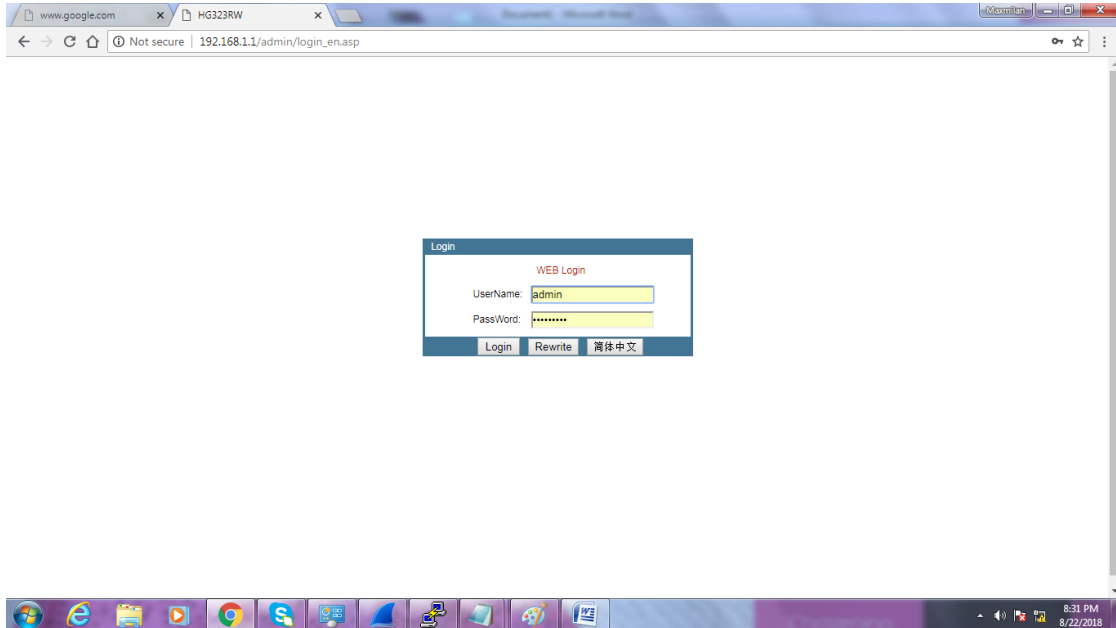


Configuration in ONT for BSNL Service (Netlink Model HG323RW)

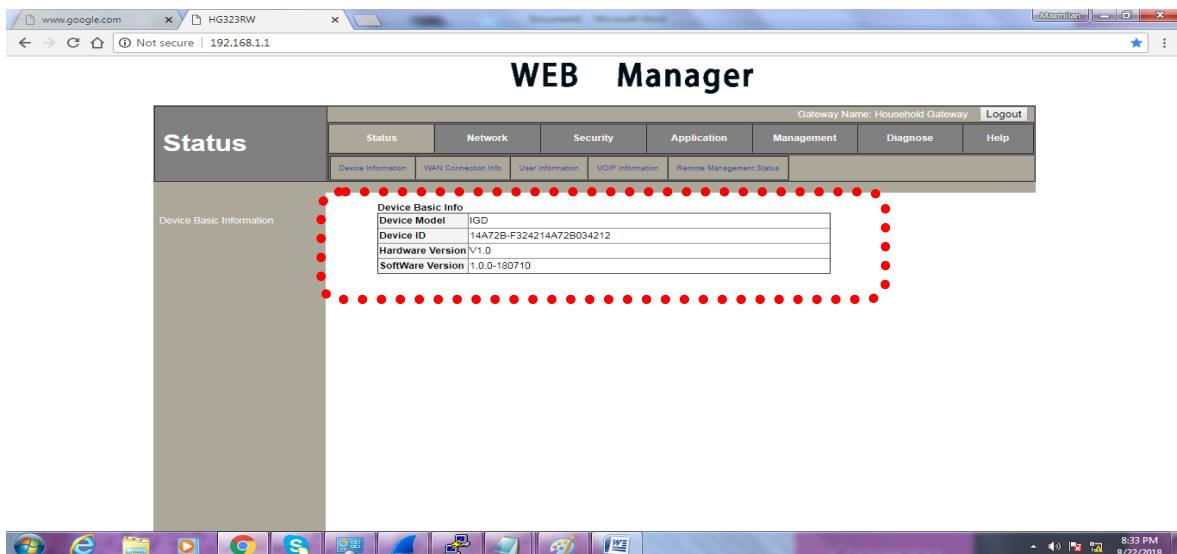
Default ONT IP is **192.168.1.1** Username **admin** Password **stdONU101**

