

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		REMARKS
			UNIT-PRICE	AMOUNT	
			FC		
			UNIT-PRICE	AMOUNT	
(5) Stack Drainage Pit					
Excavation		m <sup>3</sup> 240			Including disposal
Backfilling	Excavated sand	m <sup>3</sup> 125			
Sheet pile	Driving & Removing	ton 17			Including waling, strut, jack, angle brace etc.
Dewatering		L.S 1			
Gravel layer	200mm thick	m <sup>3</sup> 6			
Leveling concrete	100mm thick Class-F	m <sup>3</sup> 3			
Reinforced concrete	Class-D	m <sup>3</sup> 44			Including form work and form staging
Reinforcing bar	ASTM A615 Gr.40 deformed	ton 4			Including bending, cutting and placing
Construction joints		m 39			Including water stop

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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(6) Unit Neutralizing Pit							
Excavation		m <sup>3</sup> 440					Including disposal
Backfilling	Excavated sand	m <sup>3</sup> 170					
Sheet pile		ton 93					Including waling, strut, jack, angle brace etc.
Dewatering		L.S 1					
Gravel layer	200mm thick	m <sup>3</sup> 14					
Leveling concrete	100mm thick Class-F	m <sup>3</sup> 8					
Reinforced concrete	Class-D	m <sup>3</sup> 110					Including form work and form staging
Reinforcing bar	ASTM A615 Gr.40 deformed	ton 9					Including bending, cutting and placing
Construction joints		m 86					Including water stop

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Acid and alkali proof lining	Epoxy resin Class-A	m <sup>2</sup> 290					Including glass wool cloth
Hand rail	SGP 50A & SGP 40A 1200mm height	m 32					Including painting and chain
Ladder (steps)	400mm width	m 9					Including painting
Anchor box		each 12					
Leak test		L.S 1					
Sub total (6)							

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DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(7) House Boiler Foundation								
Excavation		m <sup>3</sup>	50					Including disposal
Backfilling	Excavated sand	m <sup>3</sup>	10					
Gravel layer	150mm thick	m <sup>3</sup>	15					
Leveling concrete	50mm thick Class-F	m <sup>3</sup>	5					
Reinforced concrete	Class-D	m <sup>3</sup>	38					Including form work and form staging
Reinforcing bar	ASTM A615 Gr.40 deformed	ton	3					Including bending, cutting and placing
Sub total (7)								

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(8) Foundation of Air Form Equipment Area								
Gravel layer	150mm thick	m <sup>3</sup>	2					
Leveling concrete	50mm thick Class-F	m <sup>3</sup>	1					
Reinforced concrete	Class-D	m <sup>3</sup>	3					Including form work and form staging
Reinforcing bar	ASTM A615 Gr.40	ton	1					Including bending, cutting and placing
Anchor box		each	8					
Sub total (8)								

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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(9) Foundation of Fire Protection System							
Gravel layer	150mm thick	m <sup>3</sup> 8					
Leveling concrete	50mm thick Class-F	m <sup>3</sup> 3					
Reinforced concrete	Class-D	m <sup>3</sup> 24					Including form work and form staging
Reinforcing bar	ASTM A615 Gr.40 deformed	ton 2					Including bending, cutting and placing
Sub total (9)							





DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs.		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(a) Transformer Yard Foundation								
Excavation		m <sup>3</sup>	500					Including disposal
Backfilling		m <sup>3</sup>	180					
Sheet pile	Horizontal projection length	m	48					Driving & Removing
Dewatering		L.S	1					
Gravel layer	150mm thick	m <sup>3</sup>	30					
Leveling concrete	50mm thick Class-F	m <sup>3</sup>	10					
Steel pipe pile	∅ 609.6 x 9.0mm Driving length	m	460					Including materials sand in pile, concrete in pile, top reinforcement and field weld joint
Reinforced concrete	Underground Class-D	m <sup>3</sup>	540					
Reinforced concrete	Wall Class-D	m <sup>3</sup>	30					



DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(b) Flue Gas Duct Foundation								
Excavation		m <sup>3</sup>	120					Including disposal
Backfilling		m <sup>3</sup>	70					
Dewatering		L.S	1					
Gravel layer	150mm thick	m <sup>3</sup>	5					
Leveling concrete	50mm thick Class-F	m <sup>3</sup>	2					
Cast-in situ RC pile	ø550mm	m	320					Including materials top chipping & top reinforcement
Reinforced concrete	Underground Class-D	m <sup>3</sup>	50					
Reinforcing bar		ton	4					
Sub total (b)								









