



CSR NEWSLETTER

NSP SHIRORO GETS NEW CSR UNIT

In a gallant move to ensure a decent living for the host communities of Shiroro Hydroelectric Power Station, the Management of NSP decided to create the CSR Unit on July 1, 2019. It was a welcome development for the Management of NSP to prioritize the CSR activities. To help achieve its goal, the unit is powered by the NSP Foundation which was created in November 2019.

The Unit is headed by the Assistant General Manager who reports to the Head (General Services), Abuja.

The unit is saddled with the responsibility to identify, plan, develop and implement CSR projects and programmes, liaise with the Community representa-

tives (DHCSC) in carrying out community needs assessment, provide and supervise all aspects of CSR related activities and to facilitate the coordination of all stakeholders involved in CSR management. The Community Representatives play significant role since it is at the local level that the impacts are mostly felt. Other core mandates of the unit are monitoring and evaluating activities of CSR, providing necessary education and sensitization activities that will reposition the communities to be better informed and providing the window for interface between NSP and the public.

The Management of NSPCL has sunk potable water boreholes in Lambu, Dnabo, Eddah, Awasha, Gbegbetuko, Zhiwi, Kadna, Guni and Galkogo Communities. Other

robust projects embarked upon by NSP are Education support projects: School building (Zumba Secondary school), scholarship scheme and JAMB, NECO and WAEC registration and Farm Tractor Scheme.

Another important project by NSP is the construction of the communication mast at CTM camp Shiroro to boost communication network in the immediate host communities. Others are the ongoing Cottage Industry Projects (Fish farm, Cassava, Yam and Gains processing Industries), Computer Based Test Centre Project and Rural Electrification Projects undergoing contract due diligence.

Continue to read these and many more of the CSR sustainable projects in our subsequent CSR Newsletters. The best and many more are yet to come!



SAMINU IBRAHIM OF ZUMBA COMMUNITY IN SHIRORO LGA, (FIRE VICTIM) AT FMC BIDA SPONSORED BY NSP SHIRORO DAM.



DURING THE TREATMENT AT FMC, BIDA.

Saminu Ibrahim was admitted at the Federal Medical Centre (FMC) on 19th June, 2018 and was discharged on 26th Nov. 2018 after a successful plastic surgery due to major fire burn. He is presently healed and healthy. The total



SAMINU IBRAHIM AFTER THE SURGERY AND OPERATION.

cost of treatment was five hundred thousand Naira (#500,000.00) fully paid.



EDITORIAL PAGE

NSP CSR News is periodic news communication magazine – compiled, edited and published by the Corporate Social Responsibility Department. The Newsletter showcases important developments within the Company's host communities; important events and celebrations within the NSP Family.

NSP CSR News is therefore intended to feature NSP Shiroro Hydroelectric Power Station CSR stories and reports of activities such as community development projects, Community sensitization, awareness workshops and seminars, official inaugurations, activities of the company

with its key stakeholders such as the host community officials and agencies of government, official luncheons & dinners, Awards and end-of-year ceremonies.

Essentially, NSP CSR News is expected to project the image of Company and to bridge the communication gap between the Company and its publics by providing information and education about the NSP, its historical background information, its corporate profile, its modus operandi, and vision and mission statements.

In this first edition, in accordance with the mandate of the Station to bring the CSR activities of the Company to limelight we shall

capture the various community sustainable development projects and programmes by NSP.

Our Cover story is on the “Emergence of the NSP CSR Unit”

The e-Newsletter can be requested through the email below:

foundation@northsouthpower.com

We are open to ideas/comments/suggestions on CSR projects. Please, feel free to contact us through the email:

foundation@northsouthpower.com

Enjoy a wonderful Newsletter.

-Sam Esumeh

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ABOUT NSP FOUNDATION

The NSP Foundation has been established to coordinate all the activities of the CSR unit for North South Power Company Limited to ensure a harmonious working relationship between NSP and its host community. Our focus will be hinged on ensuring that the community feels directly impacted by our activities and the general standard of living in the community is visibly improved.

