Provisional Acceptance Test

of the work

"Billing Software Development"

Document Title

Customer:	None
Title:	Billing Software Development

Document Control

Author(s), quality control and client sign-off			
	Company	Name	Signature
Author(s):			
Review And Verification:			

Distribution List

Copy Number	Name
01	
02	
03	
04	

Table of Contents

1 . Background

██ intends to procure billing software for its customer care department to generate bills and reports based on its types of customers. The Bidding Document titled ██ has been prepared for this purpose. ██ is a Core Telecommunications service provider primarily through the international Submarine Cables. Emerging in July 2008, ██████ presently handles the SEA-ME-WE-4 and SEA-ME-WE-5 submarine cables and represents the country in the SMW-4 and SMW-5 international cable consortium.

██████ is selling customer-oriented services. Therefore, ██████ needs to generate the monthly bills for its customers and collect the bills as well. It is also needed to generate different types of reports. Customer dues and payments and other customized reports for the management ████████. Regarding its dues and the payment that is made. To the date ██████ is generating pre-paid invoices for monthly bills, demand notes etc. Manually using Microsoft Excel. All the required reports are also generated manually. ████████ wants to procure billing software to automate its billing system which will support pre-paid billing, post-paid billing and all the above-mentioned facilities.

2 . Procedure & Entities

2.1 Acceptance Test Items

- Modules.
- Version.

2.2 PAT Schedule:

SL#	ITEMS	Start Date	End Date
1	Modules		
2	Version		
3	Annexure		
		31-July-2022	1-August-2022

3. Item to be tested

3.1 Modules Check

No	Module Name	Test Parameters	Expected Output	Status
1	Customer Information	Add, View, Edit and Delete Customer Information, Customers Roles & Permission and Services by selecting specific users, roles and services	User will successfully perform all the operations	**Done** (Screen Shots added below)
2	Roles & Permission	User wise roles & permission can be set	Roles & Permission will successfully work	**Done** (Screen Shots added below)
3	Product/ Service Information	Add, View, Edit and Delete Product/ Service Information and Sub Services of different stations	User will successfully perform all the operations	**Done** (Screen Shots added below)
4	Bandwidth Rates/Charges	Rates and Charges are based on services	Rates and Charges are working properly	**Done** (Screen Shots added below)
5	Adjustments	Enter Adjustments details	Adjustment Calculation will automatically generate	**Done** (Screen Shots added below)
6	VAT/TAX	Enter VAT/TAX information in the field	VAT/TAX will automatically Add with the Net price	**Done** (Screen Shots added below)
7	Discount	Enter the Discount Amount	Amount will automatically subtract from the Net price	**Done** (Screen Shots added below)
8	Demand Note	1. Registration Fee 2. Installation Charge 3. Types of Ports 4. Number of Ports 5. MRC 6. Default Discount on MRC (If any) 7. Additional Special Management Discount 8. VAT/BIN 9. Security Deposit 10. Total Payable Amount	All the fields will take input properly	**Done** (Screen Shots added below)
9	Invoice	IPLC Service/ IP Transit Service-- 1. Subscriber's Name, Address and BIN 2. Issuer's ▮▮▮▮ Name and BIN 3. Printing Date 4. Billing period	1. Discounts will automatically be calculated in discount fields for both wet segment and Backhaul	**Done** (Screen Shots added below)

		5. Circuit Information and Capacity of the circuits 6. Changes occurring in the billing period 7. Type of Service (IPLC/IP Transit) Submarine Cable System and Location of the circuit 8. MRC for subscribed wet segment 9. MRC for Backhaul based on backhaul capacity (optional). 10. Default discounts will automatically be calculated in discount fields for both wet segment and Backhaul 11. Special discounts (Management) will automatically be calculated in discount fields for wet segment and Backhaul rate should be mentioned. 12. Billing amount and VAT amount should be mentioned separately for both Wet segment and Back haul. 13. Net payable will be calculated by adding VAT with Billing amount. 14. There should be an option to add a section in case any previously generated invoice should be adjusted. 15. There should be a Remarks Column that can be edited manually. 16. Payment instructions and other notices. 17. Digital Signature 18. Invoice No. following ▮▮▮ Standard 19. If required, there should have an option to generate an annexure that contains clients' Number of circuits, capacities, activation/deactivation date, circuit ID and designations etc.) 20. Copy to 21. Attachments (Optional) COLOCATION Service- 1. Subscriber's Name and Address, BIN 2. Billing period 3. Rack Space hired 4. Unit price for Rack Space 5. Port charges for different capacity (STM-1, STM-4, STM-16, STM-64, 10GE, 100GE)	2. Special discounts (Management) will automatically be calculated in discount fields for wet segment and Backhaul rate should be mentioned. 3. Net Payable will be calculated 4. Invoice will be generated successfully	

