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051-9252031 /CE (P&E)/PM (GIS) Chief Engineer (P&E) **IESCO** Head Office Street 40, G-7/4, Islamabad

Dated: 24/09/2020

OFFICE ORDER

- The HT Survey of the LLKV Feeders has been completed and LT survey of Islamabad Circle along with two Operation Divisions (City & Satellite Town) of Rawalpindi Circle has also been completed by M/s NESPAK under Contract No. IESCO/NCB/03/GIS/2016-17. This huge investment will not serve the purpose and the existing GIS data shall be outdated unless the Enterprise Management System (EMS) remains up-to-date. In this regard, the Competent Authority is pleased to accord approval of the SOP for Geo-Spatial data updation of all the changes (additions/shifting/removal etc.) along with attribute data updation in the distribution network surveyed by M/s NESPAK.
- 2. This Standard Operating Procedure (SOP) shall be applicable in the Areas of IESCO where Geographical Information System (GIS) has been fully or partially implemented and shall not be applicable in the areas where GIS System has not been implemented. The copy of which will be distributed to each circle.
- 3. The Planning and GIS Cells at Sub Division, Division, and Circle level have been established as per this SOP, the information regarding constitution of these cells up to Sub Division level will be communicated by respective circles to Chief Engineer (P&E) GIS team within 10 days of the issuance of this Office Order.
- From today onward, the progress of updation of GIS shall be discussed in the monthly review meetings of circles.
- The cut-off date for the Field Formations, will be announced by Chief Engineer (P&E) after 5. which the Commercial Procedures of the Company, including Service Connection Order (SCO), Meter Change Order (MCO), Equipment Removal Order (ERO), Reconnection Order (RCO), submission of A-90 of every asset etc. shall not be considered completed unless the Geo-Spatial/Attribute information/GIS map (whichever applicable), shall not be attached.

This is issued with approval of Chief Executive Officer IESCO.

General Manager (Fechnical) HESCO Islamabad

Copy to:

- 1. Chief Executive Officer IESCO for information please.
- GM Operation IESCO for information please.
- 3. General Manager (TSW), IESCO Islamabad.
- 4. Chief Engineer (CSD) IESCO for information.
- 5. Director General (HR), IESCO Islamabad for information please.
- 6. Director General (Admin), IESCO Islamabad for information please.
- 7. Director General (IS), IESCO Islamabad for information and with the request to upload this SOP on IESCO website.
- 8. Finance Director, IESCO Islamabad for information.
- 9. Manager Internal Audit IESCO for information please.
- 10. All SEs Operation Circles IESCO for information and necessary action.
- 11. Project Director Construction IESCO for information and necessary action.
- GIS Master File.

ISLAMABAD ELECTRIC SUPPLY COMPANY LIMITED



STANDARD OPERATING PROCEDURE

FIELD SURVEY, MAPPING THROUGH WEB-BASED ENTERPRISE GIS APPLICATION FOR DISTRIBUTION NETWORK OF IESCO

SEPTEMBER 10, 2020 GENERAL MANAGER (TECHNICAL)

PLANNING AND ENGINEERING DIRECTORATE
IESCO HEAD OFFICE, STREET-40, SECTOR G-7/4, ISLAMABAD

DISCLAIMER

This Standard Operating Procedure (SOP) shall be applicable in the Areas of IESCO where Geographical Information System (GIS) has been fully or partially implemented and shall not be applicable in the areas where GIS System has not been fully or partially implemented.

TABLE OF CONTENTS

Section Introduc		4
Section SOP for		6
	IESCO Surveyor (Sub Division)	7
	IESCO Supervisor (Divisional)	7
	IESCO Supervisor (Circle)	8
2.4	P&E Directorate (GIS Cell)	8
Section	– 3 entation (Roll-Out)	9
	Pre-Implementation Stage:	10
	Post-Implementation Stage:	10
Section		11
	Distribution Network Activities Requiring Updation in EMS	12
	New Connections (All Categories)	12
	Net Metering Connections HT / LT Proposals (Under DOP / ELR)	12 12
	Damage/Dismantlement/Replacement of Material	12
	Shifting Of Equipment	12
	Any Other Change in The Distribution Network	12
Section		13
	posed SOP for General Distribution Network Activities Requiring Updation in EMS	
	New Connections (All Categories)	14
	Net Metering Connections	14 15
5.5	HT / LT Proposals (Under DOP / ELR) 5.3.1 LT Proposals	15
	5.3.2. HT Proposals	15
	5.3.3. Area Planning (Shifting, Safety Hazards, etc.)	15
5.4	Damage / Dismantlement / Replacement of Material	15
	5.4.1 Damage/Dismantlement/Replacement of Distribution Transformers	15
	5.4.2 Equipment Removal Order (ERO)	16
	5.4.3 Disconnection Order (DCO)	16
	5.4.4 Reconnection Order (RCO)	16
	5.4.5 Extension of Load (EOL)	17
	5.4.6 Reduction of Load (ROL)	17
<i></i>	5.4.7 Meter Change Order (MCO)	17
5.5	Shifting Of Equipment 5.5.1 HT Distribution Line	18 18
	5.5.2 LT Distribution Line	18
	5.5.3 Distribution Transformers	18
	5.5.4 Meters Etc.	18
5.6	Any Other Change in the Distribution Network	18
	,	
Section		19
Propose	ed Hierarchy and Creation of New Posts for GIS Cell in P&E Directorate	
Section Annexu		21





INTRODUCTION





SECTION - 1 INTRODUCTION

Under the project "Field Survey, Mapping through Web Based Enterprise GIS Application for Distribution Network of IESCO", has been developed keeping in view of IESCO's requirements. It consists of two parts namely Power Distribution Management System (PDMS) which is an Android Application for HT/LT Attribute Survey and Enterprise Management System (EMS) which is a Web-Based Centralized Application for spatial (Geographic) and Attribute Data representation.

EMS provides a sustainable solution to update GIS Mapping of IESCO Distribution Network. It provides information regarding installed assets at HT and LT Distribution Network(s), maintains corresponding reference data (warehouse), generates multiple reports and offers interfaces to manage feeder along-with user management. The main objective of Standard Operating Procedure (SOP) is to streamline the updating process to be carried out by P&E GIS Team and IESCO Field Formations through Planning & GIS Cells constituted at Circle, Division and Sub Division Levels and the staff has been trained likewise. It shall help in forming the basis of future interventions like AMI, SCADA, Smart Grid, etc.

