

**BANGLADESH RURAL ELECTRIFICATION BOARD**

**PBS INSTRUCTION: 100-50**

**PBS HOT LINE WORK OPERATIONS**

**BANGLADESH RURAL ELECTRIFICATION BOARD  
PBS INSTRUCTION 100-50**

Approval Date: 26/06/1990  
Revision Date : 19/20/2020

**SUBJECT: PBS HOT LINE WORK OPERATIONS**

**I. PURPOSE**

The purpose of this instruction is to specify the operating procedures and the requirements for safe and proper hot line work in terms of personnel and tools required for various jobs. **THIS POLICY INSTRUCTION SHOULD BE REFERRED TO FREQUENTLY AS A BASIS OF AGREEMENT BETWEEN ALL PARTIES AS TO THE FEASIBILITY OF PERFORMING VARIOUS JOBS ON PBS FACILITIES WITHOUT DE-ENERGIZING LINE.** PBS Instruction 100-49, "PBS Hot Line Work Administration" should be referred to for details concerning the administrative provisions that are required for the successful implementation of hot line work in a PBS system.

**II. DEFINITION OF HOT LINE WORK**

Briefly stated hot line work is "**WORK ON ELECTRICAL LINES WITHOUT DE-ENERGIZING**". For the purposes of this policy instruction this refers to any kind of maintenance, construction or operations on energized lines beyond simple energization or de-energization. This work may be performed on 33 KV, 11 KV, 0.4 KV and 0.23 KV lines that are owned and operated by a PBS.

**III. PROCEDURES FOR HOT LINE WORK**

Every job in the PBS that is done by hot line work methods must be approved by the

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(Md. Mozammel Haque)  
Consultant, TAPP, BREB

(Md. Dunaidul Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Haque)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Md. Ahsanul Haque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board)

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DGM(Tech-HQ)/ AGM (O&M) and consented to by the Lead Lineman for the crew that will perform the work.

Prior to any hot line work the job site must be visited and the job thoroughly planned by either the AGM (O&M) or the Junior Engineer/Assistant Junior Engineer and the Lead Lineman of the hot stick crew that will do the work. On the basis of the visit a determination will be made as to whether the job by hot line methods is feasible or not. If a positive decision is made a Service Order (**BREB Form 339**) will be written that describes the work to be performed. The Service Order will clearly state the portion of the work that is to be performed hot. This may be all or only some part of the total job. The signature of the Lead Lineman for the crew that will do the work must appear on the Service Order and this will constitute his consent to do the work as specified. The signature of the DGM(Tech-HQ)/ AGM(O&M) on the Service Order constitutes his/her approval of the hot line work. The DGM(Tech-HQ)/ AGM (O&M) must not sign the Service Order until the Lead Lineman has signed it.

Staking sheets and other documents that may be associated with the work should be processed in the normal manner. Daily work reports and other Work order documents will also be processed as usual.

#### IV. REQUIREMENTS FOR STORAGE OF HOT LINE TOOLS AND EQUIPMENT

It is very important that the tools and equipment purchased and intended for hot line work

be kept clean, dry and protected from scratches or other surface damage.

In order to guarantee that proper storage arrangements are made, each PBS shall provide

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(Md. Mozibur Rahman)  
Consultant, TAPP, BREB

(Md. Duhidul Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Haq)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Md. Ahsanul Haque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

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and maintain a dry shelter for storage of hot line tools and equipment. The shelter will be arranged by a PBS as soon as tools are acquired by that PBS. Specifications for the storage shelter will be provided by the System Operations Directorate.

## V. REQUIREMENTS FOR HOT LINE WORK AS PER THE ACCOMPANYING CHART

This chart specifies the exact tools and personnel required to carry out various jobs on energized facilities. It should be used by the O&M personnel to help to determine the feasibility of performing any given job by hot line methods. An effort has been made to include all likely jobs that may be done by hot line methods. However, if a case arises that is not included in the chart then the job closest to it in the list should be used for a reference.

Virtually all work required in a PBS can be performed safely by hot line crews **IF THE PROPER TOOLS AND TRAINED PERSONNEL ARE AVAILABLE.** If the required tools and personnel are not available when and where work must be performed, that work must be done by the traditional "de-energize and temporary ground" method. If these simple principles are adhered to hot line work can be carried out safely. If these principles are not adhered to, a dangerous situation may arise and any personnel making decisions contrary to these principles will be held responsible for that situation.

