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SAFE WORK PROCEDURE AND JOB OBSERVATION

ACTIVITY

Compiled by: Attach the attendance register	Reviewed by:	Approved by:
Title Relevant Supervisors Signature	Title: CR8.1 Construction Manager Signature	Title: Programme Manager Signature
<u>Date</u>	<u>Date</u>	<u>Date</u>

Reviewed by:	Reviewed by:	Acknowledged by:
Title LES	Title OHS Senior Advisor	<u>Title</u> Project Manager
Signature	Signature	Signature
Date	Date	<u>Date</u>

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					SAF	E WORK P	ROCEDURE	– CL/	A MDIN	IG IN OF CO	NDLICTOR	S				
DATE	06 Janua	ary 2016		TOWI	ER NUN		ALL	CL	-11VII III	10 111 01 00	PROJEC		Medu	ıpi-Borutho		
Tra	ining & Certi	fication	√		Critical I	nspection	S	1		Hazards				Risks		√
	ned as Climber?		X			spected & dro		Х		Work at Heig	ght	Х	Nip Point /Pinching			Х
Trair aid?	ned in perform re	escue & first	Х	_		ected & regis		Х		Environment Bees, Insect	t Snakes, Tick s	xs, X	W	ork on unstable Stru	ctures	
	observation don ussed the SWP		Х		ifting mad	chine & Tackl	e Register	Х	SS	Lifting Equip	ment's	Х		clement Weather (W eather, Rain, Terrain		Х
	icals valid? Fit fo		Х	nd Ec	/ehicle & checks?	Operators co	mpleted	Х	Process	Ergonomics/ position	/Improper	Х	Pro Er	notional state of per	sonnel	Х
Tear	m Breathalyzed?)	Х	Tools and	Climbers o	hecked Harn	ess?	Х		Mechanical		Х	Im	proper position for t	he task	Х
Che	cked all Certifica	ites?	Х	Ď [Defective I	Equipment re	moved?	Х		Mobile Plant	/Equipment	Х	In	adequate training		Х
Crar	ne Operator Lice	nse valid? ***	Х	E	quipmen	t safe for use	?	Х		Human Beha Emotional F		Х	Co	ompetency of all invo	olved.	Х
				<u> </u>	INDICA	TE PPE RE	QUIRED TO	BE W	ORN I	BY EMPLOY	EE /OPERA	TOR.				-
PPE							•			8		4	n	Insert photo of safety harnes		
	Respirator	Dust Musk	Hearing Protection		Apron	Climber or Gen Hardhat	Safety Shoes		ther / lbers /es	Safety Goggles	Face Shield	2-Piece Suit Pants	2-Piece S Top	Suit Safety Harness	Reflective Vest	9
			DUSEKE							ASSEMBL	Y POINT, S	IGNAGES, F	PARKING	& SMOKING AR	EA	
	1	. Make sure	that your	work are	a is neat a	and tidy.		1	. Ider	ntify and Asser	nbly Point (Er	sure that a ful	ly stocked F	First Aid Box is availa	able & Regist	ter).
Work A	Area 2	. Remove a	nything th	at might o	cause em	ployees to trip	o and fall.	2	. Put	up all Signage	s's required or	ı site.				
	3	. Ensure tha	at suitable	waste bir	ns are on	site to dispos	se waste.	3	. Ider	ntify a Parking	Area. Ensure	that you have	all Emerge	ncy Numbers.		
	4	. Ensure tha	at your To	ols are at	a require	d place.		4	. Ider	ntify Smoking A	Area and ensu	re that Bin wit	h river sand	I is made available.		
	5	. Ensure tha	at Toilet is	available	& ancho	red.		5	. Pos	ition clearly ide	entified Water	(Drinking & w	ashing of ha	ands) in Green Area		
	6	. Before lea	ving site,	DO HOU	SEKEEPI	NG AGAIN.		6	. Ens	ure that Fire E	xtinguishers a	and Fire Beate	rs are availa	able on site. Rescue	Kit as well.	

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1. Pre- Task Activities

- Identify parking Area and display a sign
- Identify smoking area and ensure smoking bins are available
- Ensure drinking water is available
- Ensure fire beaters and extinguishers are available
- Ensure first aid boxes are available and sign displayed
- Establish emergency evacuation plan and erect signs
- Ensure emergency numbers are available
- Ensure rescue plan is communicated and rescue kit is available onsite
- Investigate and plan each phase of the job and choose the most suitable plant.
- Provide for emergency access and egress at all times.
- Provide for protection of the public, employees and livestock.
- Look out for changes in ground, weather and water condition

2. High risks activities

- Working at Height
- Stringing
- Over tensioning
- Working on close proximity to overhead lines
- Crossing the road
- Joining the conductor
- Lacking communication

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3. Tools and Equipment Required for this Activity (An example)