The ownership of this application shall stand with the operation circles up to Sub Division Level and all the entries during updation and survey of newly added equipment, lines etc. shall be the responsibility of the sub division staff who will survey the area of their jurisdiction and record each and every change in the system. The surveyors at Sub Division level will report to the Divisional / Circle GIS supervisors for validation of their recorded entries and these supervisors will be responsible to report the same to the P&E GIS Cell.

IESCO Customer Services Directorate (CSD) has developed Meter Change Order (MCO) CP-23, Service Connection Order (SCO) CP-08, Reconnection Order (RCO) CP-18, Sundry Job Order (SJO), Completion Report (A-90) etc. proformas / forms incorporating the column for verification / information by the GIS Supervisor regarding attribute and geo-spatial data of the activities. The submission of A-90 of every asset shall not be completed unless the EMS Performa (Annexure - A & B) verified by concerned XEN / SE along with GIS Map is not attached to the A-90 Performa.

This administrative action is required to be brought into practice so that each and every asset of the enterprise Distribution Network could be surveyed and mapped accordingly.





THE ROLES AND RIGHTS FOR E.M.S





<u>SECTION - 2</u> <u>SOP FOR E.M.S</u>

The SOP for efficient operations and maintenance of EMS application has been further grouped with the help of application roles; that have been mutually devised by IESCO and Consultants technical teams. **Annexure-C** contains list of modules, their corresponding pages and the respective rights that are available to each role. The literature below provides description of work and duties of each role.

2.1 <u>IESCO SURVEYOR (SUB DIVISION)</u>:

This role will be assigned to user in each sub division and their primary task shall be to survey any new feeder's HT and/or LT line along with equipment and consumers respectively. This role will also be responsible to update any physical change that requires field work in the HT and/or LT line network. These users shall be in constant communication with nominated IESCO Supervisor and P&E user to request information regarding their assigned feeder or share information with them to update reference data if and when required. IESCO surveyor shall mainly work on the Android application with only view rights to their respective feeder spatially (geographically via maps) on EMS and also can check/verify attribute data. For any correction in attribute data, the Surveyor shall report to Supervisor for any changes in the data. The newly developed peroformas attached with this SOP shall also be signed by sub divisional surveyor before processing. The Planning & GIS Cell at sub division level may constitute 1 to 3 officials with the senior person as surveyor incharge.

2.2 <u>IESCO SUPERVISOR (DIVISIONAL)</u>:

This role will be assigned to user in every division and its primary task shall be to supervise the work done by their designated sub divisional surveyors. IESCO supervisor (divisional) shall assign and revoke feeder(s) to their corresponding surveyors. The user have the rights to add, edit and/or delete any pole, attribute information that might have been entered incorrectly at the time of survey (either when the supervisor is verifying data or on request from respective surveyor). IESCO Supervisor (divisional) shall mainly work on the web-based EMS application and can view/update spatial data of assigned feeders (only feeders of assigned division can be viewed) and make changes to attribute data as and when required. IESCO



supervisor (Divisional) can also work on line loss calculations of their respective division using EMS. The newly developed peroformas attached with this SOP shall also be signed by divisional supervisor (if required) before processing. The Planning & GIS Cell at division level may constitute 1 to 3 officials with the senior person as supervisor incharge.

2.3 <u>IESCO SUPERVISOR (CIRCLE)</u>:

This role will be assigned to user in circle and its primary task shall be to supervise the work done by their designated divisional supervisors / sub divisional surveyors. IESCO supervisor (circle) shall assign and revoke feeder(s) to their corresponding surveyors. The user can add, edit and/or delete any pole, attribute information that might have been entered incorrectly at the time of survey (either when the supervisor is verifying data or on request from respective surveyor). IESCO Supervisor (Circle) shall mainly work on the web-based EMS application and can view/update spatial data of assigned feeders (only feeders of assigned divisions can be viewed) and make changes to attribute data as and when required. IESCO supervisor (Circle) can also work on line loss calculations of their respective divisions using EMS. The newly developed peroformas attached with this SOP shall also be signed by circle supervisor (if required) before processing. The Planning & GIS Cell at circle level may constitute 1 to 3 officials with the senior person as supervisor incharge.

The Deputy Director (Technical) shall be the focal person and shall be responsible to take care of the GIS activities carried out within its circle along with concerned XEN of the Operation Division and Sub Divisional Officer of the concerned operation sub division.

2.4 P&E DIRECTORATE (GIS CELL):

This role shall be the super user of the application. Along with performing all the tasks and accessing all functionalities that are available to IESCO Surveyors and IESCO Supervisors, P&E can create new users and manage them. It will also maintain and update the reference data (warehouse) of the application so that symmetric data entry mechanism can be achieved. P&E role can calculate line losses of all circles and shall have access to various pre-defined reports that can be generated from just a single click of button.





IMPLEMENTATION (ROLL-OUT)





SECTION - 3

<u>IMPLEMENTATION (ROLL-OUT)</u>

Concerned location (working boundary) based users have been created. On the basis of this, roles have been mutually finalized with required privileges to initiate EMS rollout. The roll-out mechanism has been divided into two stages

3.1 PRE-IMPLEMENTATION STAGE:

EMS follows role-based architecture where each role is defined on the basis of assigned privileges. The roles have been finalized and their respective nominated staff shall be finalized by IESCO so that all the concerned employees can take ownership of their duties to operate and update EMS. M/s NESPAK has trained the nominated staff so that their respective role can be assigned for roll-out.

3.2 POST-IMPLEMENTATION STAGE:

The nominated staff trained at implementation stage shall act as master trainers to train users at each level (i.e. Circle, Division and Sub Division) and shall plan roll-out across IESCO.

NOTE:

Initially the roles are being assigned keeping in view of the capability of filed formations, data security, mishandling of data and these roles will be revised taking into consideration the maturity of the implementation system attained by Planning and GIS Cells at Sub Divisions, Divisions and Circles Level.