The left-most columns in the chart contain a list of types of personnel and a list of tools by BREB Item number and description. Each remaining column of each page contains information related to the job that is specified by the number at the head of the column. The names and numbers of each job for a page are given at the top of that page. Below each job number one can locate the minimal numbers of personnel of each type and the

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(Md. Mozibur Rahman)  
Consultant TAPP BREB

Consultant, TAPP, BREB

(Md. Duhidul Islam)  
Consultant TAPP BREB

(Md. Mozammel Haq)  
Consultant TAPP BREB

(Md. Abdul Khaleque)  
Consultant TAPP BREB

(Md. Anwarul Haque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

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minimal quantities of tools that are required to perform the job with hot line methods. Tool numbers from TL-415 to 477 are special hot line tools that are not commonly available in the PBS systems. Other numbers are for normal lineman tools that all PBS systems should have. It is assumed that all tools to be used in hot line work are in good, safe, working condition. **TOOLS THAT ARE BROKEN OR WORN OUT MUST NEVER BE USED FOR HOT LINE WORK.** The list does not include climbing tools or other personal tools or ordinary tools that may be needed.

Note that only the minimum requirements of tools and personnel are listed in the chart. An actual job may require more but never less resources than the specifications in the chart. Actual jobs may involve several of the jobs listed here. Special circumstances may also call for special resources.

Under the transformer jobs (**Jobs 39-53**) only Transformer Hot Stick Linemen are specified. Of course, fully trained Hot Stick Linemen can do these jobs also. Likewise "Others?" have been designated along with the minimum three Transformer Hot Stick Linemen for these jobs. The "Others?" could be day laborers or regular linemen or Hot Stick Linemen depending on the exact nature of the work and the availability of personnel.

Wherever a question mark ("?") appears it implies a choice and the discretion of the involved personnel will be required. For example, for many advanced jobs the hot line tool trailer may be taken to the site when road conditions and transportation means are available. It is almost always possible, however, to carry the required hot line tools in bags to the work site. This is true even for major jobs like pole changes. For this reason a question mark is given next to TL-441 "Hot Stick Trailer" for many jobs.

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(Md. Mozibur Rahman)  
Consultant, TAPP, BREB

(Md. Duhidul Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Huq)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Md. Ahsanul Haque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB

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**Type of Job with Job Number to be Performed**

Description of Job	Job Number
Conductor Splice- A1, Near pole	1
Conductor Splice- Mid-Span	2
Cross Arm Change- 1 phase Dead end	3
Cross Arm Change- C1 Lever lift	4
Cross Arm Change- C1 Side method	5
Cross Arm Change- C1 Straight lift	6
Cross Arm Change- C2	7
Cross Arm Change- Dead end, Rope block method	8
Insulator Change- A1 Side method	9
Insulator Change- A1 Straight lift, Isolate neutral	10
Insulator Change- A2 Cever Neutral	11
Insulator Change- A2 Straight Lift	12
Insulator Change- A3	13
Insulator Change- A3, Rope Block Method	14
Insulator Change- A4, TL-469 Method	15
Insulator Change- A4, TL-471 Method	16
Insulator Change- 1-Phase Deadend, TL-471 Method	17
Insulator Change- 1-Phase Deadend, Rope Block Method	18
Insulator Change- C1, Middle Phase	19
Insulator Change- C1, Outside Phase	20
Insulator Change- C2	21
Insulator Change- C3	22
Insulator Change- C4	23
Insulator Change- 3-Phase, Deadend	24
Insulator Change- 3-Phase, Deadend, Rope Block Method	25
Insulator Change- 3-Phase, Steel Pole Tangent	26
Pole Change- A1	27
Pole Change- A2	28
Pole Change- A3	29
Pole Change- A4	30

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(Md. Mozibur Rahman)  
Consultant, TAPP, BREB

(Md. Durdul Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Haq)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Md. Ahsanul Haque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollah)  
Asst. Secy. (Board), BREB.

