Manwela Anyig           | F | Nyagak            | farmer                      |            |
| 21. | Nikilina Akumu          | F | Nyagak            | farmer                      |            |
| 22. | Paska Monang            | F | Nyagak            | farmer                      |            |
| 23. | John Kerodong           | M | Abeju             | Athuma                      |            |
| 24. | Okello Leonar           | M | Abeju Athuma      | Chairman L.C.1              |            |
| 25. | Okethwengo Poius        | M | Oyeyo Acoro       | Secretary Production        | 0773991662 |
| 26. | Oyirwoth Patrick        | M | Thanga            |                             | 0772765778 |
| 27. | Omyer Brian             | M | Thanga            |                             | 0793195136 |
| 28. | Bidongo Bennate         | M | Thanga            | farmer                      | 0785514750 |
| 29. | Odaga Sam               | M | Guwa              | c/man L.C.1                 | 0783777917 |
| 30. | Okecha Gerald           | M | Thanga            | Farmer                      | 0777226846 |
| 31. | Openjth Albert          | M | Mathawele         | C/man L.C.1                 | 0775565160 |
| 32. | Kisarach Johnson        | M | Jupakonja         | FUR                         |            |
| 33. | Oyer Godfery            | M | Guma              | C/man L.C.D                 | 077916502  |
| 34. | Onegarac Safi           | M | Thanga/Nyagak     | Farmers                     | 0775554401 |
| 35. | Ouon Emmanuel           | M | Oyeyo Agore       | Chairman Lc 11              | 0772864844 |
| 36. | Onoba Thomas            | M | Nyagak Village    | Sec LC 1                    | 0789597207 |

|     |                          |   |                 |                            |            |
|-----|--------------------------|---|-----------------|----------------------------|------------|
| 37. | Olur Andrew              | M | nyagak          | Fur                        |            |
| 38. | Ogen-Mungu Alfred        | M | Mathewel        |                            | 0775075896 |
| 39. | Ngukasho Charles         | M | Nyia            | C/man L.C1 Ngia            | 0781082971 |
| 40. | Wanok Gilbert            | M | Jupakonja       | farmer                     | 0773297287 |
| 41. | Okwonga Felix            | M | Buna Village    | C/man Nyagak farmers group | 0777907688 |
| 42. | Kertho Chrisanto         | M | Jupakonja       | Vise C/man farmers group   |            |
| 43. | Wakunga Daniel           | M | Nyagak Village  | farmer                     | 0773271505 |
| 44. | Okethiwengu Vincent      | M | Jupakonja       | Elder                      | 0787169499 |
| 45. | Anewa Gabriel            | M | Abefu Jupaonja  | C/man L.C.1                | 0787143538 |
| 46. | Abedican Geoffrey Okenga | M | Abeju/Jupakonja | teacher                    | 0774275303 |
| 47. | Owechi Aseima            | M | Abeju/Jupakonja | Santation                  |            |
| 48. | Ozelle Mawano            | M | Mathawelle      | farmer                     | 0779401004 |
| 49. | Alarahgo Rita            | F | Guma            | farmer                     |            |
| 50. | Athunet Mandhawun        | M | Abefu Ngia      | peasant                    |            |
| 51. | Onjoma Francis           | M | Oyeyo Guna      | peasant                    | 0771670638 |
| 52. | Oramba Ronald            | M | Oyeyo Guna      | farmer                     | 0782072602 |
| 53. | Yanga Serefina           | F | Nyagak          |                            |            |
| 54. | Katho Isabella           | F | Nyagak          |                            |            |
| 55. | Dokotho Leotista         | F | Nyagak          | Nyagak                     |            |
| 56. | Acayo Grace              | F | Nyagak          |                            |            |
| 57. | Ongyera Grace            | F | Nyagak          | Peasant                    |            |
| 58. | Mary Pican               | F | Nyagak          |                            |            |
| 59. | Pibacel Beatrice         | F | Nyagak          | Peasant                    |            |
| 60. | Munguryek Agnes          | F | Nyagak          | Peasant                    |            |
| 61. | Afoyorwoth Dorwe         | F | Nyagak          | Peasant                    |            |
| 62. | Kello Gerosé             | M | Nyagak          | Peasant                    |            |
| 63. | Nyingaling .E.           | F | Oyeyo           | Farmer                     |            |
| 64. | Opakrwoth Innocent       | M | Thanga          | Farmer                     |            |
| 65. | Jawiambe Patrick         | M | Thanga          | Farmer                     |            |