VISION STATEMENT

To transform the communities in which NSP does business into progressive economic oriented and environmentally friendly communities and to encourage the education of its youths.

MISSION STATEMENT

To be a development-oriented organization creating value and harmonious relationships with its host communities; with priority focus on poverty alleviation, economic empowerment, environmental protection, education and an advocate for a good quality of life.

ACHIEVEMENTS

COMMUNICATIONS MAST INSTALLED IN SHIRORO

A needs assessment with the NSP, Shiroro Power Station's immediate host community identified effective communication as a vital need of the people. Effective communication has both social and economic impacts on the lives of the community, but most important is the security implication. Having identified these needs, NSP commissioned Chesdon

Engineering Limited to establish a 45-meter mast. Airtel Service Provider keyed into the project by installing the communication equipment on the mast.

Commissioned on October 11, 2019, the project now provides steady GSM services and 4G internet services within the Power Station complex and the host community.

A lot of encomiums and jubilations were the ovations that greeted the air in Shiroro and the entire host communities when services were established.

This gesture has put paid to the perennial youth restiveness in the community over poor communication services.



NSP COMMUNICATION MAST (SIDE VIEW)



NSP COMMUNICATION MAST (FRONT VIEW)

NSP FARM TRACTOR SUPPORT SCHEME

One of the key areas selected by NSP management as top priority is the agricultural support. This informed the provision of the farm tractor and accessories to assist the farmers all year round.



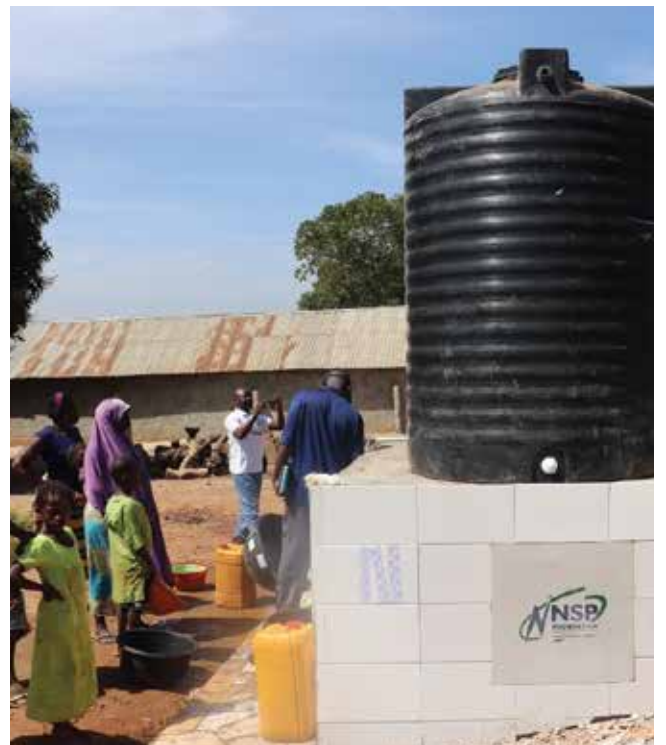
ACHIEVEMENTS



Photo Splash



“ Executive Gov. of Niger State in a Group Photograph with NSP Executive Board Members at Shiroro on 22 October, 2018. ”



PICTURES OF GALKOGO BOREHOLE PROJECT 1 AND PROJECT 2

ACHIEVEMENTS



ZUMBA SCHOOL BUILDING (Front View) as at 27/11/19



ZUMBA SCHOOL PROJECT TOILET FACILITY



ZUMBA SCHOOL BUILDING (Back View) as at 27/11/19



Cross section of Zumba of the Secondary School PTA EXCOS & NSP Representatives jointly certify the project completed and ready for commissioning on Monday, 09 Decemeber, 2019.