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Pole Change- A5	31
Pole Change- C1	32
Pole Change- C1, Side Method	33
Pole Change- C1, Straight Lift	34
Pole Change- C2	35
Pole Change- C3	36
Pole Change- C4	37
Pole Change- C7	38
Transformer Change- 1-Phase Transformer on A1, Isolate Neutral	39
Transformer Change- 1-Phase Transformer on A1, Cover Neutral	40
Transformer Change- 1-Phase Transformer on 1-Phase Deadend	41
Transformer Change- 1-Phase Transformer on C1	42
Transformer Change- 1-Phase Transformer on 3-Phase Deadend	43
Transformer Change- 3-Phase Transformer on C1, Isolate Neutral	44
Transformer Change- 3-Phase Transformer on Deadend	45
Transformer Install- 1-Phase Transformer on A1, Isolate Neutral	46
Transformer Install- 1-Phase Transformer on A1, Cover Neutral	47
Transformer Install- 1-Phase Transformer on 1-Phase Deadend, Lower Coverer Neutral	48
Transformer Install- 1-Phase Transformer on C1, Isolate Neutral	49
Transformer Install- 1-Phase Transformer on 3-Phase Deadend	50
Transformer Install- 3-Phase Transformer on C1	51
Transformer Install- 3-Phase Transformer on C1, Isolate Neutral	52
Transformer Install- 3-Phase Transformer on Deadend	53
Insulator Change- on A1 Transformer Pole	54
Insulator Change- on C7 Transformer Pole (3-Phase)	55
Insulator Change- on C1 Transformer Pole (3-Phase)	56
Single Phase OCR/ACR Change	57
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Testing Hot Stick	59
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(Md. Mozibur Rahman)  
Consultant, TAPP, BREB

(Md. Ahsanul Haque,  
Consultant, TAPP, BREB

(Md. Duhidul Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Haq)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

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Job Wise Required Manpower and Tool		List of Tools Required according to Job Number to be Performed									
		1	2	3	4	5	6	7	8	9	10
Required Hot Stick Lineman	No.	5	5	5	5	5	5	5	5	5	5
Required Transformer Hit Stick Lineman	No.										
Required Other Lineman	No.										
Required Other Personnel	No.										
Temporary Anchor	No.	1	1		1	1	1	3		1	
<b>Required Tools</b>											
Item No.	Description	Unit									
ME-85	Ladder, 24'	No.									
TL-107	Rubber Gloves with Protector	No.	3	3	3	2	2	2		3	3
TL-215	Saw, Tree Trimming	No.									
TL-311	Hoist, Roller Chain 1½ Ton	No.									
TL-314	Cutter, Bolt	No.									
TL-315	Grip, Guy	No.									
TL-319	Grounds, Single Phase	No.		1							
TL-327	Pulling Eye, Anchor Rod	No.									
TL-343	Hot Stick Compression Tool (optional)	No.			1					1	
TL-406	Shotgun Hot Stick (HS)	No.	1	1	1	1	1	1		1	1
TL-415	Insulated Mechanical Jumper	No.	1								
TL-416	Clamp, Wire Tong Block	No.						1	1		
TL-417	Bracket, Rope Snubbing	No.				1	1	1	1		1
TL-418	Lever Lift, Wire Tong Support	No.					2				
TL-419	Arm, Dual Auxiliary	No.					1	1	1		
TL-420	Arm, Auxiliary Attachment	No.					1	1	1		
TL-421	Strain Link Hot Stick	No.				1	1	1	3		1
TL-422	Spiral Link Hot Stick	No.									1
TL-423	Roller Link Hot Stick	No.	1								
TL-424	Thermo-Tector	No.									
TL-425	Insulated Cover, Conductor	No.	2						6		
TL-426	Insulated Cover, Insulator	No.	1								
TL-427	Insulated Cover, Deadend	No.									
TL-428	Insulated Cover, Pole, 24" Long	No.									
TL-429	Insulated Cover, Pole, 48" Long	No.									
TL-430	Insulated Cover, Pole, 72" Long	No.									
TL-431	Insulated Cover, Crossarm	No.				1	1	1	1		1
TL-432	Epoxiglass Hot Stick	No.									
TL-433	Hot Stick Tester	No.									
TL-434	Epoxy-glass Hot Stick Bond Patch Kit	No.									