GENERAL DISTRIBUTION NETWORK ACTIVITIES REQUIRING UPDATION IN EMS





SECTION - 4

4.1 GENERAL DISTRIBUTION NETWORK ACTIVITIES REQUIRING UPDATION IN EMS

The network activities required to be updated in EMS on regular basis are as under:

4.1.1 NEW CONNECTIONS (ALL CATEGORIES)

4.1.2 NET METERING CONNECTIONS

4.1.3 HT / LT PROPOSALS (UNDER DOP / ELR)

- a. LT Proposals
- b. HT Proposals
- c. Area Planning

4.1.4 DAMAGE/DISMANTLEMENT/REPLACEMENT OF MATERIAL

- a. Damage/Dismantlement/Replacement of Distribution Transformers.
- b. Damage/Dismantlement/Replacement of LT/HT Cables & Conductors.
- c. Damage/Dismantlement/Replacement of LT/HT Poles/Structures.
- d. ERO (Equipment Removal Order).
- e. DCO (Disconnection Order).
- f. RCO (Reconnection Order).
- g. Extension of Load.
- h. Reduction of Load.
- i. MCO (Meter Change Order).

4.1.5 SHIFTING OF EQUIPMENT

- a. HT Distribution Line
- b. LT Distribution Line
- c. Distribution Transformers
- d. Meters etc.

4.1.6 ANY OTHER CHANGE IN THE DISTRIBUTION NETWORK





PROPOSED SOP FOR GENERAL DISTRIBUTION NETWORK ACTIVITIES REQUIRING UPDATION IN EMS





<u>SECTION - 5</u> <u>PROPOSED SOP FOR GENERAL DISTRIBUTION</u> NETWORK ACTIVITIES REQUIRING UPDATION IN EMS

5.1 <u>NEW CONNECTIONS (ALL CATEGORIES)</u>

Whenever a New connection will be installed, the Sub Divisional GIS team shall be responsible for taking the coordinates and detail of material on mobile application and forward the same to Division / Circle's GIS Supervisor for incorporation on the same day.

In case of new connection, the SCO shall be countersigned by concerned GIS official in the office of load sanctioning authority. The signatures shall be ensured by the R.O Concerned. A copy of SCO and report shall be sent to P&E Directorate for record. GIS officials at Division level, Circle Level shall countersign the Handing / Taking Over papers and will send a second copy to P&E GIS Cell for record.

The Revenue Officer shall update the information in the database and shall not start billing unless the GIS updation requirement has been fulfilled. The Divisional / Circle GIS team shall monitor the updation and send information to P&E on monthly basis. The SCO Proforma (CP-08) annexed with this SOP shall be followed by the field formations.

5.2 NET METERING CONNECTIONS

Whenever a new Net Metering connection will be installed, the Sub Divisional GIS team shall be responsible for taking the coordinates and detail of material on mobile application and forward the same to Division / Circle's GIS Supervisor for incorporation on the same day. If an existing meter is changed to Net Metering, the information shall be updated by the Sub Divisional GIS team on the same day. The Revenue Officer shall update the information in the database and shall not start billing unless the GIS updation requirement has been fulfilled. The Divisional / Circle GIS team shall monitor the updation and send information to P&E on monthly basis. The SCO Proforma (CP-08) annexed with this SOP shall be followed by the field formations.



5.3 HT / LT PROPOSALS (UNDER DOP / ELR)

5.3.1 LT PROPOSALS

- a. Generation of Proposals by concerned SDO / LS Incharge.
- b. After approval from P&E/Circle Office/Maintenance Head and completion of work by PD (CO)/Operation Sub Division, the work shall be mapped / updated by concerned GIS official (at Sub Division Level). The Handing / Taking Over papers shall be signed by concerned GIS Official (at Sub Division Level)
- c. GIS official at Division level and Circle Level shall countersign the Handing / Taking Over papers and will send a second copy to P&E Directorate for record.
- d. The A-90 shall not be accepted unless it is certified by GIS Official of the concerned Sub division/Division/Circle.
- e. The A-90 proforma developed and annexed with this SOP shall be followed by the field formations

5.3.2. HT PROPOSALS

- a. Generation of Proposal by concerned SDO / LS Incharge.
- b. After approval from P&E and completion of work by PD (CO), the work shall be mapped / updated by concerned GIS official (at Sub Division Level). The Handing / Taking Over papers shall be signed by concerned GIS Official (at Sub Division Level)
- c. GIS official at Division level and Circle Level shall countersign the Handing / Taking Over papers and will send a second copy to P&E Directorate for record.
- d. The A-90 shall not be accepted unless it is certified by GIS Official of the respective Sub division/Division/Circle.
- e. The A-90 proforma developed and annexed with this SOP shall be followed by the field formations

5.3.3. AREA PLANNING (SHIFTING, SAFETY HAZARDS, ETC.)

- a. Generation of Proposal by concerned SDO / LS Incharge.
- Execution authorities are SDO, Technical Committee, and Construction formation.
- c. After completion of work, the same shall be updated by GIS official at Sub Division level and countersigned by GIS officials at Division and Circle levels. The certificate shall be send to P&E for record.
- d. The A-90 shall not be accepted unless it is certified by GIS Official of the respective Sub division/Division/Circle.
- e. The A-90 proforma developed and annexed with this SOP shall be followed by the field formations



5.4 DAMAGED / DISMANTLEMENT / REPLACEMENT OF MATERIAL

5.4.1 <u>DAMAGE/DISMANTLEMENT/REPLACEMENT OF DISTRIBUTION</u> TRANSFORMERS

The Sub Divisional GIS team shall be responsible for intimating the information regarding replaced transformers (its capacity, date of manufacturing etc.) on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E on monthly basis.

- Damage / Dismantlement / Replacement of LT/HT Cables & Conductors
- b. Damage/Dismantlement/Replacement of LT/HT Poles/Structures.

5.4.2 EQUIPMENT REMOVAL ORDER (ERO)

The Sub Divisional GIS team shall be responsible for intimating the information regarding Equipment Removal Order (ERO) of the connections falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E on monthly basis.

The Revenue officer shall update the information in the database as per Procedure in vogue and the billing information will not be updated in this regard unless the GIS updation Performa is not attached with ERO.

The ERO Proforma (CP-16) has been developed in consultation with CSD and is annexed with this SOP.

5.4.3 <u>DISCONNECTION ORDER (DCO)</u>

The Sub Divisional GIS team shall be responsible for intimating the information regarding Disconnection Order (DCO) of the connections falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E on monthly basis.

The Revenue officer shall update the information in the database in the form of attribute data.