DESCRIPTION	QTY	CAPACITY
1. Puller and Tensioner	1	16ton
2. 2-Way Radio	8	
3. Temporary Stays	12	4ton
4. Working Shackles	18	210-450kn
5. Run-out Block	32	450-600mm
6. Come-along Clamp	14	27-32mm,10-15mm (47Kn)
7. Hammer	2	4pount
8. Swivel	6	221-350kN
9. Head Board	1	221kN
10. Pilot Connector Joint	4	9kN
11. Temporary Running Earths	6	
12. Pulling Sock	14	9kN
13. Snatch Block	10	4ton
14. Rope Pulley	4	1 – 3wheels (3 – 6 ton)
15. Talia System	12	3 – 6 ton
16. Coffin Hoist	6	3 – 6 ton
17. Wire Rope Sling	6	13-16mm
18. Fall Rescue Kit	2	
20. Wrist Tool Lanyard	24	

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SAFE WORK PROCEDURE/JOB OBSERVATION

Task: Stringing

	STEPS	SAFETY STEP BY STEP PROCESS	CRITICAL STEPS	JOB OBSERVATION Yes No		COMMENTS
1.	Conduct a daily continuous risk assessment (DSTI) and Stringing on site.	Communicate and ensure all employees are trained on the SWP they understand the contents of the DSTI and Safe Work Procedure	Ensure that stringing and regulation activities are task risk specific and that it covers all aspects of the activity Have employees sign an acknowledgement that they understood and was present when this SWP was communicated.			
2.	Risk Assessment	Conduct RA , by Safety Rep and Supervisor, including task risk assessment for stringing.	Ensure that all hazards and risks are identified and Communicated to employees. They have to sign an acknowledgement register to show that they understood,			
3.	Team briefing about the activity	Define individual roles and	Ensure that all appointments,			

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	by Supervisor	responsibilities assigned for the day. Clearly communicate with employees who is responsible for what, Ensure that employees are all feeling well, stress levels are low.	competency certificate and medicals (in writing) are in place. Lines of communication to be established and confirmed Ensure that communication at the work site is available in case of an emergency.	
4.	Equipment and PPE inspections.	Checklists to be completed and sign by supervisor and she rep before work starts. Records of this inspection to kept onsite	Ensure all Equipment have valid certificates, including calibration certificates are valid. Do buddy checks on harnesses	
5.	Emergency Evacuation plan (Refer to Site Emergency Plan)	Ensure that an emergency evacuation plan has been identified and explained to all	Test employee to see if they know and understand the emergency plan,	
6.	Job rotation for all climbers	Supervisor monitors all climbers for signs of fatigue. And ensure climbing working rota should in place and adhere to) to avoid fatigue.	Rotate climbers from structure to structure-supervisor to ensure rotation takes place as necessary; observers for climber fatigue	
7.	Supervisor to ensure that climbers are trained and	Ensure Medical certificate proving if employee can	Whenever people change teams – supervisor to ensure	

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	medically fit	work at heights without any restriction are available and Work on Height certificate are available & valid	that there is a balance within the team of newly qualified and experienced climbers.	
8.	Personal Protective Equipment	Ensure all employees including visitors are provided with PPE	Ensure all employees or every person onsite is wearing PPE (see PPE chart 1 on page 2).	
9.	Supervisor to confirm Rescue plan kit	Supervisor to ensure rescue kit is available and that employees are trained on how to perform rescue	Train employees on rescue plan and test if they understand how to perform rescue	
10.	Supervisor must be appointed and to be in possession of the latest fall protection plan	All employees working on Height must be trained on the contents of the FPP by EPP developer and proof must be kept onsite	Supervisor to continuously train employees on FPP and must always be available onsite or work area	
11.	Supervisor to inspect work area	Supervisor to inspect if towers are safe for climbing by means of binoculars	Climber to also inspect the tower when climbing and observe and notify the supervisor	
12.	Activity			
13.	Loading and Offloading of cable drum onto the truck and offloading onto the ground 8	-Training documents for the crane operator and rigger must be valid.	Ensure out riggers are fully extended, pin in place also stable and foot plate are used	

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	ton Crane truck by means of two x 5 ton slings and a shaft or chain.	-Load test certificates for crane and 3monthly inspection for lifting tackleClear communication must be maintained at all the timeRefer to Loading and offloading SWP.	during operation Ensure no crane operates under live Ensure all no one is in a close vicinity during the operation Ensure crane and slings have been inspected before work start.		
14.	Transportation of 4300kg conductor drums on site	-Conductor drums must be secured during transportation to siteRefer to Loading and offloading SWP.	All conductor cable drums must be secured, safe packed and chocked before transportation proceeds. Truck driver's license must be available		
15.	Loading / offloading of material and equipment with a crane truck	-Ensure that all workers that are not involved with the lifting are out of harm's way -Ensure employees climbing on the truck are trained on Working at Height -Ensure out riggers are fully extended and pin in place and stable -Refer to Loading and offloading SWP.	Competent rigger to rig the equipment and material, ensuring the material is secured, the crane truck is earthed and the out riggers are stable. Ensure crane operator is trained Ensure load test certificates of crane and lifting tackles are in place and 3 month		