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(Md. Mozibur Rahman)  
Consultant, TAPP, BREB

(Md. Dujdul Islam)  
Consultant, TAPP, BREB

(Md. Mizanur Rahman)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Md. Ahsanul Haque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

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TL-435	Tool Lubricant	No.									
TL-436	Dry Film Tool Lubricant	No.									
TL-437	Hot Stick Tool Hanger	No.	2	2		3	3	3	3	4	4
TL-438	Blocks, Two Sheave, 120' Rope	No.	1	1		1	1	1	1	1	1
TL-439	Hot Rodder Tool	No.									
TL-440	Hot Stick Tool Rack	No.	2	2		2	2	2	2	2	2
TL-441	Hot Stick Trailer	No.	1	1	1	1	1	1	1	1	1
TL-442	Rotary Prong Tie Hot Stick	No.	1	1		1	1	2	1	2	2
TL-443	Rotary Blade Tie Hot Stick	No.	1	1		1	1	2	1	2	2
TL-444	Universal Pole Hot Stick	No.	1	1							
TL-445	Lever Type Wire Cutter Hot Stick	No.	1	1		1	1	1	1		
TL-446	Insulated Handles (Wire Cutter)	No.				1	1	1		1	1
TL-447	All Angle Pliers	No.	1	1							
TL-448	Epoxy-glass Work Platform	No.									
TL-448.1	Epoxy-glass Work Platform Rail	No.	1								
TL-449	Cotter Key Installer, HS Attachment	No.									
TL-450	Hacksaw, Hot Stick Attachment	No.									
TL-451	Wire Brush, Hot Stick Attachment	No.	1	1							
TL-452	Blade Tie Head, Hot Stick Attachment	No.									
TL-453	Flexible Head Wrench, HS Attachment	No.									
TL-454	Rotary Prong Head, HS Attachment	No.									
TL-455	Wire Tong Hot Stick, 1½"×8'	No.		1		2	1		1	1	
TL-456	Wire Tong Hot Stick, 1½"×10'	No.					1				
TL-457	Wire Tong Hot Stick, 2"×10'	No.		1			1			1	1
TL-458	Wire Tong Hot Stick, 2"×12'	No.				1	1		1		
TL-459	Wire Tong Saddle Bracket, 1½" (Short)	No.		1		2	1		1	1	
TL-460	Wire Tong Saddle Bracket, 2" (Short)	No.									
TL-461	Wire Tong Saddle Bracket, 1½" (W/Ext.)	No.		1		2	1	2			
TL-462	Wire Tong Saddle Bracket, 2" (W/Ext.)	No.					1		1	1	2
TL-463	Wire Tong Saddle Clevis Bracket	No.									
TL-464	Wire Tong Saddle Pole Clevis Bracket	No.									
TL-465	Wire Tong Band Bracket, 1½"	No.				2				1	
TL-466	Wire Tong Band Bracket, 2"	No.							1		
TL-467	Hot Stick Tool Bag, (Roll Up Type)	No.				1	1	1	1	1	1
TL-468	All Angle Cog Wrench Hot Stick	No.									
TL-469	Distribution Strain Carrier 1¼"	No.									
TL-470	Hotline Conductor Grip( #6 – 4/0 ACSR)	No.									
TL-471	Rural Strain Carrier	No.									
TL-472	Cum-A-Long Hook	No.									
TL-473	Lift Eye	No.									
TL-474	Crossarm Hook	No.									
TL-475	Semi-Corner Fitting	No.									
TL-476	Gaff Protector	Pair	5	5	5	5	5	5	5	5	5
TL-477	Gaff Sharpening Kit	No.	1	1	1	1	1	1	1	1	1
TL-501	Digger, Long Handle, 8'	No.									
TL-502	Shovel, Long Handle	No.									

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(Md. Mozibur Rahman)  
Consultant, TAPP, BREB

(Md. Duhidul Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Haq)  
Consultant, TAPP, BREB

(Md. Asadur Khaleque)  
Consultant, TAPP, BREB

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(Md. Ahsanul Haque)  
Consultant TAPP, BREB

(Debasish Chakraborty)  
TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

TL-503	Spoon, Long Handle, 8'	No.																		
TL-506	Tamping Bar	No.																		
TL-507	Pole, Pick	No.																		
TL-508	Hook, Cant	No.																		
TL-604	Brace	No.																		
TL-604.5	Wood Bit	No.																		
TL-608	Nylon Sling	No.																		
TL-609	Rope 50'	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TL-611	Handline	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TL-611	Snatch Block	No.																		
TL-613	Transformer Gin	No.																		