557  
ECC

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(a) Road and Drainage System							
Road pavement	Asphalt t=5cm, subbase t=30cm	m <sup>2</sup> 2,400					
Manhole	Checkered plate cover Including painting	set 11					Including ladder, hook, concrete corner angle
Catch basin	Including concrete cover	set 18					
Side ditch		m 940					
Drainage pipe	Concrete pipe ø500 sand, gravel layer	m 240					Including rein- forced concrete for crossing road
Drainage pipe	Concrete pipe ø200 sand, gravel layer	m 60					Including rein- forced concrete for crossing road
Dewatering		L.S 1					
Road marking		m 430					
Sub total (a)							





DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(a) Site Finishing Work							
(1) Guardrails		L.S	1				
(2) Gates and Fence		L.S	1				
(3) Trees		L.S	1				
(4) Gravel Layer		L.S	1				
(5) Patrol Way		L.S	1				
(6) Miscellaneous Work		L.S	1				
(7) Land Filling	from GL-1.0m to GL	m <sup>3</sup>	7,000				
Sub total (a)							







SUMMARY OF  
SCHEDULE OF PRICES  
(UNIT 2)



2.

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(Tenderer's Name)

SUMMARY OF  
SCHEDULE OF PRICES

(1/8)

DESCRIPTION	FOREIGN CURRENCY	LOCAL CURRENCY (Rs)	TOTAL IN EQUIVALENT LOCAL CURRENCY (Rs)
I. POWER PLANT EQUIPMENT			
1. STEAM GENERATOR AND AUXILIARY EQUIPMENT			
(1) Equipment and materials (FOB)			
(2) Transportation to port of Karach, customs clearance and inland transportation to Site			
(3) Insurance for transport to Site			
(4) Erection on Site			
(a) Equipment and materials for erection and test operation			
(b) Manufacturer's Specialists			
(c) Erection specialists, technicians and labors			
(d) Insurance for erection			
SUB-TOTAL			

237



(Tenderer's Name)

(2/8)

DESCRIPTION	FOREIGN CURRENCY	LOCAL CURRENCY (Rs)	TOTAL IN EQUIVALENT LOCAL CURRENCY (Rs)
2. STEAM TURBINE AND AUXILIARY EQUIPMENT			
(1) Equipment and materials (FOB)			
(2) Transportation to port of Karach, customs clearance and Inland transportation to Site			
(3) Insurance for transport to Site			
(4) Erection on Site			
(a) Equipment and materials for erection and test operation			
(b) Manufacturer's Specialists			
(c) Erection specialists, technicians and labors			
(d) Insurance for erection			
SUB-TOTAL			

822

(Tenderer's Name)

(3/8)

DESCRIPTION	FOREIGN CURRENCY	LOCAL CURRENCY (Rs)	TOTAL IN EQUIVALENT LOCAL CURRENCY (Rs)
3. COMMON AUXILIARY EQUIPMENT			
(1) Equipment and materials (FOB)			
(2) Transportation to port of Karach, customs clearance and Inland transportation to Site			
(3) Insurance for transport to Site			
(4) Erection on Site			
(a) Equipment and materials for erection and test operation			
(b) Manufacturer's Specialists			
(c) Erection specialists, technicians and labors			
(d) Insurance for erection			
SUB-TOTAL			

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(Tenderer's Name)

(4/8)

DESCRIPTION	FOREIGN CURRENCY	LOCAL CURRENCY (Rs)	TOTAL IN EQUIVALENT LOCAL CURRENCY (Rs)
4. GENERATOR AND ELECTRICAL EQUIPMENT	_____	_____	_____
(1) Equipment and materials (FOB	_____	_____	_____
(2) Transportation to port of Karach, customs clearance and Inland transportation to Site	_____	_____	_____
(3) Insurance for transport to Site	_____	_____	_____
(4) Erection on Site	_____	_____	_____
(a) Equipment and materials for erection and test operation	_____	_____	_____
(b) Manufacturer's Specialists	_____	_____	_____
(c) Erection specialists, technicians and labors	_____	_____	_____
(d) Insurance for erection	_____	_____	_____
SUB-TOTAL	_____	_____	_____

740

(Tenderer's Name)

(5/8)

DESCRIPTION	FOREIGN CURRENCY	LOCAL CURRENCY (Rs)	TOTAL IN EQUIVALENT LOCAL CURRENCY (Rs)
5. PLANT COMPUTER SYSTEM			
(1) Equipment and materials (FOB)	_____	_____	_____
(2) Transportation to port of Karachi, customs clearance and Inland transportation to Site	_____	_____	_____
(3) Insurance for transport to Site	_____	_____	_____
(4) Erection on Site	_____	_____	_____
(a) Equipment and materials for erection and test operation	_____	_____	_____
(b) Manufacturer's Specialists	_____	_____	_____
(c) Erection specialists, technicians and labors	_____	_____	_____
(d) Insurance for erection	_____	_____	_____
SUB-TOTAL			

