APPENDIX A:GUARANTEED TECHNICAL PARTICULARS (GTPS) — NORMATIVEGALVANIZED STEEL STRUCTURES -PROPOSED KINANIE EPZ 66/11 SUBSTSTION

Tender No.

Tenuer IN	0		•••••••••••••••••••••••••••••	
Descriptio	on	Bidder's offer		
1. Manufa	cturer's Name & Co	ountry of manufacture		
	f item to be supplied			
	galvanized steel str	ructure		
	Description			
	2			
	Applicable Standar			
4.2.1	General Require			
4.2.1.1	Manufacturing star			
4.2.1.2	structures	f hot-rolled sections for use in th		
4.2.1.3	-	annels and flats are hot-rolled an		
1.2.1.2		enya Standard KS 02-572		
4.2.1.4	Tensile strength of			
	Yield stress of the			
4.2.1.5	Mechanical Proper	rties		
	A. ANGLES			
	Sr.No	Material Parameter	KPLC	
	1	Toursile stress of	Requirements >430<460 N/mm2	
	1	Tensile strength		
	2	Yield strength	255 N/mm2	
		Tolerances mass	4%	
		Leg Length	± 1 mm to 3mm	
	3	Thickness	± 0.5 mm	
		Out of square	Max deviation 2mm	
		straightness	0.3 % of length	
	4	Elongation	24-26%	
	5	Galvanizing Thickness	>110 Microns	
	6	Modulus of Elasticity	20 x 10*9	
	7	Density	7860kg/m3	
	8 Nominal length $\pm 0.4\%$			
	B. CHANNELS			
	1 Tensile strength		>430<460 N/mm2	
	2	Yield strength	255 N/mm2	
		Tolerances		
		depth	1.5-3mm	
	3	width of flange	2.5mm	
		flange thickness thickness of web	-0.5mm	
		flange out of square	±5mm Max deviation 2mm	
Table 1		flatness of web	Concave –max 15%	
	4	4 Elongation 24-26%		
	5	Galvanizing Thickness	>85 Microns	
	6	Modulus of Elasticity	20 x 10*9	
	7	Density	7860kg/m3	
	8 Nominal length $\pm 0.4\%$			
	C. HOLLOW SEC			
	1	Tensile strength	>430<460 N/mm2	
	2	Yield strength	255 N/mm2	
		Tolerances		
		Length	4%	
	2	Thickness	± 1 mm to 3mm	