5.4.4 RECONNECTION ORDER (RCO)

The Sub Divisional GIS team shall be responsible for intimating the information regarding Reconnection Order (RCO) of the connections falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E on monthly basis.

The Revenue officer shall update the information in the database as per procedure in vogue and the billing information will not be updated in this regard unless the GIS Updation Performa is not attached with RCO.

The RCO Proforma (CP-18) has been developed in consultation with CSD and is annexed with this SOP.

5.4.5 **EXTENSION OF LOAD (EOL)**

Whenever extension of load is executed, the Sub Divisional GIS team shall be responsible for intimating the information regarding Extension of Load for the connections falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E GIS Cell on monthly basis.

The Revenue officer shall update the information in the database as per procedure in vogue and the billing information will not be updated in this regard unless the SCO Proforma annexed with this SOP is not attached with EOL Case.

5.4.6 REDUCTION OF LOAD (ROL)

Whenever reduction of load is executed, the Sub Divisional GIS team shall be responsible for intimating the information regarding Reduction of Load (S.J.O) for the connections falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E on monthly basis.

The Revenue officer shall update the information in the database as per procedure in vogue and the billing information will not be updated in this



regard unless the SCO Proforma annexed with this SOP is not attached with ROL Case.

5.4.7 METER CHANGE ORDER (MCO)

The Sub Divisional GIS team shall be responsible for intimating the information regarding Meter Change Order for the meter falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E on monthly basis.

The Revenue officer shall update the information in the database as per procedure in vogue and the billing information will not be updated in this regard unless the MCO Proforma annexed with this SOP is not attached.

5.5 SHIFTING OF EQUIPMENT

5.5.1 HT DISTRIBUTION LINE

The Sub Divisional GIS team shall be shall be responsible for intimating the information regarding shifting of HT Distribution Line falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E GIS Cell on monthly basis. The A-90 proforma developed and annexed with this SOP shall be followed by the field formations.

5.5.2 LT DISTRIBUTION LINE

The Sub Divisional GIS team shall be responsible .for intimating the information regarding shifting of LT Distribution Network falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E GIS Cell on monthly basis. The A-90 proforma developed and annexed with this SOP shall be followed by the field formations.

5.5.3 DISTRIBUTION TRANSFORMERS

The Sub Divisional GIS team shall be responsible for intimating the information regarding shifting of Distribution transformers falling under their



area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E GIS Cell on monthly basis. The A-90 proforma developed and annexed with this SOP shall be followed by the field formations.

5.5.4 METERS ETC.

The Sub Divisional GIS team shall be responsible for intimating the information regarding Meters' Shifting falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E GIS Cell on monthly basis. The SCO Proforma (CP-08) annexed with this SOP shall be followed by the field formations.

5.6 ANY OTHER CHANGE IN THE DISTRIBUTION NETWORK

The Sub Divisional GIS Team shall be responsible for intimating the information regarding any other change in Distribution Network falling under their area of jurisdiction on the same day to the Divisional / Circle Supervisors who will update the information accordingly. The Divisional / Circle GIS team shall validate the updation and send information to P&E GIS Cell on monthly basis.





PROPOSED HIERARCHY AND CREATION OF NEW POSTS FOR GIS CELL IN P&E DIRECTORATE





PROPOSED HIERARCHY AND CREATION OF NEW POSTS FOR GIS CELL IN P&E DIRECTORATE

0.00			Existing	Proposed	
Office	Incharge	Team members	No. O	f posts	REMARKS
		Project Manager (GIS)	-	1	
		Deputy Manager (GIS) _ T&G	1	-	Re-designation the posts of DM (T&G)
		Deputy Manager (GIS) _ HT	1	-	Re-designation of the posts of DM (DD)
		Deputy Manager (GIS) _ LT	1	-	Re-designation of the posts of DM(Renv)
		GIS Specialist	1	-	
		Assistant Manager (GIS) _ T&G	1	-	Re-designation the posts of AM (T&G)
		Assistant Manager (GIS) _ HT	1	-	Re-designation of the posts of AM (DD)
		Assistant Manager (GIS) _ LT	1	-	Re-designation of the posts of AM(Renv)
ate		Database Specialist	-	1	
tor		Network Administrator	-	1	
rec	PM (GIS)	GIS Supervisor	1	-	
P&E Directorate		Line Superintendent-I	-	5	1 for Each Circle
P&I		Line Superintendent-II	-	5	1 for Each Circle
		Data Coder Supervisor	-	2	For HT & LT
		Data Coder	-	5	1 for Each Circle
		Data Entry Operator	-	2	For HT & LT
		Head Draughtsman	2	1	For LT
		Assistant Draughtsman	2	1	For LT
		Tracer	2	1	For LT
		Driver	2	1	As per Vehicle
		Naib Qasid	7	-	
a. 1		Deputy Manager (Technical)	1	-	
Circle Office	D.M (Tech)	Line Superintendent-I	-	1	
Office		Head Draughtsman	1	-	
5		Deputy Manager (Operation)	1	-	
Division Office	XEN	Line Superintendent-I	-	1	
Office		Assistant Draughtsman	1	-	
		Assistant Manager (Operation)	1	-	
Sub	SDO	Line Superintendent-II	-	1	For HT & LT
Division		Lineman	-	1	For HT & LT
		ALM	-	1	For HT & LT

^{*} These posts were sanctioned by IESCO BOD in its meeting.





ANNEXURES





ANNEX - A

PERFORMA REGARDING MAPPING AND UPDATING OF HT 11KV FEEDER

– ഗ ത

	Conductor/Cable	- Added - Replaced - Line Shiffed - Dis mantled					
눞	1/F	- Added, - Augmented - Shifted - Dismantled					
	HT Poles	- Added, - Shifted - Dismantled					
	GRID STATION						
FEEDER							
	FEEDER						
	SR.	NO.					

Divisional GIS Supervisor:	or:					
Field Activity	No 🗆			Yes 🗅		
	Entered in EMS	Date:	Sign:	Assigned to Surveyor	Name:	Date:
Verified By XEN:	Name:	Date:	Sign:	Field Activity Completed	Date:	Sign:
				Verified by SDO Name:	Date:	Sign:
			_	Verified in EMS:	Date:	Sign:

Final Performa and Screen Short should be Email to the Circle Office and P&E Directorate on the same day of data entry in EMS.