(Tenderer's Name)

(6/8)

DESCRIPTION	FOREIGN CURRENCY	LOCAL CURRENCY (Rs)	TOTAL IN EQUIVALENT LOCAL CURRENCY (Rs)
II. ARCHITECTURAL/STRUCTURAL AND CIVIL WORKS (including Building Service Facility)			
(1) Main powerhouse			
(2) Stack			
(3) Auxiliary buildings			
(4) Cooling waterway			
(5) Other civil works			
(6) Misc. foundations			
(7) Road and drainage system			
(8) Site finishing work			
SUB-TOTAL			

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(Tenderer's Name)

(7/8)

DESCRIPTION	FOREIGN CURRENCY	LOCAL CURRENCY (Rs)	TOTAL IN EQUIVALENT LOCAL CURRENCY(Rs)
III. MANDATORY SPARE PARTS AND EXPENDABLES (excluding Tenderer's recommended spare parts and recommended testing equipment)			
1. POWER PLAN EQUIPMENT			
(1) Mandatory spare parts (FOB)			
(2) Expendables (consumable) (FOB)			
(3) Transportation to port of Karach, customs clearance and Inland transportation to Site			
(4) Insurance for transport to Site			
2. BUILDING SERVICE FACILITY			
(1) Mandatory spare parts (FOB)			
(2) Freight to Site Storage			
(3) Insurance for transport to Site			
SUB-TOTAL			

243

(Tenderer's Name)

(8/8)

DESCRIPTION	FOREIGN CURRENCY	LOCAL CURRENCY (Rs)	TOTAL IN EQUIVALENT LOCAL CURRENCY (Rs)
IV. TECHNICAL ADVISERS FOR OPERATION AND MAINTENANCE	_____	_____	_____
V. TRAINING FOR KESC PERSONNEL	_____	_____	_____
VI. Performance * (i) for 10% Bond	_____	_____	_____
Total of * (i) for 10% Tender Price	_____	_____	_____

2/1/84

SCHEDULE OF PRICES

I. Power Plant Equipment

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
1. EQUIPMENT														
1.1 STEAM GENERATOR														
(1) Boiler general equipment including following items specified in clause 1.1 of "Scope of supply" in Section II; items (1) through (8), (11), (14), (15), (21), and (23)														
(2) Fuel oil firing system and auxiliary fuel gas firing system														
(3) Air preheater and steam coil air preheater														
(4) Air ducts and flue gas ducts and soots hopper														
(5) Fans including following items specified in clause 1.1 of "Scope of supply" in Section II; items (18), (19) and (20)														
SUB-TOTAL														