|     |                   |   |        |              |            |
|-----|-------------------|---|--------|--------------|------------|
| 67. | Otingwinyu Robert | M | Thanga | farmer       |            |
| 68. | Obegiu Innocent   | M | Thanga | farmer       |            |
| 69. | Agises Owachira   | M | Nyagak |              |            |
| 70. | Oweka Haryet      | F | Nyagak |              |            |
| 71. | Urocan            | F | Nyagak |              |            |
| 72. | Rasuka            | F | Nyagak |              |            |
| 73. | Onega Jirald      | M | Nyagak | farmer       |            |
| 74. | Bisedi Anyi       | M | Nyagak | Farmer       |            |
| 75. | Ocircan Dorine    | F | Nyagak | farmer       | 0751122256 |
| 76. | Biwinjire Agnes   | F | Nyagak |              |            |
| 77. | Athoromu Kevin    | F | Nyagak |              |            |
| 78. | Piraciel Coline   | M | Nyagak |              |            |
| 79. | Grace Adubango    | F | Nyagak |              |            |
| 80. | Akumu Mannuela    | F | Nyagak |              |            |
| 81. | Abeka Geoffrey    | M | Abanga | farmer       |            |
| 82. | Fualal Jan        | M | Abanga | farmer       |            |
| 83. | Irachan Jovian    | F | Abanga | farmer       |            |
| 84. | Acayerach John    | M | Abanga | farmer       |            |
| 85. | Fualiera          | F | Jenaty | Farmer       |            |
| 86. | Cika Awuna        | F | Abanga | farmer       |            |
| 87. | Ryekutho          | M | Nyagak |              |            |
| 88. | Onim Stero        | F | Nyagak |              | 0789011652 |
| 89. | Mugisha Edimon    | M | Nyapea | Business man | 0774691612 |

**Total number of participants = 89. Number of Females = 29 and of Males 6**

**Annex 4: List of participants at public education and awareness for the protection of river Nyagak at Songeya village, Leda Parish, Athuma Sub County, Okoro County, Zombo District**

| NO | NAME              | SEX | PARISH/VILLAGE | DESIGNATION | CONTACT |
|----|-------------------|-----|----------------|-------------|---------|
| 1. | Ngamita Hellen    | F   | Leda/Songed    | farmer      |         |
| 2. | Onguenya Sunthina | F   | Leda/Songed    | Farmer      |         |
| 3. | Ongiera Agness    | F   | Leda/Songed    | farmer      |         |