ANNEX - B

PERFORMA REGARDING MAPPING AND UPDATING OF LT NETWORK OF 11KV FEEDER

	5	Meters	- Added - MCO - Shifted - ERO					
		LT Poles	- Added, - Shifted - Dismantled					
		TRANSFORMER						
		FEEDER						
Circle Division Sub Division								
1. Circ 2. Divis 3. Sub								

LT Conductor / Cable

Replaced
Line Shifted
Dismantled

- Added

Divisional GIS Supervisor:	upervisor:					
Field Activity	No 🗆			Yes		
	Entered in EMS	Date:	Sign:	Assigned to Surveyor	Name:	Date:
Verified By XEN: Name:	Name:	Date:	Sign:	Field Activity Completed	Date:	Sign:
				Verified by SDO Name:	Date:	Sign:
				Vorified in EMC.	0340	Cign:

Final Performa and Screen Short should be Email to the Circle Office and P&E Directorate on the same day of data entry in EMS.



ANNEXURE-C
Roles & their privileges

IESCO SURVEYOR

Module Name	Page Name	Add	Edit	Delete	View	Role
	HT Survey				✓	
	HT Survey Pole Data				✓	
	HT Survey View					
	HT Survey Edit					15000 0
HT Survey	HT Survey Equipment					IESCO Surveyor (Sub-Division)
	HT Survey Equipment Details				✓	(Gub Biviolott)
	HT Survey Equipment Edit					
	Shift Equipment				✓	
	HT Manual Section				✓	
	LT Survey				✓	
	LT Survey Pole Data				✓	
	LT Survey View					
	LT Survey Edit					
	LT Survey Equipment					IFCO Curvoyor
LT Survey	LT Survey Equipment Details					IESCO Surveyor (Sub-Division)
	LT Survey Consumer Edit					(0 0.0 2)
	LT Survey Consumer Details					
	LT Survey Consumer View					
	LT Survey Consumer Bends				✓	
	LT Manual Section				✓	



IESCO SUPERVISOR (DIVISIONAL)

Module Name	Page Name	Add	Edit	Delete	View	Role
	HT Survey				✓	
	HT Survey Pole Data	✓	✓	✓	✓	
	HT Survey View					
	HT Survey Edit		✓			150000
HT Survey	HT Survey Equipment		✓	✓		IESCO Supervisor (Division)
	HT Survey Equipment Details				✓	(211101011)
	HT Survey Equipment Edit		✓			
	Shift Equipment	✓	✓		✓	
	HT Manual Section	✓	✓		✓	
	LT Survey				✓	
	LT Survey Pole Data	✓	✓	✓	✓	
	LT Survey View					
	LT Survey Edit		✓			
	LT Survey Equipment					IECO Companian
LT Survey	LT Survey Equipment Details					IESCO Supervisor (Division)
	LT Survey Consumer Edit		✓			(=11.6.6.1)
	LT Survey Consumer Details					
	LT Survey Consumer View		✓			
	LT Survey Consumer Bends	✓	✓	✓	✓	
	LT Manual Section	✓	✓		✓	
	Feeder Management				✓	
	Manage HT Feeders		✓		✓	
	Generate Poles	✓			✓	
Feeder	Import Feeder Point Data	✓		✓	✓	IECO Cuparidaer
Management	Points Detail		✓	✓		IESCO Supervisor (Division)
	Manage Feeders View					(/
	Import Feeder Identifier Data				✓	
	Manage LT Feeders		✓		✓	
	Manage LT Feeders View				✓	
	Load Flow Analysis				✓	
Load Flow	Input	✓	✓	✓	✓	IESCO Supervisor
Analysis	Input Detail	✓			✓	(Division)
	Output				✓	



IESCO SUPERVISOR (CIRCLE)

Module Name	Page Name	Add	Edit	Delete	View	Role
	HT Survey				✓	
	HT Survey Pole Data	✓	✓	✓	✓	
	HT Survey View					
	HT Survey Edit		✓			
HT Survey	HT Survey Equipment		✓	✓		IESCO Supervisor (Circle)
	HT Survey Equipment Details				✓	
	HT Survey Equipment Edit		✓			
	Shift Equipment	✓	✓		✓	
	HT Manual Section	✓	✓		✓	
	LT Survey				✓	
	LT Survey Pole Data	✓	✓	✓	✓	
	LT Survey View					
	LT Survey Edit		✓			
LT Survey	LT Survey Equipment					IFCO Cupor door
	LT Survey Equipment Details					IESCO Supervisor (Circle)
	LT Survey Consumer Edit		✓			(0.1010)
	LT Survey Consumer Details					
	LT Survey Consumer View		✓			
	LT Survey Consumer Bends	✓	✓	✓	✓	
	LT Manual Section	✓	✓		✓	
	Feeder Management				✓	
	Manage HT Feeders		✓		✓	
	Generate Poles	✓			✓	
Feeder	Import Feeder Point Data	✓		✓	✓	 IESCO Supervisor
Management	Points Detail		✓	✓		(Circle)
3	Manage Feeders View					
	Import Feeder Identifier Data				✓	
	Manage LT Feeders		✓		✓	
	Manage LT Feeders View				✓	
	Load Flow Analysis				✓	
Load Flow	Input	✓	✓	✓	✓	IESCO Supervisor
Analysis	Input Detail	✓			✓	(Circle)
	Output				✓	



GIS CELL (P&E DIRECTORATE)

Module Name	Page Name	Add	Edit	Delete	View	Role
	User Administration				✓	
	User	✓	✓		✓	
	Add User	✓				
	Edit User		✓			
User Administration	Associate Location To User	✓		✓		P&E
	Designation	✓	✓	✓	✓	
	Organization	✓	✓	✓	✓	
	Role Rights	✓			✓	
	Reset Password	✓				
	HT Survey				✓	
	HT Survey Pole Data	✓	✓	✓	✓	
	HT Survey View					
	HT Survey Edit		✓			
HT Survey	HT Survey Equipment		✓	✓		P&E
	HT Survey Equipment Details				✓	
	HT Survey Equipment Edit		✓			
	Shift Equipment	✓	✓		✓	
	HT Manual Section	✓	✓		✓	
	LT Survey				✓	
	LT Survey Pole Data	✓	✓	✓	✓	
	LT Survey View					
	LT Survey Edit		✓			
	LT Survey Equipment					
LT Survey	LT Survey Equipment Details					P&E
	LT Survey Consumer Edit		✓			
	LT Survey Consumer Details					
	LT Survey Consumer View		✓			
	LT Survey Consumer Bends	✓	✓	✓	✓	
	LT Manual Section	✓	✓		✓	
	Reports				✓	
	Feeder Summary				✓	
	HT Report				✓	
	LT Consumer Detail				✓	
Reports	LT Consumer Count				✓	P&E
rtoporto	View Report				✓]
	HT Survey Summary				✓	
	NEPRA				✓]
	LT Survey Summary				✓]
	Pole To Pole Distance Report				✓	