(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(6) Seal air, aspirating air system														
(7) Auxiliary steam system														
(8) Main steam piping														
(9) Cold reheat piping														
(10) Hot reheat piping														
(11) Feed water and spray water piping														
(12) Wash water, waste water, cooling water and N2 gas system														
(13) Boiler control system														
(14) Burner control system														
(15) Instrumentation														
(16) Power cable, control cable, control instrument cable, computer cable, cable duct, tray conduit and grounding wire														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commission (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E) (E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J) (J)	
(17) Steam general of supporting steel and hanger beam, platform, stairs ladders, walk ways, etc.														
(18) Painting														
(19) Insulation and lagging (including boiler and piping)														
(20) Testing including all field test items and all testing materials														
Note: The following items specified in clause 1.1 of "Scope of Supply" in Section II; items (34), (35), (36) and (41) shall be included in the above appropriate items.														
1.2 AUXILIARY EQUIPMENT														
(1) Steam converter system														
(2) Instrument air system														
(3) Service air system														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(4) Chemical feed system														
(5) Sampling rack system														
(6) Piping for items (1) through (6)														
(7) Painting for items (1) through (6)														
(8) Test and testing materials (including chemical, lubricant, etc.)														
SUB-TOTAL														
TOTAL OF ITEM 1														
Spare parts of Item 1														
Total of Item 1 with Spare parts														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin						Local Currency						Total in Equivalent Pak Rupees	
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)		Total in Rupees (F)+(G)+(H)+(I)+(J)
2. STEAM TURBINE AND AUXILIARY EQUIPMENT														
2.1 STEAM TURBINE														
(1) Turbine including following items specified in Caluse 1.1 of "Scope of supply" in Section III; items (1), (2), (3), (5), (9), (13), (14) and (15)														
(2) Lubricating and hydraulic oil system														
(3) Gland steam seal system														
(4) Turbine supervisory instrument														
(5) Turbine instrumentation														
(6) Insulation and metal lagging														
(7) Painting														
(8) Test and testing materials (including turbine lubricating oil)														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
2.2 AUXILIARY EQUIPMENT														
(1) Surface condenser														
(a) Surface condenser including following items specified in clause 2.1 of "Scope of Supply" in Section III; items (1), (2), (3), (6), (7), (8), (9), (10) and (12)														
(b) Continuous tube cleaning system														
(c) Debris filter														
(d) Operating galleries														
(2) Air ejector with starting air ejector														
(3) Priming vacuum equipment														
(4) Circulating water pump														
(5) Condensate pump														
(6) Feedwater heater														
(7) Deaerator														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(8) Boiler feed pumping equipment														
(9) Bearing cooling water system														
(10) Make up water tank and transfer pump														
(11) Turbine clean drain tank and pump														
(12) Piping														
(13) Instrumentation														
(14) Painting for above items (1) through (13) and (17)														
(15) Insulation and lagging for above items (2), (6), (7), (8), (11), (12) and (13)														
(16) Test and testing materials (including chemical, lubricant, etc.)														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(17) Power cable, control cable, control instrument cable, cable duct, tray, conduit and grounding wire														
SUB-TOTAL														
TOTAL OF ITEM 2														
Spare parts of Item 2														
Total of Item 2 with Spare parts														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin						Local Currency						Total in Equivalent Pak Rupees	
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)		Total in Rupees (F)+(G)+(H)+(I)+(J)
3. ANCILLARY SYSTEM AND COMMON AUXILIARY EQUIPMENT														
3.1 HOUSE BOILER														
3.2 TURBINE ROOM OVERHEAD CRANE														
3.3 WATER SUPPLY SYSTEM														
(1) Water pretreatment system														
(2) Drinking water system														
(3) Raw water tank including service water pump														
(4) Water treatment system														
(5) Demineralized water tank including Transfer Demineralized water pump														
3.4 DRAINAGE AND WASTE WATER TREATMENT EQUIPMENT														
3.5 FUEL OIL SYSTEM														
3.6 FIRE PROTECTION SYSTEM														
SUB-TOTAL														



(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin						Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	
3.7 INTAKE SCREEN													
3.8 CHLORINATION EQUIPMENT													
3.9 YARD INSTRUMENT AIR SYSTEM													
3.10 PIPE SUPPORT AND STRUCTURAL STEEL FOR YARD PIPING													
3.11 LABORATORY													
3.12 REPAIR ROOM INSTRUMENTS													
3.13 TRUCK CRANE													
3.14 FORK LIFT TRUCK													
3.15 MACHINE SHOP EQUIPMENT													
3.16 MISCELLANEOUS INSTRUMENT AND CONTROL APPARATUS													
3.17 INSULATION AND LAGGING FOR EQUIPMENT INCLUDED IN ITEM 3													
3.18 PAINTING FOR EQUIPMENT INCLUDED IN ITEM 3													
SUB-TOTAL													

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin						Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	
Note: Power cases, control cooler control instrument cable, computer cable, cable ducts, trays, conduits and grounding wires shall be included in the above each item.													
3.19 TEST AND TESTING MATERIALS (including chemical lubricant, etc.)													
SUB-TOTAL													
TOTAL OF ITEM 3													
Spare parts of Item 3													
Total of Item 3 with Spare parts													

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
4. GENERATOR AND ELECTRICAL EQUIPMENT														
4.1 GENERATOR EQUIPMENT														
(1) Generator, excitation equipment with accessories including hydrogen gas supplying unit, carbon dioxide supply equipment and seal oil system														
(2) Hydrogen generating system														
(3) Isolated phase bus duct with accessories (including mounting structure)														
(4) Potential transformer cubicle with accessories														
(5) Surge absorber cubicle with accessories														
(6) Neutral grounding resistor cubicle with accessories														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin						Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	
4.2 POWER TRANSFORMER													
(1) Main transformer with accessories (including insulation oil and cooler cubicle)													
(2) Auxiliary transformer with accessories (including insulation oil and secondary cubicle)													
(3) Starting transformer with accessories (including insulation oil and secondary cubicle)													
4.3 METAL CLAD SWITCH GEAR													
(1) 6,600 volt metal clad switch gear (M/C) with accessories													
(a) Unit No. 1 M/C													
(b) Common M/C													
(2) 400 volt power center (P/C) with accessories													
(a) Unit No. 1 P/C													
(b) Common P/C													
SUB-TOTAL													