1	1 3	Out of a				1		
		Out of s straight		± 0.5 mm	ation 2mm			
		Straight	11635	0.3 % of l				
	4	Elongatio	n	24-26%	engui			
	4				ong			
			2					
		2	T	$\frac{7860 \text{ kg/m}}{\pm 0.4\%}$				
	8							
		,NUTS,WASHER						
	1		king shear st		12			
	2		(Bolts/Nuts) 4.6/4					
	3	Tolerance		0.01				
		threads		0.01mm				
	4		ng Thicknes					
4.2.1.6			fter fabrication are straight and free from twists					
4.2.1.7	Sheared or cropped edge are dressed to a neat finish and are free from							
7.2.1./	distortion							
		re drilled in one oper-						
		not be formed by a ga						
4.2.1.8				ach other so that a gau	-			
	less in diar	neter than the diameter	er of the bolt	passes freely through	the	1		
	assembled	members in a direction	<u>on at right a</u> n	gle to such members				
4.2.1.9				pers connecting steel t	o steel			
4.2.1.10		f flat straps are carried						
4.2.2	Welding	1						
4.2.2.1	Type of we	elding						
	Type of w	Juling						
4.2.2.2	Mode of cleaning of welds							
4.2.3	Galvanizing							
4.2.3.1	~			g and the removal of b	urrs are			
	completed before the galvanizing process commences							
4.2.3.2	Type of galvanization							
4.2.3.3			including th	e threads, and the thre	ads are left			
	uncoated in the case of nuts							
4.2.3.4	Uniformity	of the zinc coating						
4.2.3.5	Post-treatn	Post-treatment (chromating)						
	CONTRACTOR COMPLIANCE SHEET							
4.2.4	CONTRA	e /	CE SHEET					
4.2.4	CONTRA	e /	CE SHEET		KPLC			
		CTOR COMPLIAN	CE SHEET		KPLC Require			
4.2.4 Table 2	CONTRA No.	e /	CE SHEET		Require			
		CTOR COMPLIAN		e 'A e fabricatad	Require ments			
		CTOR COMPLIAN Item Confirm supply of s	hop drawing		Require			
	No.	CTOR COMPLIAN Item Confirm supply of s upon award success	hop drawing ful bid in por	table device	Require ments			
	No.	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional	hop drawing ful bid in por bolts/nuts/w	table device	Require ments			
	No. 1	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch	hop drawing ful bid in por bolts/nuts/w or)	rable device rashers (both	Require ments 2 No's			
	No. 1	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co	hop drawing ful bid in por bolts/nuts/w or)	rable device rashers (both	Require ments 2 No's			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne	table device vashers (both ss measuring	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co	hop drawing ful bid in por bolts/nuts/w or) ating thickne inanie order	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne	table device vashers (both ss measuring	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne inanie order	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing f <u>ul bid in por</u> bolts/nuts/w or) ating thickne inanie order No.	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne inanie order No. 1	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne inanie order No. 1 2	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne inanie order No. 1 2 3	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne inanie order No. 1 2 3 4	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne inanie order No. 1 2 3 4 5	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			
	No. 1 2 3	CTOR COMPLIAN Item Confirm supply of s upon award success Supply of additional connection and anch Supply calibrated co- equipment	hop drawing ful bid in por bolts/nuts/w or) ating thickne inanie order No. 1 2 3 4 5 6	table device rashers (both rss measuring r list)	Require ments 2 No's Extra 2%			

4.3	Table 3	9						
	Table 3							
		10						
		11						
		12						
		13						
		14						
		15						
		16						
		17						
		18						
5	Marking & Packing							
5 1 1	Where an item includes a number of components to form a complete							
5.1.1	assembly, all component parts are included in one composite package which shall be firmly strapped or bound together							
5.1.2	All galvanized parts are protected from injury to the zinc coating due to abrasion during periods of transit, storage and erection							
5.2	Markings							
A1	Tests to be performed							
A2	Standards for inspection and test	ng						
A3	All manufactured galvanized steel structure shall be offered for FATs and							
	inspection in the presence of KPLC engineers at manufacturers site Supplier shall replace without charge to KPLC items that don't meet							
A4	specification				Cl			
B1	QAP							
В2	Delivery time, Production capacity & experience of the manufacturer							
	Technical documents to be submitted with tender documents a. Fully-filled clause by clause Guaranteed Technical Particulars (GTPs)-							
	a. Fully-filled clause by clause Guaranteed Technical Particulars (GTPs)- Appendix D - stamped and signed by the manufacturer.							
	b. Shop drawings in soft copy (.pdf and .dwg)							
C1	c. Manufacturer's catalogues, ld. Copies of required test certif			al data;				
	e. Details of manufacturing capacity							
	f. Sales records for previous five years and reference letters from at least							
	four of the customers; Documents to be submitted for approval before manufacture							
	a. Fully filled clause by clause Guaranteed Technical Particulars (GTPs							
C2	b. Drawings and technical data of the galvanized steel structure; stamped							
	and signed by the manufacturer.							
	c. Marking and packaging deta	115			I			
* Words	like 'agreed', 'confirmed', 'As per	KPLC spec	ifications',	etc. shall n	ot be accept	ed and shal	l be consider	red non-responsive.
•••••								
•••••		•••••	•••••					
Manufact	urer's Name, Signature, Stamp	and Date	•••••	1				
	-,,,,,,			1			1	