Module Name	Page Name	Add	Edit	Delete	View	Role
	Feeder Management				✓	
	Manage HT Feeders		✓		✓	
	Generate Poles	✓			✓	
	Import Feeder Point Data	✓		✓	✓	
Feeder Management	Points Detail		✓	✓		P&E
	Manage Feeders View					
	Import Feeder Identifier Data				✓	
	Manage LT Feeders		✓		✓	
	Manage LT Feeders View				✓	
	Reference Data				✓	
	Ref Circle	✓	✓	✓	✓	
	Ref Division	✓	✓	✓	✓	
	Ref Sub Division	✓	✓	✓	✓	
	Ref Sub Station	✓	✓	✓	✓	
	Ref Feeder	✓	✓	✓	✓	
	Ref Phases	✓	✓	✓	✓	P&E
	Ref Pole Classes	✓	✓	✓	✓	
	Ref Cross Arm Types	✓	✓	✓	✓	
Reference Data	Ref Pole End Types	✓	✓	✓	✓	
Reference Data	Ref Conductors	✓	✓	✓	✓	
	Ref Equipment Statuses	✓	✓	✓	✓	
	Ref Pole Heights	✓	✓	✓	✓	
	Ref Pole Type	✓	✓	✓	✓	
	Ref Use Type	✓	✓	✓	✓	_
	Ref Manufacturers	✓	✓	✓	✓	
	Ref Mountings	✓	✓	✓	✓	
	Ref Tariff Codes	✓	✓	✓	✓	
	Ref Equipment Type	✓	✓	✓	✓	
	Substation Transformer	✓	✓	✓	✓	
	Load Flow Analysis				✓	_
Load Flow Analysis	Input	✓	✓	✓	✓	P&E
Load I low Allalysis	Input Detail	✓			✓	1 4 2
1	Output				✓	



ANNEXURE-D

Referred to in Para 2.1 & 2.2 of CP-Code-4 Disconnection and Reconnection of Permanent Disconnection Procedure CP Form-16 of 156



ISLAMABAD ELECTRIC SUPPLY COMPANY LIMITED DISCONNECTION ORDER (TO REMOVE EQUIPMENT)

No:	Issue Date
Name	
Address	

Billing Month:

Batch No.	Account Number	Tariff	Amount of Bill not Paid	Surcharge	Amount Due

Reconnection Fee will have to paid separately for Reconnection as per Standing Instructions in addition to above

Asstt: Mgr: (CS) / Asstt: Mgr: (O)

Action Taken By	Action Date	Material Return Note No.	Date					
TL Nos.								
Meter Nos.								
Readings								
Condition of Meter								
Remarks and Signature of Line Superintendent (D&R) It is certified that the equipment has been removed in GIS database from Pole ID NoDated								
Signature Line Superintendent / GIS Inspect	or							
Forwarding Address		Asstt: Mgr: (CS) / A	lsstt: Mgr: (0)					



(Referred to in para 2 of CP-Code - 07

CP-Farm-23 of 156



(REFERRED TO IN PARA 2 OF CP-CODE-07 DISCONNECTION

ISLAMABAD ELECTRIC SUPPLY COMPANY LIMITED

METER CHANGE ORDER

METER CHANGE (VOL-II, 4THEDITION) Name of Office I Sub-Division MCO No. Issue Date Batch No Batch No Consumer's Name Address Reason for Change To, Line Superintendent Please Change Meter (s) on premises of above consumer and report below. Signature of AMO Name Dated METER REMOYED REPORT	AND RECORMECTION SECTION			
Name of Office I Sub-Division MCO No. Issue Date	METER CHANGE (VOL-II,			
MCO No. Issue Date Batch No Consumer's Name Address Reason for Change To, Line Superintendent Please Change Meter (s) on premises of above consumer and report below. Signature of AMO Name Dated	-			
Issue Date	Name of Office / Sub-Division			
Batch No Batch No				
Consumer's Name			Issue Date	
Address	Reference No		Batch No	
Reason for Change To, Line Superintendent Please Change Meter (s) on premises of above consumer and report below. Signature of AMO Name Dated	Consumer's Name			
To, Line Superintendent Please Change Meter (s) on premises of above consumer and report below. Signature of AMO Name Dated METER REMOVED. REPORT	Address			
Line Superintendent Please Change Meter (s) on premises of above consumer and report below. Signature of AMO Name Dated METER REMOVED.				
Please Change Meter (s) on premises of above consumer and report below. Signature of AMO Name Dated METER REMOVED. REPORT	•			
Signature of AMO Name	•			
Name Dated METER REMOVED REPORT	Please Change Meter (s) on	premises of ab	ove consumer and report below.	
Dated			Signature of AMO	
METER REMOVED BEPORT			Name	
METER REMOVED BEPORT			Dated	
	METER REMOVED	REPORT		

PILICITATION			HEL OH I					
Meter ID	Set No.	Meter	Loc Code	Mnfg	Meter	Multiplyin	Meter	Final
1-leterib	Gerrag.	No.	Loc Code	Code	Code	g Factor	Range	Meter
KVH7KVARH7MDI								
KVH7KVARH7MDI								
KVH7KVARH7MDI								
KVH7KVARH7MDI								

METER INSTALLED Meter Multiplyin Meter Final Advance R.Comp Meter ID Set No. Range Reading Units KVH7KVARH7MDI KVH7KVARH7MDI KVH7KVARH7MDI KVH7KVARH7MDI

Store Requisition No. Item No. of CP-Form-78 (Register of Meters born on T&P)

Item No. of CP-Form-79 (Register of Meters returned from work to T&P Meter Subsidary Store or Meter testing room)_ Change by Signature_ __ Execution Date _

(Name & Designation) Meter Card / Cards has/have been duly completed by me and handed over to the consumer or his representative Mr.