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(c) Unit No. 1 P/C transformer														
(d) Common P/C transformer														
(3) 400 volt control center (C/C) with accessories														
(a) 1-1A C/C														
(b) 1-1B C/C														
(c) 1-2A C/C														
(d) 1-2B C/C														
(e) 1-3 C/C														
(f) Motor valve C/C														
(g) Screen and chlo. C/C														
(h) No. 1 common C/C														
(4) Water treatment switchgear with accessories														
(a) 400 V C/C														
(b) 380 V - 220 V distribution panel assembly														
(5) Waste water treatment switchgear														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(6) DC 220 V control center with accessories														
(7) CVCF with distribution panel														
4.4 PANEL AND BOARD														
(1) BTG board with accessories														
(2) Distribution panel (D/P) with accessories														
(a) 220 V normal and emergency lighting D/P														
(b) 220 V instrument D/P														
(c) DC 220 V D/P														
(d) 380 V - 220 V miscellaneous power D/P														
(e) 220 V lighting D/P														
(f) 220 V - 110 V laboratory D/P														
(g) 380 V - 220 V administration building D/P														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(3) Auxiliary control panel														
(4) Auxiliary relay panel														
(5) Substation monitoring panel														
4.5 EMERGENCY DIESEL ENGINE GENERATOR														
(1) Diesel engine generator with accessories														
(2) Control panel with accessories														
4.6 BATTERY AND BATTERY CHARGER														
(1) DC 220 V battery and battery charger with accessories														
(a) Storage battery														
(b) Battery charger														
(2) DC 24 V battery and battery charger with accessories														
(a) Storage battery														
(b) Battery charger														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(3) DC 48 V battery and battery charger with accessories														
(a) Storage battery														
(b) Battery charger														
4.7 COMMUNICATION														
(1) Paging system with accessories														
(a) Amplifier panel														
(b) Power source panel														
(c) Hand set														
(d) Speaker														
(e) Operator console desk														
(2) Private automatic branch exchanger (PABX) with accessories														
(a) PABX														
(b) Attendant console														
(c) Telephone set														
(3) Clock system with accessories														
(a) Master clock														
SUB-TOTAL														



(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(b) Slave clock														
4.8 LIGHTING														
(1) Lighting fixture														
(2) Lighting distribution panel with accessories														
(3) AC-DC changeover panel														
4.9 CV (XLPE) CABLE														
(1) 220 kV CV cable with accessories for main transt.														
(2) 132 kV CV cable with accessories for starting transt.														
4.10 CONSTRUCTION MATERIALS														
(1) Cable and wire														
(a) 6,600 V power cable														
(b) 600 V power cable														
(c) 600 V control cable														
(d) Communication cable														
(e) Special cable														
(2) Steel conduit														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
(3) Cable tray														
(4) Grounding wire														
(5) Distribution panel for maintenance works														
4.11 TEST AND TESTING MATERIALS														
SUB-TOTAL														
TOTAL OF ITEM 4														
Spare parts of Item 4														
Total of Item 4 with Spare parts														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
5. PLANT COMPUTER SYSTEM														
5.1 CENTRAL PROCESSING UNIT WITH MAIN MEMORY (INCLUDING SOFTWARE)														
5.2 AUXILIARY MEMORY UNIT WITH ACCESSORIES														
5.3 PROCESS INPUT/OUTPUT UNIT WITH ACCESSORIES														
5.4 CABINET OF COMPUTER SYSTEM INCLUDING FOLLOWING ITEMS														
CPU and FDD unit cabinet, auxiliary memory unit cabinet, CRT controller cabinet, I/I Device cabinet, termination cabinet and distribution cabinet														
5.5 CRT UNIT														
5.6 PRINTER														
5.7 I/O PRINTER														
5.8 TREND RECORDER														
5.9 FLOPPY DISK DEVICE														
SUB-TOTAL														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
5.10 HARD COPY UNIT														
5.11 OPERATOR'S CONSOLE														
5.12 OPERATOR'S DESK														
5.13 PRINTER DESKS														
5.14 ENGINEER'S DESK														
5.15 CONSTRUCTION MATERIALS														
Including following items specified in clause 1.1 of "Scope of supply" in Section VI; items (23), (24), (25), (26) and (28)														
SUB-TOTAL														
TOTAL OF ITEM 5														
Spare parts of Item 5														
Total of Item 5 with Spare parts														

(Tenderer's Name)