PAYMENT FOR THE KAWOTA FISH FARM LAND BY NSP-RT--GM PS Engr. S.W. Abubakar (NSPCL), Prof Y.D.Hakimi - (Host Community) .



EDAH BOREHOLE PROJECT



KANDNA BOREHOLE PROJECT



NSPCL & HOST COMMUNITY LEADERS PHYSICALLY SIGHTING THE NEW NSP COMMUNITY SUPPORT TRACTOR .

ACHIEVEMENTS

STUDENTS OF DAY SEC. SCH. GUNI AWARDED SCHOLARSHIPS

NSPCL Shiroro Hydroelectric Power Station as part of its corporate social responsibility (CSR) policy attaches high premium and a lot of importance to education and in order to improve the literacy level of the indigenes in the host communities has awarded scholarship to the following students who

are indigenes of Guni Community as a result of their successful performance in a Health Safety and Environment (HSE) Quiz Competition during the Waste Management Sensitization Campaign on July 20, 2019.

1. Zainab Ya'u (Female) – SS1
2. Abddulhadi Yusuf (Male) – JSS3

3. Wasila Salisu (Female) – JSS3
The scholarship was created to financially help the students to pursue their studies in Government Day Secondary School, Guni. for the 2019/20 academic year. The award covers tuition fees, books and other educational expenses.

NSP SUPPORT SUSTAINABLE COTTAGE INDUSTRIES.

As part of NSP CSR, the **Fish Production, Processing and Feed Production Industry is top priority among the list of cottage industries.**

The overall goal and objectives of the project is to build sustainable means of livelihood for the NSP Shiroro Hydroelectric Power Station host community, particularly WOMEN. This project is an effective livelihood intervention strategy targeted at strengthening the Fish Value chains, improved and enlarged Fish farming and increased income for unemployed men and women in the community.

The specific objective of the project is to create and maintain a viable and sustainable economic

platform (a business of fish Farming, fish processing, Packaging and fish feed production), where beneficiaries would be free from unemployment and begin to contribute to the economic development of their local communities, thus, increasing positive mutual understanding, peace and cordial relation between NSP and the host community.

A total Workforce of three hundred and seventy (370) hands will be gainfully employed.

Other sustainable industries coming up in 2020 are : Cassava Processing Industry at Gwadan-Gwari, Grains Processing Industry at Eddah-Zumba, Yam Processing Industry at Injita-Guni and Computer Based Test (CBT) Centre at Kuta.

SECURITY AND FLOOD SENSITIZATION WORKSHOP

In a bid to safeguard the power station installations, the lives and properties of staff as well as that of the host communities, NSP management has consistently embarked on security and flood sensitization for stakeholders, families, community reps and staff of the organisation.



NSP COMMUNITY WATER PROJECT

NSP has been able to record a landmark achievement in this area by providing portable water to many communities and the project is still ongoing.

NSP has provided eight (8) motorized boreholes to eight (8) communities, namely: Lambu, Dnabo, Eddah, Awasha, Gbegbetuko, Zhiwi, Kadna and Guni. Currently, sinking

of two (2) motorized boreholes at Galkogo Community is ongoing.

SUPPORT PROGRAMMES

NSP COMMENDED FOR DONATING ULTRA-MODERN BUILDING

...commissioner for education

North South Power Company Limited Commissioned its Ultra-Modern well-furnished one block of 3-Class-room Building including Principal's office, store, chairs, tables, shelf white-board, markers and copies of branded NSP Foundation 60 leaves notebooks, including toilet facilities with water supply.

The Chief Operating Officer of the Company, Engr. U. E. Chioke described the commissioning of the newly built Ultra-modern classroom block as an epoch-making event. He then called on the students and parents to rekindle their interest in education, saying that the project was conceived to improve the quality and easy access to education especially for children in the community and also appealed to them to ensure maintenance and sustenance of every NSP's projects in their community.

In the same vein, the CSR Consultant for NSPCL – Hon. Hassan Abdullahi disclosed that the company had executed other projects such as the provision of motorized boreholes in some other the host communities.