|     |                        |   |             |         |                           |
|-----|------------------------|---|-------------|---------|---------------------------|
| 4.  | Ayomirwot<br>h Bridget | F | Leda/Songed | Farmer  |                           |
| 5.  | Abineno<br>Pasca       | F | Leda/Songed | Farmer  |                           |
| 6.  | Akumu<br>Beatrace      | F | Leda/Songed | Farmer  |                           |
| 7.  | Kumakech<br>Innocent   | M | Akoth       | Peasant |                           |
| 8.  | Angula<br>Pastore      | M | Songa       | Farmer  |                           |
| 9.  | Iracan<br>Christine    | F | Songed      | farmer  |                           |
| 10. | Manano<br>Sunday       | M | Songed      | farmer  |                           |
| 11. | Oroncan<br>James       | M | Songed      | farmer  |                           |
| 12. | Micheal<br>Okethwoku   | M | Songed      | farmer  |                           |
| 13. | Afoyorwoth<br>Liberty  | F | Leda/Songed | farmer  |                           |
| 14. | Mungudit<br>Dezy       | F | Leda/Songed | farmer  |                           |
| 15. | Kwiocwiny<br>Jackline  | F | Leda/Songed | peasant |                           |
| 16. | Okwaimung<br>u Jenifer | F | Leda/Songed | peasant |                           |
| 17. | Jacanmakw<br>o Oto     | M | Leda/Akoth  | peasant |                           |
| 18. | Cwothemb<br>u Vincent  | M | Leda/Akoth  | peasant |                           |
| 19. | Onunga<br>Justine      | F | Anyongu V   | LC1     | 0775946832                |
| 20. | Oroga<br>Wilson        | M | Songed      | farmer  |                           |
| 21. | Onegiu<br>Isaac        | M | Songed      | farmer  | 0787158391/07707102<br>43 |
| 22. | Emanuel<br>Ozelle      | M | Ocungulir   | farmer  | 0786359273                |
| 23. | Ofayunu<br>Emmau       | M | Ocungulir   | farmer  |                           |
| 24. | Okecha<br>Lerhond      | M | Okoth       | farmer  |                           |

|     |                         |   |              |                          |            |
|-----|-------------------------|---|--------------|--------------------------|------------|
| 25. | Opyewiagan<br>Densio    | M | Songed       | Environment<br>committee | 07855772   |
| 26. | Ozew<br>Aselmo          | M | Songed       | Production<br>committee  |            |
| 27. | Awanga<br>Mathias       | M | Biwmiti      | C/man LC11               | 0773867784 |
| 28. | Nen<br>Kasiano          | M | Songed       | farmer                   |            |
| 29. | Ogen<br>Emilio          | M | Songed       | Jago                     |            |
| 30. | Wanok<br>Abeka          | M | Ojigu        | Kal                      |            |
| 31. | Awanga<br>Wilfred       | M | Leda         | farmer                   | 0781634023 |
| 32. | Osoba<br>Masimo         | M | Leda         | farmer                   |            |
| 33. | Oyenykeu<br>G Obima     | M | Akoth        | C/man LC1                | 0785653631 |
| 34. | Okomu<br>Ramadhan       | M | Anyungu Leda | C/man Land<br>Committee  | 0777414946 |
| 35. | Ozelle Paul             | M | Akoth        | farmer                   |            |
| 36. | Thokecma<br>Gilbert     | M | Songed       | C/man LC1                |            |
| 37. | Ocircan<br>David        | M | Leda/Songed  | Genral Sec<br>LC1        |            |
| 38. | Oduburu<br>Martin       | M | Leda/Songed  | peasant                  |            |
| 39. | Pithua<br>Joseph        | M | Leda/Akoth   | Peasant                  |            |
| 40. | Cwinyunge<br>Ronald     | M | Songed       | peasant                  |            |
| 41. | Richard<br>Okethwengu   | M | Songed       | farmer                   |            |
| 42. | Okwai-<br>Mungu<br>John | M | Akoth        | Peasant<br>farmer        | 0775337713 |
| 43. | Ocircan<br>Alfred       | M | Ocungulir    |                          |            |
| 44. | Jawiambe<br>Saviour     | F | Songed       |                          | 0789672439 |
| 45. | Birwinyu<br>Jenety      | F | Songed       |                          |            |