Description	Foreign Currency in Currency of Country of Origin							Local Currency						Total in Equivalent Pak Rupees
	FOB Port of Export (A)	Marine Transportation to Port of Karachi (B)	Insurance for Transportation (C)	Erection and Commissioning (D)	Insurance for Erection and Commissioning (E)	Total Currency of Country of Origin (A)+(B)+(C)+(D)+(E)	Equivalent Pak Rupees	Customs Clearance & Inland Transportation to Project Storage Area (F)	Indigenous Equipment Material (G)	Insurance from port of Karachi to Project Storage Area (H)	Erection, Commissioning (I)	Insurance for Erection and Commissioning (J)	Total in Rupees (F)+(G)+(H)+(I)+(J)	
6. MANDATORY SPARE PARTS														
6.1 STEAM GENERATOR AND AUXILIARY EQUIPMENT														
(1) Steam generator														
(2) Auxiliary equipment														
6.2 STEAM TURBINE AND AUXILIARY EQUIPMENT														
(1) Steam turbine														
(2) Auxiliary equipment														
6.3 COMMON AUXILIARY EQUIPMENT														
6.4 GENERATOR AND ELECTRICAL EQUIPMENT														
6.5 PLANT COMPUTER SYSTEM														
TOTAL OF ITEM 6														
Spare parts of Item 6														
Total of Item 6 with Spare parts														



SCHEDULE OF PRICES  
FOR  
CIVIL AND ARCHITECTURAL WORKS  
( UNIT 2 )

The quantities and working items which are listed in the Schedule of Prices are considered to be the estimated quantities and items for which the Bidder will be held responsible and on which the Bidder will submit his proposal price. The Bidder shall include all required materials and labors required to complete all works as stipulated in the Specification and/or Drawings.

Notes:

FC means foreign currency in country of origin.

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PROJECT: WEST WHARF THERMAL POWER PLANT		SCHEDULE OF PRICES			DATE	
SUBJECT: Unit-2 Civil & Architectural Works		Rs	FC	SHEET OF		
DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	UNIT-PRICE	AMOUNT	REMARKS
A. Main Powerhouse		L.S	1			Including boiler mat foundation
B. Administration Building		L.S	1			
C. Auxiliary Buildings		L.S	1			
D. Cooling Water Way		L.S	1			
E. Other Civil Works		L.S	1			
F. Misc. Foundation		L.S	1			
G. Road and Drainage System		L.S	1			
H. Site Finishing Work		L.S	1			
I. Dismantling Work		L.S	1			
Total						

PROJECT: WEST WHARF THERMAL POWER PLANT		SCHEDULE OF PRICES				DATE
SUBJECT: Unit-2 Main Powerhouse		Rs	FC	SHEET OF		
DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	UNIT-PRICE	AMOUNT	REMARKS
A. Main Powerhouse						
(1) Earth Work		L.S	1			
(2) Piling Work		L.S	1			
(3) Reinforced Concrete Work		L.S	1			
(4) Structural Steel Work		L.S	1			
(5) Concrete Block Work		L.S	1			
(6) Waterproofing Work		L.S	1			
(7) Metal Work		L.S	1			
(8) Plaster Work		L.S	1			
Sub total (1) - (8)						





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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(2) Piling Work							
Steel pipe pile	Driving length ø609.6 x 9.0mm thick	m		7,224			Including materials, sand in pile, top reinforcement and field weld joint
Sub total (2)							
(3) Reinforced Concrete Work							
Reinforcing bar	ASTM A615 Gr.40 deformed	ton		570			Including bending, cutting and placing
Reinforced concrete	Mat foundation Class-D	m <sup>3</sup>		5,250			Including form work
Reinforced concrete	Under-ground wall Class-D	m <sup>3</sup>		80			Including form work
Reinforced concrete	Slab Class-D	m <sup>3</sup>		920			Including form work

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Reinforced concrete	Equipment fnds Class-D	m <sup>3</sup> 350					Including form work
Reinforced concrete	T/G pedestal Class-B	m <sup>3</sup> 850					Including form work
Precast concrete panel	t=120mm Class-C	m <sup>2</sup> 1,300					Including form with steel attachment and back-up materila & caulking
Fill concrete	Air mortar	m <sup>3</sup> 1,520					
Chipping		m <sup>2</sup> 450					For top of equipment foundation & T/G pedestal
Form staging for T/G pedestal	Steel	m <sup>3</sup> 2,800					
Anchor frame and bolt setting		ton 3					
Support frame for T/G pedestal reinforcement		ton 5					
Reinforcing bar	T/G pedestal and Equipment Foundations	ton 155					
Sub total (3)							