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Job Wise Required Manpower and Tool			List of Tools Required according to Job Number to be Performed										
			11	12	13	14	15	16	17	18	19	20	
Required Hot Stick Lineman	No.		5	5	5	5	5	5	5	5	5	5	
Required Transformer Hit Stick Lineman	No.												
Required Other Lineman	No.												
Required Other Personnel	No.												
Temporary Anchor	No.					2	1				1	1	1
Required Tools													
Item No.	Description	Unit											
ME-85	Ladder, 24'	No.											
TL-107	Rubber Gloves with Protector	No.	3			3	3	3	3	3	2	2	
TL-215	Saw, Tree Trimming	No.											
TL-311	Hoist, Roller Chain 1½ Ton	No.											
TL-314	Cutter, Bolt	No.											
TL-315	Grip, Guy	No.											
TL-319	Grounds, Single Phase	No.											
TL-327	Pulling Eye, Anchor Rod	No.											
TL-343	Hot Stick Compression Tool (optional)	No.			1					1			
TL-406	Shotgun Hot Stick (HS)	No.	1			1	1	1	1	1	1	1	
TL-415	Insulated Mechanical Jumper	No.											
TL-416	Clamp, Wire Tong Block	No.										1	
TL-417	Bracket, Rope Snubbing	No.	1	1		1	1	1			1	1	
TL-418	Lever Lift, Wire Tong Support	No.										1	
TL-419	Arm, Dual Auxiliary	No.											
TL-420	Arm, Auxiliary Attachment	No.								1			
TL-421	Strain Link Hot Stick	No.	1	1		2					1		
TL-422	Spiral Link Hot Stick	No.				2				1		1	

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(Md. Mozibur Rahman)  
Consultant TAPP BREB

(Md. Duhrul Islam)  
Consultant TAPP BREB

(Md. Mozammel Haq)  
Consultant TAPP BREB

(Md. Abdul Khaleque)  
Consultant TAPP BREB

(Md. Ahsanul Haque)  
Consultant TAPP BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

৩২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০



TL-468	All Angle Cog Wrench Hot Stick	No.																				
TL-469	Distribution Strain Carrier 1¼"	No.						1														
TL-470	Hotline Conductor Grip( #6 – 4/0 ACSR)	No.				2	1	1	1	1												
TL-471	Rural Strain Carrier	No.							1	1												
TL-472	Cum-A-Long Hook	No.						1	1	1												
TL-473	Lift Eye	No.						1	1	1												
TL-474	Crossarm Hook	No.									1											
TL-475	Semi-Corner Fitting	No.																				
TL-476	Gaff Protector	Pair	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
TL-477	Gaff Sharpening Kit	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TL-501	Digger, Long Handle, 8'	No.																				
TL-502	Shovel, Long Handle	No.																				
TL-503	Spoon, Long Handle, 8'	No.																				
TL-506	Tamping Bar	No.																				
TL-507	Pole, Pick	No.																				
TL-508	Hook, Cant	No.																				
TL-604	Brace	No.																				
TL-604.5	Wood Bit	No.																				
TL-608	Nylon Sling	No.																				
TL-609	Rope 50'	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TL-611	Handline	No.	1	1	1															1	1	1
TL-611	Snatch Block	No.																				
TL-613	Transformer Gin	No.																				

### 3<sup>rd</sup> Slot

Job Wise Required Manpower and Tool			List of Tools Required according to Job Number to be Performed										
			21	22	23	24	25	26	27	28	29	30	
Required Hot Stick Lineman	No.		5	5	5	5	5	5	5	5	5	5	5
Required Transformer Hot Stick Lineman	No.												
Required Other Lineman	No.									3			
Required Other Personnel	No.												
Temporary Anchor	No.		2					1	1	1	1	1	1
Required Tools													
Item No.	Description	Unit											
ME-85	Ladder, 24'	No.							1				
TL-107	Rubber Gloves with Protector	No.	2	2	2	2	2	3	5	3	3	3	3
TL-215	Saw, Tree Trimming	No.										1	1
TL-311	Hoist, Roller Chain 1½ Ton	No.									1	1	2
TL-314	Cutter, Bolt	No.									1	1	1
TL-315	Grip, Guy	No.									1	1	2

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(Md. Mozibur Rahman)  
Consultant, TAPP, BREB

(Md. Durridul Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Hossain)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Md. Ahsanul Haque,  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