|     |                          |   |              |                    |            |
|-----|--------------------------|---|--------------|--------------------|------------|
| 46. | Omirambe<br>Patrick      | M | Songed       |                    |            |
| 47. | Olok-<br>Cwinyu<br>Moris | M | Songea       |                    | 0770604226 |
| 48. | Alican<br>Alfred         | M | Songea       |                    |            |
| 49. | Apegitho<br>Patrick      | M | Songea       | peasant            |            |
| 50. | Kumakech<br>Colline      | M | Songea       | peasant            |            |
| 51. | Obengiu<br>David         | M | Songea       | Peasant/farme<br>r |            |
| 52. | Cekecan<br>James         | M | Akoth        | Peasant            |            |
| 53. | Bidong<br>Gilbert        | M | Akoth        | peasant            |            |
| 54. | Kumakech<br>Amos         | M | Songea       | peasant            |            |
| 55. | Thoduba<br>Hellen        | F | Songea/Leda  | farmer             |            |
| 56. | Acen<br>Scovia           | F | Leda/Songea  | peasant            |            |
| 57. | Opio Milton              | M | Leda/Anyongo | farmer             |            |
| 58. | Akelo<br>Maureen         | F | Leda/Anyongo | farmer             |            |
| 59. | Thumiswot<br>h Scovia    | F | Leda/Songea  | farmer             |            |
| 60. | Owacgiu<br>Dorin         | F | Leda/Songea  | peasant            |            |
| 61. | Jacan<br>Lawrence        | M | Anyongo      | farmer             | 0786539928 |
| 62. | Masendi<br>Francis       | M | Songea       | farmer             | 0771071525 |
| 63. | Oyirwoth<br>Stephen      | M | Songea       | farmer             |            |
| 64. | Opoki Paul               | M | Akoth        | farmer             | 0789427826 |
| 65. | Obedgiu<br>Innocent      | M | Akoth        | farmer             | 0778786178 |
| 66. | Akenda<br>Alferd         | M | Songea       | farmer             | 07875359   |
| 67. | Ngabiromb<br>o Jesdero   | M | Songea       | farmer             |            |

|     |                        |   |                   |                      |            |
|-----|------------------------|---|-------------------|----------------------|------------|
| 68. | Pimundu Francis        | M | Leda/Songea       | farmer               |            |
| 69. | Anewa Fuha             | F | Leda/Akoth        | farmer               |            |
| 70. | Fuacan Suntor          | F | Leda/Songea       | farmer               |            |
| 71. | Fualyera Margret       | F | Leda/Songea       | farmer               |            |
| 72. | Odowho Albem           | M | Nyapac AC LG      | SAS                  | 0782072946 |
| 73. | Canpacho Micheal Onega | M | Nyapea Sub County | Agriculture officer  | 0772184375 |
| 74. | Giramia Christine      | F | Nyapea Sub County | Secretary production | 0788233029 |
| 75. | Ayabutno Angela        | F | Nyapea Sub County | District councilor   | 0785566564 |

**Total number of participants = 75. Number of Females = 24 and of Males 51**

**ANNEX 5: List of participants at Mavura Primary School, Mavura Village, Abanga Parish, Athuma Sub County**

| NO  | NAME                   | SEX | PARISH/VILLAGE | DESIGNATION           | CONTACT    |
|-----|------------------------|-----|----------------|-----------------------|------------|
| 1.  | Ukadha Muhammad        | M   | Athuma s/c LG  | S/c chairperson       | 0772456520 |
| 2.  | Kermundu Orilain       | M   | Athuma S/c     | For SAS               | 0789371848 |
| 3.  | Nyodober Christopher   | M   | Athuma         | CDO                   | 0772360089 |
| 4.  | Kasamba Tito Olony     | M   | Athuma         | Agriculture Officer   | 0783445752 |
| 5.  | Hon. Okura Alfred      | M   | Athuma         | Production Secretary  | 0773867700 |
| 6.  | Hon. Oyoma Geoffrey    | M   | Athuma         | Finance C/man         | 0775548626 |
| 7.  | Acamfua A. Comfort     | F   | Athuma         | Veterinary Officer    | 0785572825 |
| 8.  | Otier Nimungu Innocent | M   | Gombiri        | Farmer                | 0786575967 |
| 9.  | Berocan Cosmas         | M   | Oduk           | Farmer                | 0786185123 |
| 10. | Othembi Saverio        | M   | Atura          | LC1                   |            |
| 11. | Odar Justine           | M   | Arikpa central | LC1                   | 0779046829 |
| 12. | Ajaruva Gilbert        | M   | Atura          | Environment Committee | 0786426894 |