7/25

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(4) Structural Steel Work								
Structural steel	SS41	ton	662					Material & Fabrication
Structural steel	SM41A	ton	214					Material & Fabrication
Structural steel erection		ton	876					Including Grouting for column base
Miscellaneous steel	Mono-rails, etc. SS41	ton	20					Material, Fabrication & erection
Sub total (4)								
(5) Concrete Block Work								
Precast concrete block								
Light weight concrete block for roof		m <sup>2</sup>	1,500					With sand cushion, elastic joint

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	RS		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Splash block		each	1					
Concrete block at corner roofing		m	260					
Sub total (5)								
(6) Waterproofing Work								
Built-up asphalt waterproof	Class-A	m <sup>2</sup>	1,610					
Caulking		m	1,410					
Sub total (6)								



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DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(7) Metal Work								
Grating for floor and cutwalk	t=32mm galvanized	m <sup>2</sup>	500					
Grating for tread of stair	t=25mm galvanized	m <sup>2</sup>	95					
Steel deck	614 x 50 x 1.2 galvanized	m <sup>2</sup>	3,800					
Metal siding Vinyl coated	With fixing hardware	m <sup>2</sup>	1,580					Including boiler
Hand rail	H=1,100	m	680					With painting Including stair hand rail
Corner guards	H=3,000	each	32					With painting
Steel ladder	With safety cage	m	16					With painting Including anchoring
Trench covers and frames		ton	10					With corner angle with painting
Vinyl coated metal flushing		m <sup>2</sup>	210					
Coping	Flattened area	m <sup>2</sup>	240					Including pipe space covering

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Vinyl coated metal for parapet rear side		m <sup>2</sup>	220					
Toe plate	6.0mm thick	ton	30					With painting
Border strip for slab opening of T/G pede.		m	80					
Embedded plates hook and sleeve		ton	5					With painting
Steel ring		each	36					With painting
Roof drain	125mm dia vertical type	each	14					
Down spout	125mm galvanized	m	360					Including boiler
Vinyl coated metal V beam roofing		m <sup>2</sup>	615					For boiler
Vinyl coated metal fascia and coping		m	100					For boiler
Metal gutter		m	24					For boiler
Vinyl coated metal siding		m <sup>2</sup>	500					For boiler
Light weight suspended ceiling		m <sup>2</sup>	19					Elevator shaft



DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(9) Doors, Windows, and Louvers							
Steel flush hollow core swing door	Including threshold	m <sup>2</sup> 25					With louver, glass painting and hardwares
Steel flush hollow core hanger door	Including threshold	m <sup>2</sup> 12					With louver, glass, painting and hardwares
Steel louvers		m <sup>2</sup> 2					With bird screen
Aluminium window	With glass	m <sup>2</sup> 365					
Aluminium louvers		m <sup>2</sup> 90					
Sub total (9)							
(10) Painting Work							
Oil paint for structural steel		m <sup>2</sup> 30,700					

afc

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Vinyl paint for concrete	2 coats interior	m <sup>2</sup> 90					
Vinyl paint for concrete	3 coats exterior	m <sup>2</sup> 1,300					
Vinyl paint for gypsum board		m <sup>2</sup> 140					
Sub total (10)							
(11) Interior Finish Work							
Vinyl tile	t=3.0mm	m <sup>2</sup> 1,320					
Vinyl base	H-100	m 120					
Nameplates of room		each 10					
Glass wool	t=50	m <sup>2</sup> 210					
Cement asbestos flexible board		m <sup>2</sup> 140					

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Sub total (11)							
(12) Ventilation System							
Exhaust air fan	Roof ventilator 1200 ø x 22300 CMH x 10 mmHg x 3.7 Kw	EA 8					
Secondary electrical wiring		L.S 1					
Miscellaneous		L.S 1					
Sub total (12)							
(13) Drainage System							
Drainage system		L.S 1					



PROJECT: WEST WHARF THERMAL POWER PLANT

SUBJECT: Unit-2 Administration Building

SCHEDULE OF PRICES

DATE

SHEET OF

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		REMARKS
				UNIT-PRICE	AMOUNT	
B. Administration Building						
(1) Earth Work		L.S	1			
(2) Piling Work		L.S	1			
(3) Reinforced Concrete Work		L.S	1			
(4) Concrete Block Work		L.S	1			
(5) Waterproofing Work		L.S	1			
(6) Tile Work		L.S	1			
(7) Carpentry		L.S	1			
(8) Metal Work		L.S	1			
Sub total (1) - (8)						





DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(14) Water Supply, Drainage, Sewage System								
1. Water supply equipment system		L.S	1					Including disposal
2. Hot water supply equipment work		L.S	1					
3. Sanitary fixture		L.S	1					
4. Drainage and vent system		L.S	1					
5. Clarification tank equipment		L.S	1					
Sub total (14)								
(15) Elevator Facilities		L.S	1					
Total (1) - (15)								