৬২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০

৬২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০

TL-319	Grounds, Single Phase	No.											
TL-327	Pulling Eye, Anchor Rod	No.								1	1	2	
TL-343	Hot Stick Compression Tool (optional)	No.			1					1			
TL-406	Shotgun Hot Stick (HS)	No.	1	1	1	1	1	1	1	1	1	1	1
TL-415	Insulated Mechanical Jumper	No.											
TL-416	Clamp, Wire Tong Block	No.											
TL-417	Bracket, Rope Snubbing	No.	1				1	1					
TL-418	Lever Lift, Wire Tong Support	No.						1					
TL-419	Arm, Dual Auxiliary	No.											
TL-420	Arm, Auxiliary Attachment	No.											
TL-421	Strain Link Hot Stick	No.	2				1	1	1	1			
TL-422	Spiral Link Hot Stick	No.					1						
TL-423	Roller Link Hot Stick	No.	1						1	1	2	2	
TL-424	Thermo-Tector	No.											
TL-425	Insulated Cover, Conductor	No.		6	6	3	3	4					
TL-426	Insulated Cover, Insulator	No.			5	2		2					
TL-427	Insulated Cover, Deadend	No.					2					4	
TL-428	Insulated Cover, Pole, 24" Long	No.							1				
TL-429	Insulated Cover, Pole, 48" Long	No.							1				
TL-430	Insulated Cover, Pole, 72" Long	No.							1				
TL-431	Insulated Cover, Crossarm	No.	1					1	1	1			
TL-432	Epoxy-glass Hot Stick	No.											
TL-433	Hot Stick Tester	No.											
TL-434	Epoxy-glass Hot Stick Bond Patch Kit	No.											
TL-435	Tool Lubricant	No.											
TL-436	Dry Film Tool Lubricant	No.											
TL-437	Hot Stick Tool Hanger	No.	3	3	3	3	3	2	3	2	2	2	2
TL-438	Blocks, Two Sheave, 120' Rope	No.	1				1	1	1	1	2	2	
TL-439	Hot Rodder Tool	No.											
TL-440	Hot Stick Tool Rack	No.	2	2	2	2	2	2	2	2	2	2	2
TL-441	Hot Stick Trailer	No.	1	1	1	1	1	1	1	1	1	1	1
TL-442	Rotary Prong Tie Hot Stick	No.	1	1	2	1	1	1	1	1	1	2	
TL-443	Rotary Blade Tie Hot Stick	No.	1					1	1	1			
TL-444	Universal Pole Hot Stick	No.		2	2	2	2				2	2	
TL-445	Lever Type Wire Cutter Hot Stick	No.	1					1					
TL-446	Insulated Handles (Wire Cutter)	No.							1				
TL-447	All Angle Pliers	No.									1	1	
TL-448	Epoxy-glass Work Platform	No.				1	1						
TL-448.1	Epoxy-glass Work Platform Rail	No.				1	1						
TL-449	Cotter Key Installer, HS Attachment	No.		1	1	1	1				1	1	
TL-450	Hacksaw, Hot Stick Attachment	No.											
TL-451	Wire Brush, Hot Stick Attachment	No.											
TL-452	Blade Tie Head, Hot Stick Attachment	No.											
TL-453	Flexible Head Wrench, HS Attachment	No.											
TL-454	Rotary Prong Head, HS Attachment	No.											
TL-455	Wire Tong Hot Stick, 1½"×8'	No.	1					1					

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(Md. Mozibur Rahman)  
Consultant TAPP BREB

(Md. Duhidul Islam)  
Consultant TAPP BREB

(Md. Mozammel Haque)  
Consultant TAPP BREB

(Md. Abdul Khaleque)  
Consultant TAPP BREB

(Md. Ahsanul Haque) (Debasis Chakraborty)  
Consultant TAPP BREB PD, TAPP, BREB.