No				
		6. Hired Power Consumption/ Electricity Consumption 7. Unit Price for Power Consumption 8. Total MRC		
10	Billing			
11	Report	Monthly financial statements of the customers will be automatically produced and accessible by the system	User will get the account statement through EMAIL	**Done** (Screen Shots added below)

3.2 Version Check.

No	Test Description	Proposed Technology	Expected Output	Status
1	System Frontend	Vue JS, HTML5, AJAX, CSS, Bootstrap	As Expected	
2	System Backend	PHP 7.5	As Expected	
3	Framework	Laravel 8	As Expected	
4	Design Pattern	MVC	As Expected	
5	Database Engine	MySQL, Firebase	As Expected	
6	Web API	RESTful API	As Expected	

7	Search Engine	Elastics/Haystack search engine	As Expected
8	Caching Technology	Redis, Memcached, Varnish, Squid	As Expected
9	Service Environment	LAMP	As Expected
10	Project Management Tools	Slack, Trello, Jira Issue Tracker	As Expected
11	Version Control	GitHub	As Expected
12	Design Tools	Adobe XD, Photoshop, Illustrator	As Expected
13	Testing Tools	Selenium, Zephyr, Testpad	As Expected

4. Annexure

Customer Information-

Customer Type-

Demand Note List (IPLC/IPT)-

SL	Company Name	Type	Service	Sub Service	Circuit	Capacity Name	Group/Zone	Tariff	MRC	Activation Date	Approval Status	Action
1	Novocom Ltd.	IIG (IPT)	IP Transit	IP Transit Rates for IIG	N/A	30000 Mbps – 39999 Mbps	Dhaka	325	975000		Pending	View Status
2	BD Link Communication Ltd.	IIG (IPLC)	IPLC	SMW - 5 (IIG)	STM-1	STM-1	Equinix	150000	150000		Approved	View
3	BD Link Communication Ltd.	IIG (IPLC)	IPLC	SMW - 5 (IIG)	STM-1	STM-1	Equinix	150000	150000		Approved	View
4	Level 3 Carrier Limited	IIG (IPLC)	IPLC	SMW - 5 (IIG)	10G	Each 10G upto 50G	Equinix	2700000	2700000		Approved	View
5	Fiber @ Home Global Ltd.	IIG (IPLC)	IPLC	SMW - 5 (IIG)	STM-4	STM-4	Marseilles	450000	450000		Approved	View
6	Novocom Ltd.	IIG (IPT)	IP Transit	IP Transit Rates for IIG	N/A	30000 Mbps – 39999 Mbps	Dhaka	325	11489725	2022-06-29	Approved	View
7	Novocom Ltd.	IIG (IPT)	IP Transit	IP Transit Rates for IIG	N/A	100 Mbps – 4999 Mbps	Dhaka	415	415000	2022-06-15	Approved	View
8	Apple Communication Ltd.	IIG (IPLC)	IPLC	SMW-4 (IIG)	E1	E1	Group B	5500	5500	2022-07-17	Approved	View
9	Apple Communication	IIG	IPLC	SMW-4 (IIG)	E1	E1	Group A	5000	5000		Approved	View

Demand Note List (COLOCATION)-

Co-Location DemandNote List

SL	Company Name	Type	Service	Sub Service	Circuit	Capacity Name	Group/Zone	Tariff	MRC	Activation Date	Approval Status	Action
1	Level 3 Carrier Limited	IIG (IPLC)	COLOCATIONSERVICE	CO-LOCATION SERVICE	STM-4	STM4/ 4xSTM1	CO-LOCATION SERVICE	25000	25000	2022-07-13	Approved	view
2	Windstream Communication Ltd.	IIG (IPLC)	COLOCATIONSERVICE	CO-LOCATION SERVICE	10G	STM64/10G	CO-LOCATION SERVICE	180000	180000	2022-07-10	Approved	view
3	Apple Communication Ltd.	IIG (IPLC)	COLOCATIONSERVICE	CO-LOCATION SERVICE	STM-4	STM4/ 4xSTM1	CO-LOCATION SERVICE	25000	25000		Pending	view Status

Sidebar:
- Demand Note
  - Co-location List (IPLC)
  - Co-location List (IP Transit)
  - IPLC List
  - IP Transit List
- Billing
  - Billing List (IPLC)
  - Billing List (IPT)
- Report Generate
- Services
  - COLOCATIONSERVICE
  - IP Transit
  - IPLC
- Tariff
  - COLOCATIONSERVICE

Services and Sub services (IPT and IPLC)