He then commended the Zumba Communities for ensuring peaceful coexistence.

Professor Danladi Hakimi (who doubles as the Representative of the Dam Host Communities /Minna Emirate Council and Head of NSUBEB, Minna), described the project as a rare feat in the history of education in the state, adding that it was a privilege to them to have an edifice of this nature to boost basic education which is for the development of any community.

The Permanent Secretary and Representative of the Commissioner, Ministry of Education, Niger State - Alhaji Ahmed Aliyu thanked the NSP Management for her doggedness and relentless efforts to make conducive learning a reality. He called on students to take advantage of the innovation and increase their knowledge, as he thanked the Community leaders for maintaining peace and tranquility.

The Principal of the School - Mr Jafaru Wambai, who was overwhelmed with joy narrated how the school was established in 2013 and resumed full session in 2014/15 academic year under a tree with just one pupil. He was full of thanks and appreciation to all who contributed to the

building of this edifice following a request to NSPCL by a former NYSC Member – Victor Adams, a native of Kwara State who is now a staff of NSPCL.

The commissioning of the new building project was done by a Secondary School (SS1) Student- Miss Sadiya Sanusi and witnessed by Engr. U. E. Chioke (COO NSP), Prof Y. D. Hakimi (Chairman DHCSC), Hon. Hassan Abdullahi (NSP CSR Consultant), Engr. Abubakar Ndaman (CSR Coordinator, NSP), Mal. Umaru Musa (Ward Head Zumba), Danladi Zarmai (PTA Chairman & Wazirin Zumba), Alh. Adamu (Gunduma Zumba) and Zumba Community Youth Leader – Moses Z. Barde.

Other dignitaries present at the occasion were the Director Schools & Educational Services (NSSEB) – Hajiya Zainab Abdullahi, Shiroro Local Government Education Secretary – Danjuma Yunusa Kuta, Chief Imam of Zumba - Ibrahim Abdulmumini and Chairman Christian Association of Nigeria (CAN) - Dr. Rev. Joseph Jibrin Enoch, to mention but a few.

SUPPORT PROGRAMMES



DIGNITARIES AT THE FORMAL COMMISSIONING OF THE ZUMBA SECONDARY SCHOOL ULTRA-MODERN CLASSROOM BUILDING COMPLETED BY NSPCL: (L-R): DANLADI ZARMAI (PTA CHAIRMAN), ALH. ADAMU (GUNDUMA ZUMBA), MAL. UMARU MUSA (WARD HEAD ZUMBA), ENGR. U. E. CHIOKE (COO NSPCL), PROF Y. D. HAKIMI (CHAIRMAN DHCS), HON. HASSAN ABDULLAHI (NSP CSR CONSULTANT) AND MISS SADIYA SANUSI (SS1 STUDENT, CENTRE) WHO CUT THE COMMISSIONING TAPE ON 9TH DECEMBER, 2019.



THE MD/CEO OF ADRIS INTEGRATED COMPANY LTD - ADEMOLA ABDULRAHEEM BRIEFS NSP MANAGEMENT & GUESTS AT THE COMMISSIONING EVENT



PROFESSOR DANLADI HAKIMI WHILE RECEIVING THE KEYS TO THE FACILITIES ON BEHALF OF HRH. EMIR OF MINNA, ZUMBA COMMUNITY AND THE SCHOOL MANAGEMENT, THANKED THE NSP MANAGEMENT FOR HER DOGGEDNESS AND RELENTLESS EFFORTS TO BETTER THE LIVES OF THE PEOPLE OF THE HOST COMMUNITY IN KEEPING WITH ITS CSR PROJECTS AND PROGRAMMES.