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

১৯৯০ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৯৯০

১৯৯১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৯৯১



Temporary Anchor	No.			1	1	1				3		
Required Tools												
Item No.	Description	Unit										
ME-85	Ladder, 24'	No.										
TL-107	Rubber Gloves with Protector	No.	2	3	5	5	5	4	4	4	3	3
TL-215	Saw, Tree Trimming	No.						1	1			
TL-311	Hoist, Roller Chain 1½ Ton	No.	1				1	2	2	2		
TL-314	Cutter, Bolt	No.	1				1	1	1	1		
TL-315	Grip, Guy	No.	1				1	2	2	1		
TL-319	Grounds, Single Phase	No.						2	2	1		
TL-327	Pulling Eye, Anchor Rod	No.	1				1	1	1	1		
TL-343	Hot Stick Compression Tool (optional)	No.	1		1					1		
TL-406	Shotgun Hot Stick (HS)	No.	1	1	1	1	1	1	1	1	1	1
TL-415	Insulated Mechanical Jumper	No.										
TL-416	Clamp, Wire Tong Block	No.				1	1					
TL-417	Bracket, Rope Snubbing	No.	1			1	1	1	1	1		
TL-418	Lever Lift, Wire Tong Support	No.		2								
TL-419	Arm, Dual Auxiliary	No.			1	1	1					
TL-420	Arm, Auxiliary Attachment	No.			1	1	1					
TL-421	Strain Link Hot Stick	No.			1	1	3				1	
TL-422	Spiral Link Hot Stick	No.	2				1	2	2	2	1	
TL-423	Roller Link Hot Stick	No.		1			3			3		
TL-424	Thermo-Tector	No.										
TL-425	Insulated Cover, Conductor	No.	1	4	3	3	6	6	6	6	2	4
TL-426	Insulated Cover, Insulator	No.									1	1
TL-427	Insulated Cover, Deadend	No.	1					3	3	3		
TL-428	Insulated Cover, Pole, 24" Long	No.	1	1	1	1	1		1			
TL-429	Insulated Cover, Pole, 48" Long	No.	1	1	1	1	1	1		1		
TL-430	Insulated Cover, Pole, 72" Long	No.		1	1	1	1		1			
TL-431	Insulated Cover, Crossarm	No.				1	1					
TL-432	Epoxy-glass Hot Stick	No.										
TL-433	Hot Stick Tester	No.										
TL-434	Epoxy-glass Hot Stick Bond Patch Kit	No.										
TL-435	Tool Lubricant	No.										
TL-436	Dry Film Tool Lubricant	No.										
TL-437	Hot Stick Tool Hanger	No.	2	2	3	3	3	2	2	2	2	2
TL-438	Blocks, Two Sheave, 120' Rope	No.	2	1	1	1	1	2	2	2	1	1
TL-439	Hot Rodder Tool	No.										
TL-440	Hot Stick Tool Rack	No.	2	2	2	2	2	2	2	2	2	2
TL-441	Hot Stick Trailer	No.	1	1	1	1	1	1	1	1	1	1
TL-442	Rotary Prong Tie Hot Stick	No.	1	2	1	1	2	2	1	2	1	1
TL-443	Rotary Blade Tie Hot Stick	No.		2	1	1	2					
TL-444	Universal Pole Hot Stick	No.	2					2	2	2	1	1

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(Md. Ahsanul Haque)  
Consultant, TAPP, BREB

(Md. Duhidul Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Haq)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB.