Connect PC with LAN cable to Lan1 of ONT Set PC IP as 192.168.1.10 Mask as 255.255.255.0 ,Gateway as 192.168.1.1 and DNS as 192.168.1.1

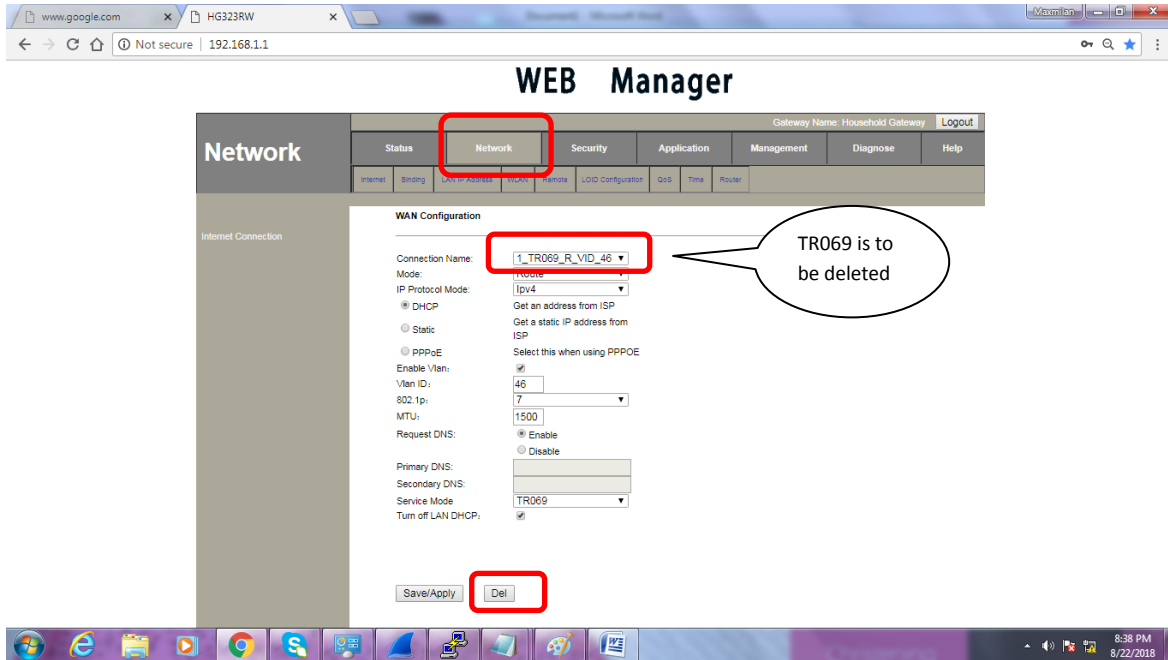
Then open any browser eg Google chrome enter IP address 192.168.1.1 then username password of ONT