Signature of Consumer_ _ Signature of Line Superintendent Date___ _Name___

It is certified that the equipment has been updated in GIS database vide ID No.

Signature (LS-II/GIS Inspector)

CHARGE

(In accordance with item 2 of the schedule of general charges , if the meter has been removed or had its position changed at the request of the consumer. The consumer shall be charged at the rate applicable at the time of change).





(CP-Form-18 of 154

ISLAMABAD ELECTRIC SUPPLY COMPANY LIMITED POWER WING

Copy 3 SUB-DIVISON COPY APPLICATION FOR ELECTRICITY RECONNECTION Date _____ Serial No _____ Name___ Name_____ Address _____ Account No. _____ Date____ ____ Sub-Division AMO __ Please reconnect the electricity supply at above premises which was disconnected on ______ vide ERO No. _____ dated __ as all outstanding accounts have now been paid. Signature and Stamp of Asstt: Manager (CS) Account Application Number Division Sub-Divison Feeder and Year Number Arrears Paid Reconnection Fee Paid _ Total Amount Signature of Commercial _ Superintendent Reconnection Order Signature and Stamp of Sub-Division Copy Asstt: Manager (CS) То Date Supervisor, Reconnection Section The reconnection of above supply is authorized Signature and Stamp of To be completed by Line Superintendent Asstt: Manager Date of Reconnection Meter Number Reading Condition of Meter Reconnection made by Signature of Line Supdt. It is certified that the equipment has been added in GIS database vide ID No. Signature

(LS-II/GIS Inspector)



Cp Form -08of156 Referred To In Para 9 2 Code -CP-02 New Connection & Change Of Name Etc. (Vol. II, 6th Edition)



Islamabad Electric Supply Company Limited Service Connection Order (UP TO 40 KW)

Nan	ne of Sub-Division SCO No.	Date
1.	Application No. Date	FATA/PATA/URBAN/RURA
2.	Account No Feeder	No Batch
3.	Name & Father /Husband Name	
4.	Address	
5.	Service Connection Cost D.N.No.	Date
6.	Security Deposit D.N.Do.	
7.	Date of Payment Of Service Connection Cost	
8.	Amount Of Security Deposit	
9.	F. Goyt/Autonomous and Local Bodies under Prov. Goyt.	
	Cantonment Board	
	prov. Goyt/Autonomous and Local Bodies under Prov. Goyt.	
	Local Bodies	
	Authorized By (Name)	
15.	Additized by (Name)	Designation
		STAMP
14.	Store Requisition No	Date
	Nature of Connection As Per Standard Classification	
	Code Booklet	
16	Seasonal/Non Seasonal	Sanctioned Load
	No. of Meter s No. Of A.C. S/Centrally Air (
	Meter I.D	COMMINGRED CODE
	Meter Number	
	Location Code	
	Meter Code	
	Manufacture Code	
	Multiplying Factor	
	Meter Range	
	Meter Reading	
	Date Of Connection	CP-78 Item No.
	Meter Rent Service	Tie Up/Non Tie Up
	Signature of Consumer In Token Of Installation of Connection.	
	Signature of Consumer In Token Of Receipt of Meter Reading Card.	
	Seal on the Meter	-
	Seal on the Box	-
32.	Security Slip/Prize Bond No.	
33.	Signatures	
	Connection Installed By:	Checked By SDO
	Signature	Signature
		(Sub Divisional Officer)
	<u>Updated in GIS By:</u> It is certified that the equipment has been added in GIS database vide ID N	io. Dated
	Signature	
	(LS-II/GIS Inspector)	



COMPLETION REPORT (A-90)

Name of HT Proposal	Work Order No. & Date	
Operation Circle	Operation Division	Operation S/Div
Construction Division	Construction S/Div	Date of Completion

			Quantity				
Sr. No.	MATERIAL	UNIT	As per	Issued	Actual	Variation From	
			W/O		Installed	W/O	Issued
1	2	3	4	5	6	7=4-6	8=5-6
NE	W WORK						
1	PC/SPUN POLES						
	31 FEET	NO.					
	36 FEET	NO.					
	40 FEET	NO.					
	45 FEET	NO.					
	55 FEET	NO.					
2	LATICE STEEL STRUCTURES						T
	31 FEET	NO.					
	36 FEET	NO.					
	40 FEET	NO.					
	45 FEET	NO.			1		
	55 FEET	NO.				L	
3	WOODEN/STEEL CROSS ARM	NO.			1	1	
	11 KV WOODEN	NO.			1		
4	11 KV STEEL INSULATORS	NO.				L	1
4		NO		1	1		1
	11 KV PIN TYPE 11 KV DISC TYPE	NO.			+		
	L.T. SPOOL TYPE						
5	PINS	NO.					
5	11 KV INSULATOR PINS	NO.				1	
6	CROSS ARM BRACES	NO.		L	1	1	
U	11 KV KNEE BRACE	NO.			Τ		
	11 KV STEP BRACE	NO.					
7	NEW HT LINE	110.			1		· ·
	GOPHER	KM.					
	RABBIT	KM.					
	DOG	KM.					
	LYNX	KM.					
	PANTHER	KM.					
	OSPREY	KM.					
8	RECONDUCTORING OF HT LINE WITH	Ŧ					
	GOPHER	KM.					
	RABBIT	KM.					
	DOG	KM.					
	LYNX	KM.					
	PANTHER	KM.					
	OSPREY	KM.					
9	AAC CONDUCTOR						
	GNAT	KM.					
	ANT	KM.			1		
	WASP	KM.				ļ	
10	ALUMINIUM TIE WIRE	М					
	STAY RODS COMPLETE SET WITH						
11	ANCHOR ASSEMBLY	NO					
12	STAY WIRE (10MM, 7/3,22)	NO. KG			+	-	
	EYE NUT	NO.			+	-	
13 14	EARTHING SETS COMPLETE	NO.			+	 	
15	DANGER PLATES	NO.			+	 	
16	BARBED WIRE	KG			+	 	