৬২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০





TL-433	Hot Stick Tester	No.												
TL-434	Epoxy-glass Hot Stick Bond Patch Kit	No.												
TL-435	Tool Lubricant	No.												
TL-436	Dry Film Tool Lubricant	No.												
TL-437	Hot Stick Tool Hanger	No.	2	2	2	2	2	2	2	2	2	2	2	2
TL-438	Blocks, Two Sheave, 120' Rope	No.	1	1	1	1	1	1	1	1	1	1	1	1
TL-439	Hot Rodder Tool	No.	1	1	1	1	1				1	1		
TL-440	Hot Stick Tool Rack	No.	2	2	2	2	2	2	2	2	2	2	2	2
TL-441	Hot Stick Trailer	No.	1	1	1	1	1	1	1	1	1	1	1	1
TL-442	Rotary Prong Tie Hot Stick	No.	1	1	1	1	1	1	1	1	1	1	1	1
TL-443	Rotary Blade Tie Hot Stick	No.												
TL-444	Universal Pole Hot Stick	No.												
TL-445	Lever Type Wire Cutter Hot Stick	No.	1	1	1	1								
TL-446	Insulated Handles (Wire Cutter)	No.												
TL-447	All Angle Pliers	No.												
TL-448	Epoxy-glass Work Platform	No.												
TL-448.1	Epoxy-glass Work Platform Rail	No.												
TL-449	Cotter Key Installer, HS Attachment	No.												
TL-450	Hacksaw, Hot Stick Attachment	No.	1	1	1	1	1				1	1		
TL-451	Wire Brush, Hot Stick Attachment	No.												
TL-452	Blade Tie Head, Hot Stick Attachment	No.												
TL-453	Flexible Head Wrench, HS Attachment	No.												
TL-454	Rotary Prong Head, HS Attachment	No.												
TL-455	Wire Tong Hot Stick, 1½"×8'	No.												
TL-456	Wire Tong Hot Stick, 1½"×10'	No.												
TL-457	Wire Tong Hot Stick, 2"×10'	No.												
TL-458	Wire Tong Hot Stick, 2"×12'	No.												
TL-459	Wire Tong Saddle Bracket, 1½" (Short)	No.												
TL-460	Wire Tong Saddle Bracket, 2" (Short)	No.												
TL-461	Wire Tong Saddle Bracket, 1½" (W/Ext.)	No.												
TL-462	Wire Tong Saddle Bracket, 2" (W/Ext.)	No.												
TL-463	Wire Tong Saddle Clevis Bracket	No.												
TL-464	Wire Tong Saddle Pole Clevis Bracket	No.												
TL-465	Wire Tong Band Bracket, 1½"	No.												
TL-466	Wire Tong Band Bracket, 2"	No.												
TL-467	Hot Stick Tool Bag, (Roll Up Type)	No.	1	1	1	1	1	1	1	1	1	1	1	1
TL-468	All Angle Cog Wrench Hot Stick	No.												
TL-469	Distribution Strain Carrier 1¼"	No.												
TL-470	Hotline Conductor Grip( #6 – 4/0 ACSR)	No.											1	
TL-471	Rural Strain Carrier	No.												
TL-472	Cum-A-Long Hook	No.												
TL-473	Lift Eye	No.												
TL-474	Crossarm Hook	No.												
TL-475	Semi-Corner Fitting	No.												
TL-476	Gaff Protector	Pair	5	5	5	5	5	5	5	5	5	5	5	5
TL-477	Gaff Sharpening Kit	No.	1	1	1	1	1	1	1	1	1	1	1	1

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(Md. Mozibur Rahman)  
Consultant, TAPP, BREB

(Md. Dundur Islam)  
Consultant, TAPP, BREB

(Md. Mozammel Haq)  
Consultant, TAPP, BREB

(Md. Abdul Khaleque)  
Consultant, TAPP, BREB

(Md. Ahsanul Haque)  
Consultant, TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

(Kamrul Ahsan Molla)  
Asst. Secy

৬২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০





TL-466	Wire Tong Band Bracket, 2"	No.																	
TL-467	Hot Stick Tool Bag, (Roll Up Type)	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TL-468	All Angle Cog Wrench Hot Stick	No.																	
TL-469	Distribution Strain Carrier 1 1/4"	No.																	
TL-470	Hotline Conductor Grip( #6 – 4/0 ACSR)	No.			1					1									
TL-471	Rural Strain Carrier	No.																	
TL-472	Cum-A-Long Hook	No.																	
TL-473	Lift Eye	No.																	
TL-474	Crossarm Hook	No.																	
TL-475	Semi-Corner Fitting	No.																	
TL-476	Gaff Protector	Pair	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2
TL-477	Gaff Sharpening Kit	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TL-501	Digger, Long Handle, 8'	No.																	
TL-502	Shovel, Long Handle	No.																	
TL-503	Spoon, Long Handle, 8'	No.																	
TL-506	Tamping Bar	No.																	
TL-507	Pole, Pick	No.																	
TL-508	Hook, Cant	No.																	
TL-604	Brace	No.	1	1	1														
TL-604.5	Wood Bit	No.	1	1	1														
TL-608	Nylon Sling	No.	1	1	1	1				1	1	1							
TL-609	Rope 50'	No.	2	2	1					1									
TL-611	Handline	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TL-611	Snatch Block	No.	1	1	1														
TL-613	Transformer Gin	No.	1	1	1														

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(Md. Mozibur Rahman)  
Consultant TAPP, BREB

(Md. Duhidul Islam)  
Consultant TAPP, BREB

(Md. Mozammel Haq)  
Consultant TAPP, BREB

(Md. Abdul Khaleque)  
Consultant TAPP, BREB

(Md. Ahsanul Haque)  
Consultant TAPP, BREB

(Debasish Chakraborty)  
PD, TAPP, BREB

৬২১ তম বোর্ড সভায় অনুমোদিত সিদ্ধান্ত নং ১৭৭০০

(Kamrul Ahsan Mollik)  
Asst. Secy. (Board), BREB