The Honourable Commissioner for Education, Niger State commended the Management of North South Power Company Limited for providing the Zumba Government Day Secondary School with an Ultra-Modern well-furnished one block of 3-Classroom Building including Principal's office, store, chairs, tables, shelf, white-board, markers and copies of branded NSP Foundation 60 leaves notebooks, including toilet facilities with water supply .The commendation came through the Permanent Secretary, Ministry of Education, Niger State - Alhaji Ahmed Aliyu during the commissioning of the edifice on Monday, December 9, 2019.

The Chief Operating Officer of the Company, Engr. U. E. Chioke described the commissioning of the newly built Ultra-modern classroom block as an epoch-making event and urged the people of Zumba Community to rekindle their interest in education and to ensure proper maintenance and sustenance of every NSP's projects in their community.

DESCRIPTION OF SHIRORO HYDROELECTRIC POWER STATION

Location

Shiroro Hydroelectric Power Station operated by the North South Power Company Limited (NSPCL) with effect from 1st November, 2013 is situated in Niger State 550 metres downstream of the confluence of Kaduna River with its tributary, the Dinya River about 60 kilometres north-east of Minna, the state capital. It was officially commissioned on 20th June 1990.

History

The decision to build a dam across River Kaduna in the area of Shiroro-a small farmers' village near Minna in Niger State that gives its name to the gorge where the project is located-has its origin in the survey carried out in the early 1950s and relevant to the exploration of the energy potential of the Nigerian river system.

The survey led to the implementation of what is now the 760-MW Kainji and the 540-MW Jebba Power Stations on the Niger and of the 600-MW Shiroro Power Station on the Kaduna one of the tributaries to the Niger.

The final design of the whole project was prepared by the then NEPA by Chas T. Main International Inc of Boston Mass., USA who was also responsible as Engineer, for the supervision of all the contracts required for its implementation while the contract for the construction of the civil works was awarded by NEPA to the Italian firm TORNO SPA towards the end of 1978.

Other components of the project were awarded to different companies, which included the Austrian firm VOEST ALPINE for the supply and installation of the hydraulic turbines and governors, INGRA RADE CONCAR of the Federal Republic of Yugoslavia for the supply and installation of the generator and excitation system, MITSUBISHI/TOSHIBA of Japan for the generator-transformer and GEC of UK for the protective relays and control equipment. High voltage switchgear and other switchyard equipment were supplied by SIEMENS AG of the Federal Republic of Germany while CEI of Italy handled electrical installations and ancillary plant items. A Spanish company, BYNSA supplied the project cranes. In a similar vein, both the power intake and spillway gates together with the associated electro-hydraulic control equipment were supplied by TAMPELLA of Finland.

The Dam

The dam is of the rock-fill type and stands 115 metres high above the original riverbed elevation, across Shiroro Gorge for a crest length of 700 metres. The width of the dam at the toe is over 300 metres whilst its crest, which accommodates a service road, is 7.50 metres wide. The crest of the dam has a heavy reinforced concrete parapet wall, more than 5 metres high, which is also designed to protect the top of the dam from the waves will build up in the lake, under wind pressure. The body of the dam has no

DESCRIPTION OF SHIRORO HYDROELECTRIC POWER STATION

central impervious core; the imperviousness of the structure is ensured by a continuous reinforced concrete slab, placed with a special technique on its upstream face. The reservoir covers a total surface area of 320 square kilometres with a gross storage capacity of 7 billion cubic metres.

Installed Capacity

The station has a total installed capacity of 600 MW from 4 generating units rated at 150 MW each at a head of 97 metres. Each unit comprises a vertical Francis-hydraulic turbine unit controlled by an electrohydraulic governor. The turbine drives the a syn-

chronous generator of salient pole construction having a net output of 150 MW. The generator is excited by a static self-excitation system. The Speed of rotation for the unit is 150 revolution per minute (RPM). These turbine generators are capable of independent operation.

Power is generated at 16-kV voltage level. A generator-transformer steps up the voltage to 330-kV voltage level for connection to the national grid via the agency of a 330kV switchyard. The national grid constitutes a “power pool” to which all the power stations and load centres are connected.