|     |                     |   |                 |                       |            |
|-----|---------------------|---|-----------------|-----------------------|------------|
| 13. | Eichanduwun Hillary | M | Zulumi          | Farmer                | 0775311915 |
| 14. | Onegiu Jinaro       | M | Abaji           | Farmer                | 0781066978 |
| 15. | Kasamba Aloysius    | M | Ariwa           | Parish chief          | 0789846659 |
| 16. | Owekngom Sabato     | M | Abaji           | Farmer                | 0782108052 |
| 17. | Apio Mary           | F | Zulume          | Environment Committee | 0771288202 |
| 18. | Omirambe Milton     | M | Abaji/Aluka     | Farmer                | 0773246744 |
| 19. | Ociba John          | M | Athuma          | LC1                   | 0784441191 |
| 20. | Oyirwoth Norbert    | M | Zulume          | Religious leader      | 0786015654 |
| 21. | Mawa Saidi M        | M | Oduk            | Farmer                | 0752662603 |
| 22. | Owinja Silvano      | M | Gombiri         | Environment Committee | 0789526447 |
| 23. | Kasamba Gilbert     | M | Abaji/Oduk      | Environment Committee | 0774992918 |
| 24. | Okethwengu Julian   | M | Olyeko/Ogonju   | C/man LC1             | 0787185383 |
| 25. | Biloyoth Godgred    | M | Olyeko/Rabu     | C/man LC1             |            |
| 26. | Okecha Francis      | M | Zulume          | C/man LC1             | 0773991601 |
| 27. | Odaga Denis         | M | Abaji           | Head teacher          | 0774502553 |
| 28. | Ongiera Mary        | F | Aringa          | LC1                   | 0773528806 |
| 29. | Alitho Alfred       | M | Zulume          | Farmer                | 0778208404 |
| 30. | Othuri Terensio     | M | Abaji           | Farmer                | 0786356612 |
| 31. | Berlwu Selsa        | F | Zulume          | LC1                   | 0785042506 |
| 32. | Fambe Agnes         | F | Zulume          | farmer                |            |
| 33. | Kasamba Charles     | M | Olyeko-Omio     | Environment Committee |            |
| 34. | Ajarova Harriet     | F | Aringa          | Environment committee | 0788593916 |
| 35. | Angala Benva        | M | Oduk            | LC1                   |            |
| 36. | Ocaki Avur          | M | Arikpa Central  | Elder                 | 0788971141 |
| 37. | Aweku Alfred        | M | Mawa            | farmer                |            |
| 38. | Okethi Remiji       | M | Aluka           | farmer                |            |
| 39. | Binyolunga Justinu  | M | Arikpa Central  | Catechist             | 0775900349 |
| 40. | Ringtho Charles     | M | Zulume Pakia    | P.I.S.O               | 0785634896 |
| 41. | Kasamda Alex        | M | Zulume Gombiri  | farmer                | 0783740694 |
| 42. | Mangenga Moses      | M | Aluka V         | Environment committee |            |
| 43. | Jamono Francis      | M | Atyenda central | farmer                | 0777178081 |

|     |                         |   |                |                          |            |
|-----|-------------------------|---|----------------|--------------------------|------------|
| 44. | Openjuru Eddy           | M | Ogonju Village | farmer                   | 0774565600 |
| 45. | Neco Patrick<br>Nsunga  | M | Ayibu          | farmer                   | 0777907148 |
| 46. | Candia Okello<br>Robert | M | Ayibu          | LC1                      |            |
| 47. | Ryekutho Seneth         | M | Mawa           | farmer                   |            |
| 48. | Binwanga Albert         | M | Pakia Palwo    | Environment<br>Committee | 0755181390 |
| 49. | Can. Mua. O.<br>Michael | M | Arikpa central | LC1                      |            |
| 50. | Oryem Osi               | M | Cyethdyang     | Elder                    |            |

**Total number of participants = 50. Number of Females = 6 and of Males 44**