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			inspections have been conducted	
16.	Positioning of the Puller.	Ensure that the winch and tensioners have been positioned in the correct position without any obstruction or being a risk to any employees / public members. Ensure recommended distance is maintained -Puller will be positioned at about 50m to 100m and at	Ensure winch and tensioner are positioned in accord with the stringing Method statement (MS-OHL 041) Ensure winch and Tensioner are back stayed as indicated on the method statement sub regulation 11.2 (refer to method statement) Only competent operator to operate.	
		level groundIt will be earth on ground using spike via 10mm copper cable	No one with lose clothing or jewellery is to operate the drum jack; appropriate PPE to be utilized. Supervisor to check and inspect the terrain and if recommended distance can be maintained Both machines to be earthed	
17.	Positioning of the Tensioner	Ensure recommended distance is maintained Ensure there is no obstructions in the close vicinity.	Supervisor to inspect the work area and ensure recommended distance is maintained. Supervisor to ensure earths	

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		-Ensure n stayed pro anchor blo -Tensione at about 5 at level gr -It will be using. -It will be using spik copper ca -Drum sta	er will be positioned from to 100m and round. earth on ground earth on ground to via 10mm	are inspected and good working conditions. Ensure all points of connections are secure. Supervisor to stay vigils and supervise the activ	ed. ant		
18.	Preparing for the full conductors.	suspende -Employe and safely -Truck mo used to po conductor jackEnsure th secured of -Hydraulio	byee underneath d loads e to keep clear y guide the load. bunted crane to be osition the con the hydraulic me drums are on the jack. c jack will be back using concrete	Supervisor to ensure eare inspected and good working conditions. Ensure all points of connections are secure. Supervisor to stay vigils and supervise the active Operators to ensure the means of communication clear to the employees. Ensure conductor are properly placed into hydrogeness.	ed. ant rity at on are		

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		-Alternative to back so Both pul	nere necessary. vely use stay plate tay the drum jack. ler and tensioner stayed using the	jacks			
19.	Fitting the conductor tensioner.	conducto and fit pu end of the en	he free end of the r, from its drum, lling socks to the e conductor. all points of on are correctly anductor through als. With the rope connected to r via single socks. It conductor tight all wheels so that it jump on the of the bull wheels idure)	Supervisor to verify and inspect if all is in order accord with the method statement. Conductor to be inspect and checked for any damages while being for Supervision at all times be visible. Inspect all connection be commencing activity.	in ted eed must		

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20.	Connecting the Pilot conductor	in front of operator i conductor the conductor the conductor the conductor the conductor the conductor the description of the conductor the co	the conductor is rly on the bull ng of pilot wire to octor by means of rd (crocodile) with hing sock and 6 ton 221kN (22ton) and 21kN (22ton). e joining sock and end of the rand secure it by	Supervisor to ensure warea is safe for employ Ensure hands protection worn Pig skin gloves. Ensure Single socks 1: 11/8 3800lbs and 2.2 to swivels or head board and secure before opercommences.	rees. on are 1/16- on is firm		
21.	Preparation for pulling Pilot wire.	jack must positioned loading th	perating roll over ensure it is d correctly before e pilot wire drum of rope into puller,	Only trained personnel work with stringing equipment. Machine to be switched and key to be with the operator.			

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22.	Pulling of pilot wire.	-Ensure the inserted of service of the roll over the inserted of service of the roll of the roll over the roll of	and radios are in critical places when crossing owerlines, road, es and bushy	Communication must be at all times by means of way radio. Supervisor to ensure of communication is main at all times Continuous communication be maintained at all time when tensioning the pill the communication is main at all times. Ensure if all employees how to use two way radiuring operation. Once the pilot cable has	lear Itained ation to nes lot wire s know dio		

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		tension to conductor levelRolling th	es above ground ne full steel drum ut an empty steel	checked, adjusted and cleared, stringing may commence. Supervisor to ensure the there is no employee unthe conductors being stand is running on the running on the running on the conductors.	nder trung		
		and 21.	follow step 20	block.			
23.	Changing Pilot wire S drum and the conduc	tor out block	reaches the run on the last of the pull.	Supervisor to give clea instruction to operators stop			
			machine operator leasing the tension conductor	Supervisor to verify and ensure if operators understood the instruct			
		-Manual rethe condu	ealising to slack ctor				
		-And ther and 21.	n follow step 20				
24.	When the conductor i	eaches -Ensure	communication is				

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the puller.	tower to on to the yoke plate come alor	to stop the mber will climb connect conductor tower by means of e, slings and 47kN ng clamp. The stringing is d. Dervisor will give to release	supervisor to ensure operators are understa the instructions clearly			

COMMENTS (Describe any practice that deserve compliment or correction)				
Revision.00				

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			SIGNATURE:	
NAME OF PERSON BEING	G OBSERVED:			
FOLLOW UP ACTION:				
	·		·	

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Participation Attendance Register

NO	Name	Surname	Designation	ID Number	Contacts	Company Name	Signature	Date
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								