	T					
17	BOLT AND NUTS	1	1	1	1	1
	3/8 " X 2"	NO.				
	3/8 " X 6"	NO.				
	3/8 " X 14"	NO.				
	1/2 " X 2"	NO.				
	1/2 " X 6"	NO.				
	5/8 " X 1-1/2 "	NO.				
	5/8 X 2 "	NO.				
	5/8 X 8"	NO.				
	5/8 X 9 "	NO.				
	5/8 X 10"	NO.				
	5/8 X 6"	NO.				
	5/8 X 12"	NO.				
	5/8 X 14 "	NO.				
	5/8 X 18 "	NO.				
	5/8 X 16 "	NO.				
18	DOUBLE ARMING BOLTS	110.	I	I		
10	5/8 X 12"	NO.				
	5/8 X 14"	NO.				
	5/8 X 14"	NO.			 	
	5/8 X 20"	NO.				
	5/8 X 20 5/8 X 22"	NO.				
	5/8 X 22 5/8 X 16"	NO.			1	
19	WASHERS	NO.				
19	7/16 X 1 " (ROUND)			1	1	
	· · ·					
	9/16 X 1 " (ROUND)					
	9/16 X 1-1/4" (ROUND)					
20	11/16 " X 2-1/4 " 2-1/4 (SQUARE)					
20	PG CONNECTORS	370		1	1	
	T-116	NO.				
	T-117	NO.				
	T-150	NO.				
	S-157	NO.				
	T-155	NO.				
21	CLAMPS			Т	1	
	0.4 KV LOOP DEADEND FOR LT STR & PC	NO.				
	11 KV DEAD END	NO.				
	GROUNDING CONDUCTOR CLAMPS	NO.				
	SUSPENSION ANGLE CLAMPS	NO.			ļ	
22	D-SHACKLE + COTTER PINS	NO.				
23	ANCHOR SHACKLE	NO.				
24	RELOCATION OF EXISTING T/F (11/0.415F		1	1	1	
	200 KVA	NO.				
	100 KVA	NO.				
	50 KVA	NO.				
	25 KVA	NO.				
25	PLATFORMS FOR T/F	•		1	T	,
	DOUBLE POLE	NO.				
	SINGLE POLE	NO.				
26	DROPOUT CUTOUT (SET OF 3)					
	11 KV	NO.				
27	11 KV ANGLE IRON BRACKETS	NO.				
28	HT CAPACITOR (FIXED)					
	RELOCATION OF EXISTING CAP					
	NEW CAP					



29	FOUNDATION OF LATTICE STEEL STRUCTURE							
	31 FEET	NO.						
	36 FEET	NO.						
	40 FEET	NO.						
	45 FEET	NO.						
	55 FEET	NO.						
30	LIGHTENING ARRESTORES (SET OF 3)							
	11 KV	NO.		•				

Sr.			Mate	rial Quantity	
No.	Description	Unit	As per B.O.Q	As per MRN	Variations
1	2	3	4	5	6 = 4 - 5
В	MATERIAL DISMANTLED & RETUR	NED TO STORI	E		
1	Steel Structure 45'	EA			
2	Steel Structure 40'	EA			
	H.T STR 36'	EA			
4	H.T P.C.C Poles 40'	EA			
	H.T P.C.C Poles 36'	EA			
6	L.T STR 31'	EA			
7	L.T P.C Pole 31'	EA			
8	Danger Plate	EA			
9	Anti Climbing Device	EA			
10	X - Arms 11 kV Wood	EA			
11	X - Arms 11 kV Steel	EA			
12	Knee Braces	EA			
13	Step Braces	EA			
14	Pin Insulators	EA			
15	Disc Insulators	EA			
16	Spool Insulator	EA			
17	Insulator Pins	EA			
18	D-Strap	EA			
19	Dead End Clamp for Osp, Pan, Lynx	EA			
20	Dead End Clamp for Dog, Rab	EA			
21	Loop Dead End Clamp	EA			
22	Eye Nut	EA			
23	Double Arming Bolt	EA			
24	Anchor Shackles	EA			
25	P.G Connectors for Osp, Pan, Lynx	EA			
	P.G Connectors for Dog, Rab	EA			
	P.G Connector for Wasp	EA			
28	P.G Connector for Ant	EA			
29	Nut & Bolts 3 / 8 x 6"	EA			
30	Nut & Bolts 5 / 8 x 2"	EA			
31	Nut & Bolts 5 / 8 x 10"	EA			
32	Nut & Bolts 5 / 8 x 14"	EA			
33	Round Warshers	EA			
34	Square Warshers	EA			
35	Stay Assembly	EA			
36	STAY Wire	KG			
37	MS Clamps	EA			
38	Tie Wire	KG			
39	Earthing Unit	EA			
40	ACSR Osprey	MR			
41	ACSR Lynx	MR			
42	ACSR Dog	MR			
43	ACSR Rabbit	MR			



Sr.			Material Quantity				
No.	Description	Unit	As per B.O.Q	As per MRN	Variations		
1	2	3	4	5	6 = 4 - 5		
44	AAC Wasp	MR					
45	AAC Ant	MR					
46	S/C 500 MCM Cable	MR					
47	3/Core 4-AWG Cable	MR					
48	4/C 37/.083 Cable	MR					
49	4/C 19/.083 Cable	MR					
50	Drop Out Cut Out	Set					
51	Plateform Double Structure	EA					
50	Drop Out Cut Out	Set					
52	Plateform Double Structure	EA					

C	S.Rs Nos. & Date			
	a)	b)		c)
	d)	e)		f)
D	MRNs Nos. & Date			
	a)	b)		c)
	d)	e)		f)
E	Estimated Cost of the Propos	al Rs		
F	Actual Expenditure	Rs		
G	Attachments:			
	Copies of S.Rs		Copies of M.R.Ns	
	Handing/Taking Over Papers		A-90	
	As Built Drawing/Sketch		GIS Map	



E.B. Form C.S.-18

W.P.P., Lahore Job No. 85/2001



PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY ELECTRICITY DEPARTMENT

OFFICE	
	No. 005700

SUNDRY JOBS ORDER

To Line Superintendent,
•
Please execute the following work and on completion report below:
Description of work
Estimate No.
Name of work
Allocation
DateDate
Report.
Date started Date finished
Performed by
"Meter card/cards has/have been duly completed by me and kept with the meter/meters in the presence of consumer of his representative Mr
(Consumer's Signature)*
Line Superintenden / GIS Inspector Date
Charge.
Above charge entered in sundry charges and allowances register. (If charge in to be recovered from consumer).
By Date Date

If work is on account of consumer.