Services Name : IP Transit

+ Add New Sub Service

SL	Sub Service Name	Capacity	Group/Zone	Action
1	IP Transit Rates for ISP	100 Mbps – 4999 Mbps / 5000 Mbps - 9999 Mbps / 10000 Mbps – 19999 Mbps / 20000 Mbps – 29999 Mbps	Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata	✎
2	IP Transit Rates for IIG	100 Mbps – 4999 Mbps / 5000 Mbps - 9999 Mbps / 10000 Mbps – 19999 Mbps / 20000 Mbps – 29999 Mbps / 30000 Mbps – 39999 Mbps / 40000 Mbps – 49999 Mbps / 50000 Mbps and 64999 Mbps / 65000 Mbps and 79999 Mbps / 80000 Mbps and 99999 Mbps	Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata Dhaka Chittagong Cox's Bazar Kuakata	✎

Sidebar:
- Demand Note
- Billing
- Report Generate
- Services
  - COLOCATIONSERVICE
  - IP Transit
  - IPLC
- Tariff
- Configuration
- Manage Customers
- Manage Application

Services Name : IPLC

SL	Sub Service Name	Capacity	Group/Zone	Action
1	SMW-4 (IIG)	E1	Group A Group B Group C	✎
2	SMW - 5 (IIG)	E1 DS3(21 x E1 / 45 Mbps) STM-1 STM-4 Each STM-16 upto 30G Each STM-16 above 30G (upto 50G) Each STM-16 above 50G (upto 100G) Each STM-16 above 150G (upto 200G) Each STM-16 above 200G Each 10G upto 50G Each 10G above 50G (upto 100G) Each 10G above 100G (upto 150G) Each 10G above 150G (upto 200G) Each 10G above 200G(Upto 250G) Each 10G above 250G(Upto 300G) Each 10G above 300G(Upto 350G) Each 10G above 350G Each 100g (100) Each 100g (200) Each 100g (300) Each 100g (400) Each 10G upto 50G Each 10G upto 50G Each 10G upto 50G	Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles Equinix Marseilles	✎

Demand Notes Create for IP Transit, IPLC, COLOCATION:

Demand Note Form IP-Transit

Company Name
Select Company
The Company field is required

Bandwidth
Quantity

Sub Service (Licence)
Select Submarine

Licence Type
Select Licence

POP
Select POP

Unite Rate
Tariff

MRC
MRC In BDT

Port
Select port

Port Quantity

Discount(%)
Enter adjust/discount

Adjust/Additional Discount
Enter Special Discount

Add/Subtract

Remarks
Enter Remarks

Security Deposit
Enter security deposit

Submit

Demand Note Form IPLC

Sidebar Navigation:
- Demand Note
  - Co-location List (IPLC)
  - Co-location List (IP Transit)
  - IPLC List
  - IP Transit List
- Billing
- Report Generate
- Services
- Tariff
- Configuration
- Manage Customers
- Manage Application

Company Name
Select Company

Submarine Cable
Select Submarine

Circuit Type
Select Circuit

Stations/Group
Select Stations/Group

Unite Rate
Tariff

MRC
MRC In BDT

Discount(%)
Enter adjust/discount

Adjust/Additional Discount
Enter Special Discount

Add/Subtract

Remarks
Enter Remarks

Security Deposit
Enter security deposit

Submit

Co-Location Demand Note Form

Demand Note List

Sidebar Navigation:
- Demand Note
  - Co-location List (IPLC)
  - Co-location List (IP Transit)
  - IPLC List
  - IP Transit List
- Billing
- Report Generate
- Services
- Tariff
- Configuration
- Manage Customers
- Manage Application

Services
Select Service

Company Name
Select Company

MRC
0

Rack Space
Select Rack Space

Rack Space Quantity
1

Power
Select Power

Power Quantity
1

MRC 2
0

Discount
Enter adjust/discount

Adjust/Additional Discount
Enter Special Discount

Add/Subtract

Remarks
Enter Remarks

Security Deposit
Enter security deposit

Submit

Roles & Permission-

5.Recommendation

Overall Provisional Acceptance Test (PAT) has been successfully done with satisfactory results on all of the items. So, the issuance of Provisional Acceptance Certificate (PAC) is recommended.

Signature of PAT Members:

_____
1. **Name:**
   Designation:

_____
2. **Name:**
   Designation:

_____
3. **Name:**
   Designation:

6. PAT Sign-off

This PAT was conducted with teams and QA engineers professionally.

This PAT document certifies that the ███████ has been completed in liaison of the proposal and has customer's contentment

Below is the final sign-off and summary of the tests covered by this PAT:

"Billing Software Development"	
PAT Team	**PAT Team**
Name: Designation: Date: Signature:	Name: Designation: Signature: