# **CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT**

# **Guaranteed Standards - Unplanned Power Supply Interruptions SHEET - 1**

ANNUAL PERFORMANCE REPORT FOR THE YEAR 2015-16

Consumer Supply	Total number of Unplanned Consumer Power	-	nned Consumer Power uptions (GS1U)	Number of rural Unplanned Consumer Power Supply Interruptions (GS1U)		
Voltage	Supply Interruptions	Restored Extending within 10 hrs. beyond 10 hrs.		Restored within 16 hrs.	Extending beyond 16 hrs.	
220 kV	-	-	-	-	-	
132 kV	30	28	2	0	0	
66 kV	-	-	-	-	-	
33 kV	-	-	-	-	-	
11 kV	240	21	0	219	0	
400/230 V	232359018	128677999	0	103681019	0	

# SHEET - 2

Consumer Supply Voltage	Maximum permitted number of Unplanned Power Supply Interruptions for each individual consumer per annum (GS2)	Unplanned Power	Maximum permitted Aggregate duration of Unplanned Interruptions for each individual consumer per annum. (hours) (GS3)	Number of consumers whose aggregate Unplanned Power Supply Interruption time exceeded the maximum limit of GS3
220 kV	6	-	26	•
132 kV	6	-	26	-
66 kV	6	•	26	-
33 kV	30	-	44	-
11 kV	30	-	44	-
400/230 V Urban	60	-	88	-
400/230 V Rural	80	-	175	-

FORM - 2
CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT

# **Guaranteed Standards - Planned Power Supply Interruptions SHEET - 2**

Consumer Supply Voltage	Maximum permitted number of Planned Power Supply Interruptions for each individual consumer per annum (GS4)	Number of consumer whose Planned Power Supply Interruptions exceeded the maximum limit of (GS4)	Maximum Power Supply Interruption aggregate duration (Hours) for each individual consumer per annum (GS5)	Number of consumers whose aggregate Planned Power Supply Interruption duration exceeded the maximum limit of GS5
220 kV	6	-	26	-
132 kV	6	-	26	-
66 kV	6	-	26	-
33 kV	30	-	44	-
11 kV	30	-	44	-
400/230 V Urban	60	-	88	-
400/230 V Rural	80	-	175 (Dist Co) 240 (KESC)	-

FORM - 3

# **CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT**

# **Guaranteed Standards - Unplanned Short Duration Power Supply Interruptions**

SHEET - 3
ANNUAL PERFORMANCE REPORT FOR THE YEAR 2015-16

Consumer Supply Voltage	Maximum permitted number of short duration Power Supply Interruptions for each individual consumer per annum (GS6)	Number of consumer whose Planned Power Supply Interruptions exceeded the maximum limit of (GS6)
132 / 66 kV	4	-
33 / 11 kV	140	-
400 / 230 V Urban	275	-
400/230 V Rural	300	-

**FORM - 4** 

# **CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT**

Overall Standards - Average Power Supply Interruption\*

SHEET - 4

Consumer Supply Voltage	Total number of consumers served by the distribution company in a given year	Total annual number of consumer Power Supply Interruptions**	SAIFI (OS1) (4) = (3) / (2)	Aggregate Sum of all Consumer Power Supply Interruption Duration in Minutes***	SAIDI (OS2) (6) = (5) / (2)
(1)	(2)	(3)	(4)	(5)	(6)
220 kV	0	0	0	0	0
132 kV	6	32	5.33	7324	1220.66
66 kV	0	0	0	0	0
33 kV	0	0	0	0	0
11 kV	42	240	5.71	4859	116.00
400/230 V	1008714	185846535	184.00	12733134527	12623.00

<sup>\*</sup> Calculation of SAIFI (OS1) and SAIDI (OS2) shall not include any power supply interruptions caused due to failure or outage (planned or unplanned) on the Generation and/or Transmission System (Owned by NTDC) or another Licensee's System.

<sup>\*\*</sup> Total annual number of consumers power supply interruptions shall be computed by summating the total number of consumers affected by each and every power supply interruption for all the power supply interruptions in a given year.

<sup>\*\*\*</sup> Aggregate sum of all consumer power supply interruption durations in minutes shall be computed by summating, for each and every power supply interruption, the product of total number of consumers affected by power supply interruption and the duration of such power supply interruption in minutes.

# FORM - 5 CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT Guaranteed Standards - Time Frame for New Connections \*

#### SHEET - 5

Eligible consumer's new power supply connection requirements (voltage and load level specific)	Time limit for issuance of Demand Notice after receipt of application	Total number of consumer who applied for new connection	Total number of eligible consumers who applied for a new connection and demand notices were issued within the maximum permitted time period as modification in Rule 4@ on 13.05.2011	Total number of eligible consumers who applied for a new connection and demand notices were not issued within the maximum permitted time period as modification in Rule 4@ on 13.05.2011	Time limit for provision of connection after payment of demand notice	Total Number of Eligible Consumers who paid the demand notice for new connections.	Total number of eligible consumers who paid the demand notice for new connection and were connected within the maximum permitted time period of OS3	Total number of eligible consumers who applied for new connection but did not received connection the maximum time limit as modification in Rule (C) on 13.05.2011.
Voltage level up to 400 V and load up to 15 kW,	10	30094	30094	0	20	28574	28574	0
Voltage level up to 400 V and load above 15 kW but not exceeding 70 kW	15	648	648	0	38	601	601	0
Voltage level up to 400 V and load above 70 kW but not exceeding 500kW	15	134	134	0	58	129	129	0
Voltage level 11 kV or 33 kV and load above 500 kW but not exceeding 5000 kW.	30	3	3	0	76	3	3	0
Voltage level 66 kV and above for all loads.	45	1	1	0	451	1	1	0

FORM - 6

# CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT

# **Overall Standards - Nominal Voltages**

#### SHEET - 6

Consumers supply voltage (OS4)	Maximum permitted voltage level deviations	Number of consumers who requested their power supply voltage levels to be checked	Number of times where a remedial action followed a consumer request about his power supply voltage level check
220 kV (if applicable)	+/- 5%	0	0
132 kV	+/- 5%	0	0
66 kV	+/- 5%	0	0
33 kV	+/- 5%	0	0
11 kV	+/- 5%	0	0
400/230 V Urban	+/- 5%	38	38
400/230 V Rural	+/- 5%	148	148

# **CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT**

# **Overall Standards - Frequency**

#### SHEET - 7

Consumers frequency	Maximum permitted frequency deviations	Total number of consumers who requested their frequency levels to be checked	Total number of times where a remedial action followed a consumer request about his frequency level check
50 Hertz.	± 1%	-	-

#### CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT

**Overall Standards - Load shedding.** 

#### SHEET - 8

#### ANNUAL PERFORMANCE REPORT FOR THE YEAR 2015-16

Priority group of consumers	Number of instances of actuation of load shedding (OS6)	Average duration of load shedding period (Hours)	Maximum duration of load shedding period (Hours)	Number of consumers affected in each priority group	Load (MW) interrupted due to load shedding in each priority group	
Consumers in rural area, and residential consumers in urban areas.	6	6	8	242300	366 MW	
Consumers other than industrial in urban areas.	6	6	6	36661	81 MW	
Agricultural consumers where there is dedicated supply.	8	8	8	16756	62 MW	
Industrial consumers.	-	-	-	14600	-	
Supply to schools and hospitals.	There are two separate feeders for hospital in HESCO, which are exampeted from load shedding. The remaining schools & hospitals are not fed separately, hance load shedding schedul of residencial consumers is applied accordingly					
Defense / Strategic installations.	-	-	-	-	-	

Each instance of load shedding shall be individually reported on an immediate basis giving the following information:

- a) Reason for load shedding (Generation Shortage, Transmission Constraints, Voltage Outside Limits etc.).
- b) Start time and date of load shedding.
- c) End time and date of load shedding.
- d) Priority group of consumers affected.
- e) Numbers of consumers and load (MW) affected in each priority group.
- f) Measures taken to prevent recurrence ( if applicable ).

### CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT

# **Overall Standards - Safety**

#### SHEET - 9

#### ANNUAL PERFORMANCE REPORT FOR THE YEAR 2015-16

Type of incident	Number of electrical incidents	Average duration of absence from work	Longest duration of absence from work
Electrical incident resulting in death or permanent serious injury/disability to member of staff.	7	18 days	0
Electrical resulting in injury to member of staff requiring hospital treatment or absence from work for five days or more.	13	18 days	48 days
Electrical incident resulting in injury to member of staff requiring absence from work for 1-5 days.	1	3 days	3 days
Electrical incident resulting in injury to member of staff not requiring absence from work.	0	0	0
Electrical incident resulting in death or permanent serious injury / disability to member of the public.	17	0	0
Electrical incident injuring member of the public involving distribution company's plant or equipment.	4	0	0
Electrical incident injuring member of the public not involving distribution company's plant or equipment.	15	0	0
Safety reports received on toll free telephone number.	0	0	0

Each electrical incident shall be individually reported on an immediate basis giving the following information:

Time and date of electrical incident, FIR lodged or not, names and occupation of persons involved, number of fatalities, extent of injuries, names and contact details of witnesses, distribution company's inquiry held or not, immediate action taken, and remedial actions proposed and/or taken or to be taken.

# **CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT**

# **Consumer Formal Complaints Report**

SHEET - 10

Nature of complaint	Received in person	Received by telephone	Received electronically	Received in writing	Average time in hours to resolve a complaint	Longest time in hours to resolve a complaint
Price of electricity	410	50	0	96	72 hrs	120 hrs
Reliability of supply	3765	14784	0	0	2 hrs	4 hrs
Planned interruptions	412	164	0	10	1.45 hrs	2.3 hrs
Supply voltage level	780	345	0	0	3 hrs	4 hrs
New connection	362	0	0	72	19 days	39 days
Safety	9	2	0	6	1 hrs	2 hrs
Other	35270	0	0	65	6 hrs	7 hrs

FORM - 11
CONSUMER SERVICE AND SYSTEM PERFORMANCE ANNUAL REPORT

# **System performance**

SHEET - 11

ANNUAL PERFORMANCE REPORT FOR THE YEAR 2015-16

System voltage	Total length of distribution system in service (km)	Total number of distribution system faults	Faults / km of Distribution system
220 kV(if applicable)	0	0	0
132 kV	2157.54	574	0.260
66 kV	956.62	53	0.055
33 kV	0	0	0
11 kV	27849.95	7042	0.25
400/230 V	14833.02	33250	2.24

**Note:** Faults at Grid Station or Substations shall be included in the voltage level corresponding to the primary voltage of the Grid Station or Substation.