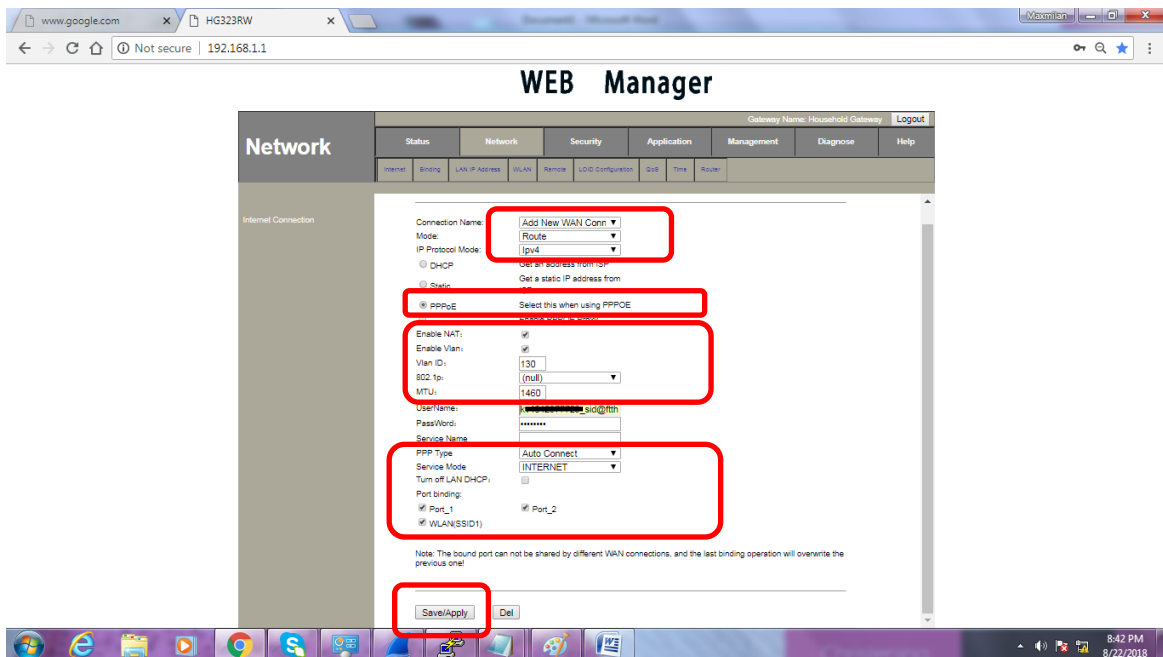
First Login Screen (Pls Note this is the latest firmware from Netlink)



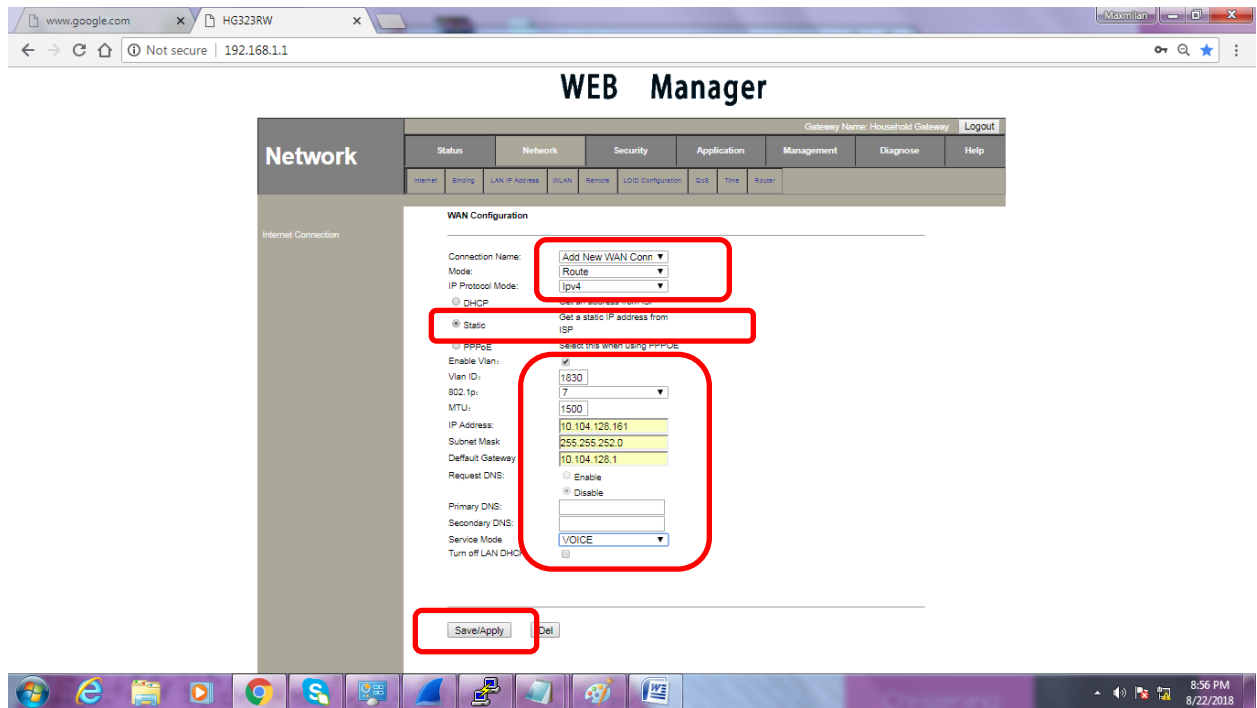
Setting of Internet Interface for that take Network Menu (There will be another default interface it has to be deleted first)



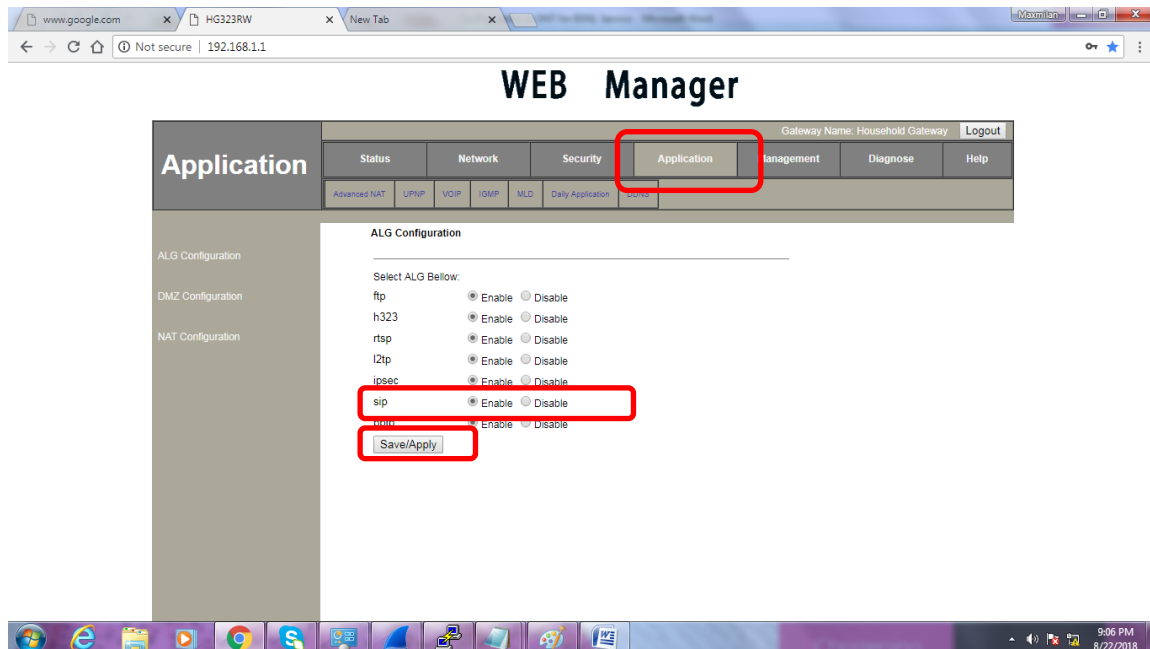
Now New Interface for BSNL can be created with username password VLAN given by BSNL Always select Service Mode as **Internet , Never Select** Turn off LAN DHCP
MTU value 1460 , **Select all ports**



Voice Interface Creating always select Service Mode as **VOICE** , 802.1p as **7** and IP mask Gateway as given by BSNL



VOICE Telephone Number Setting Select **SIP Enable** in Application Menu if not done Outgoing Call may not be possible



VOICE Server Settings in VOIP Menu Select Server Type as **Softswitch SIP**

The screenshot shows the WEB Manager interface for a 'Household Gateway'. The 'Application' tab is selected, and the 'VOIP' sub-tab is active. The 'Server Type' is set to 'Soft Switch SIP'. The 'Line 1' section is highlighted with a red box, and a callout bubble points to it with the text 'Select Line Enable'. The 'Save/Apply' button is also highlighted with a red box.

Field	Value
Server Type	Soft Switch SIP
Primary SIP Register Addr	192.168.140.78
SIP Register Port	5060
Secondary SIP Register Addr	192.168.140.78
SIP Register Port	5060
Primary SIP Proxy Address	192.168.140.78
Subscribe	<input type="checkbox"/>
PORT	5060
Enable Outbound Proxy	<input type="checkbox"/>
Outbound Proxy Addr	192.168.140.78
Outbound Proxy Port	5060
SIP Domain	
Reg Expire (sec)	3600
Enable Session timer	<input type="checkbox"/>
Session Expire (sec)	1800
Secondary SIP Proxy Address	<input type="checkbox"/>
Subscribe	<input type="checkbox"/>
Address	192.168.140.78
PORT	5060
Enable Outbound Proxy	<input type="checkbox"/>
Outbound Proxy Addr	
Outbound Proxy Port	5060
SIP Domain	
Reg Expire (sec)	3600
Enable Session timer	<input type="checkbox"/>
Session Expire (sec)	1800
Line 1	<input type="checkbox"/>
Enabled	<input checked="" type="checkbox"/>
Account number	0149420
Account name	0149420

To Check if VOICE is Working In Status > VOIP Information it will be **Registered**

The screenshot shows the WEB Manager interface for a 'Household Gateway'. The 'Status' tab is selected, and the 'VOIP Information' sub-tab is active. The 'Service State' is 'Registered'. A red box highlights the 'Registered' text.

Field	Value
Service State	Registered
Phone Number	0149420

Checking if Internet is OK Status WAN Connection Info Status Should be **UP** and Default Gateway will be shown

The screenshot shows the 'WEB Manager' interface for a 'Household Gateway'. The 'Status' tab is selected, and 'WAN Connection Info' is highlighted. Below this, there are two tables:

Interface	VLAN ID	Protocol	IGMP	Status	IP Address	Netmask
1_INTERNET_R_VID_130	130	PPPoE	Enable	up	59.93.35.198	255.255.255.255
2_VOICE_R_VID_1830	1830	IPoE	Disable	up	10.104.128.161	255.255.252.0

Service Interface	Default Gateway	Primary DNS	Secondary DNS
1_INTERNET_R_VID_130	59.93.34.1	218.248.112.1	218.248.112.97
2_VOICE_R_VID_1830	10.104.128.1		

Voice Features like Not getting proper Dial Tone , It is determined by **Tone of Country** in ONT (Not related to BSNL)

The screenshot shows the 'WEB Manager' interface for a 'Household Gateway'. The 'Application' tab is selected, and 'VOIP' is highlighted. The 'Advanced VOIP Configuration' section is visible, with the 'Tone of Country' dropdown menu set to 'UK'. A speech bubble points to this dropdown with the text: "Select UK it most resembles India , China or TW tone is like Busy Tone".

Then Click **Apply /SAVE**

Configuring Wifi

The screenshot shows the WEB Manager interface for a Household Gateway. The 'Network' tab is selected, and the 'WLAN' sub-tab is active. The 'WLAN Basic' section is highlighted with a red box. The SSID field is set to 'My Home Wifi' and is also highlighted with a red box. A speech bubble points to this field with the text 'Wifi Signal Name'. Other settings include Band: 2.4 GHz (B+G+N), Mode: AP, WMM: checked, SGI: checked, Channel Width: 20MHz, Channel Number: Auto, Current Channel: 4, and Client Number: Disable. The 'Apply Changes' button is highlighted with a red box. The Windows taskbar at the bottom shows the time as 10:41 PM on 8/22/2018.

Wifi Password

The screenshot shows the WEB Manager interface for a Household Gateway, specifically the 'WLAN Security Settings' section. The 'WLAN Security' section is highlighted with a red box. The SSID Type is set to 'My Home Wifi'. The Encryption is set to 'WPA2 Mixed'. The Authentication Mode is set to 'Personal (Pre-Shared Key)'. The WPA Cipher Suite is set to 'TKIP' and 'AES'. The WPA2 Cipher Suite is set to 'TKIP' and 'AES'. The Group Key Update Timer is set to 86400. The Pre-Shared Key Format is set to 'Passphrase'. The Pre-Shared Key field is highlighted with a red box and contains a masked password. A speech bubble points to this field with the text 'Give Wifi Password per Customer choice it must be minimum 8 characters'. The 'Apply Changes' button is highlighted with a red box. The Windows taskbar at the bottom shows the time as 10:45 PM on 8/22/2018.

Diagnosis pinging to Internet from Inside ONT

The screenshot shows the WEB Manager interface with the 'Diagnose' tab selected. The 'PING Test' section is visible, with the 'Dest IP Address' field set to '8.8.8.8' and the 'WAN interface' set to '1_INTERNET_R_VID_130'. A 'Ping' button is located below the configuration fields. The interface includes a top navigation bar with 'Status', 'Network', 'Security', 'Application', 'Management', 'Diagnose', and 'Help' tabs. The 'Diagnose' tab is highlighted with a red box. The 'Dest IP Address' field and the 'Ping' button are also highlighted with red boxes.

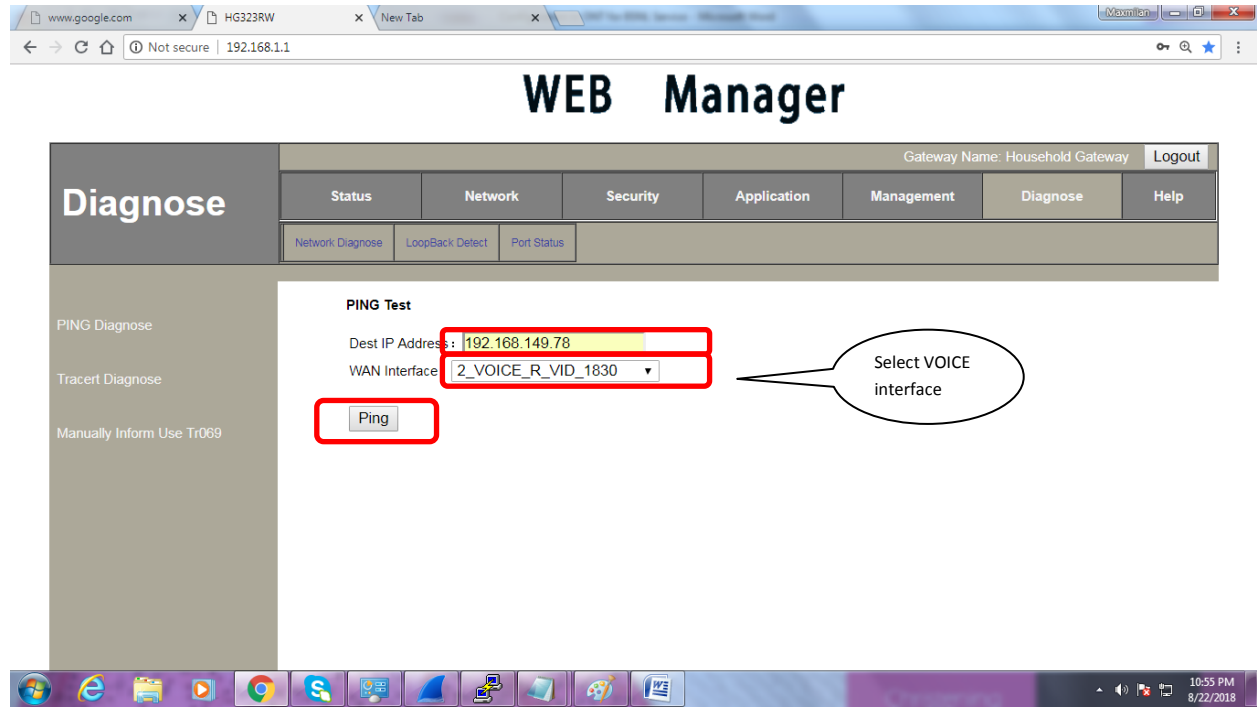
Result should be like below

The screenshot shows the WEB Manager interface with the 'Diagnose' tab selected. The 'PING Test' section displays the results of the ping test. The results are as follows:

```
Finish
PING 8.8.8.8 (8.8.8.8): 56 data bytes
64 bytes from 8.8.8.8: seq=0 ttl=45 time=50.000 ms
64 bytes from 8.8.8.8: seq=1 ttl=45 time=50.000 ms
64 bytes from 8.8.8.8: seq=2 ttl=45 time=50.000 ms
64 bytes from 8.8.8.8: seq=3 ttl=45 time=50.000 ms
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 50.000/50.000/50.000 ms
```

A red box highlights the entire output text. A speech bubble points to the '0% packet loss' line, containing the text 'Note 0% packet loss'. A 'back' button is visible below the output text.

Diagnosis pinging to VOICE Server from Inside ONT (**To be checked First for any VOICE issue if not pinging check ONT / OLT VLAN**) If Pinging ok then VOICE Username password / any other settings wrong in ONT ,reconfigure VOICE in ONT



Result will be like below