2085

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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(1) Earth Work							
Excavation		m <sup>3</sup> 1,200					Including disposal
Backfilling	Excavated sand	m <sup>3</sup> 720					
Gravel layer	150mm thick	m <sup>3</sup> 105					
Leveling concrete	50mm thick Class-F	m <sup>3</sup> 55					
Dewatering		L.S 1					
Sub total (1)							
(2) Piling Work							
Cast in situ RCC pile	ø700	m 1,696					Including materials and top reinforcement

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Sub total (2)							
(3) Reinforced Concrete Work							
Reinforcing bar	ASTM A615 Gr.40 Deformed	ton	260				Including bending, cutting and placing
Reinforced concrete	Foundation Class-D	m <sup>3</sup>	330				Including form work
Reinforced concrete	Column, beam, slab wall, Class-D	m <sup>3</sup>	1.270				Including form work
Reinforced concrete	Grade slab Class-E	m <sup>3</sup>	90				Including form work
Reinforced concrete	Equipment foundation Class-D	m <sup>3</sup>	30				Including form work
Light weight concrete		m <sup>3</sup>	20				
Sub total (3)							

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DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(4) Concrete Block Work								
Concrete hollow block	390 x 190 x 150	m <sup>2</sup>	2,770					
Precast concrete block								
Light weight concrete block for roof		m <sup>2</sup>	810					With sand cushion, elastic joint
Terrazzo bock		m <sup>2</sup>	60					Stool, partition
Coping		m	320					Balcony
Sub total (4)								
(5) Waterproofing Work								
Built-up asphalt waterproof	Class-A	m <sup>2</sup>	980					

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Built-up asphalt waterproof	Class-B	m <sup>2</sup>	280					
Caluking		m	1,770					Doors, windows, parapet and louvers.
Sub total (5)								
(6) Tile Work								
Ceramic mosaic tile		m <sup>2</sup>	180					Including mortar bed
Grazed wall tile		m <sup>2</sup>	520					Including mortar bed
Terazzo block tile floor		m <sup>2</sup>	1,870					Including base board with mortar bed
Marble tile	floor, wall fascia	m <sup>2</sup>	295					Including base board with mortar bed



DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(8) Metal Work							
Hand rail		m					Stair & roof including painting
Corner beads		m		1,000			
Steel ladder	With safety cage	m		6			With painting including anchoring
Light weight suspended ceiling		m <sup>2</sup>		1,860			
Roof drain		each		10			
Down spout		m		140			
Door sill	Stainless steel	m		55			
Steel ring		each		20			
Chain		L.S		1			For drain
Alumi. fluted sheet for ceiling		m <sup>2</sup>		170			



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DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Metal coping		m	26					For porch roof
Hand rail		m	100					Roof
Metal flush plates	Stainless steel for expansion	m	7					
Mono rails		L.S	1					
Free access floor		m <sup>2</sup>	55					
Sub total (8)								
(9) Plaster Work								
Mortar plastering for wall		m <sup>2</sup>	8,400					Ex. 2,655 In. 5,745
Mortar baseboard		m	300					
Mortar steel trowelled	With metal lath	m <sup>2</sup>	55					Roof gutter

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Mortar steel trowelled	for coping	m	180					
Mortar steel trowelled	for floor	m <sup>2</sup>	660					
Water proofed mortar steel trowelled		m <sup>2</sup>	450					Balcony
Sub total (9)								
(10) Doors, Windows, and Louvers								
Steel flush hollow core swing door	Including threshold	m <sup>2</sup>	45					With louver, glass, painting and hardwares
Wood flush hollow core swing door	Including thresh hold	m <sup>2</sup>	125					With louver, glass, painting and hardwares
Rolling door	Mortar driven	m <sup>2</sup>	10					With louver, glass, painting and hardwares
Aluminum window	with glass	m <sup>2</sup>	340					



DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(12) Interior Finish Work								
Acoustic board		m <sup>2</sup>	950					Incombustible
Polyvinyl chloride tile		m <sup>2</sup>	100					
Vinyl cloth		m <sup>2</sup>	400					
Nameplates of room		each	70					
Acid proof vinyl tile		m <sup>2</sup>	16					
Acid proof vinyl base		m	15					
Polyvinyl chloride base		m	60					
Cement asbestos flexible board		m <sup>2</sup>	470					
Non asbestos cement sheet		m <sup>2</sup>	250					
Sub total (12)								

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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(13) Ventilation & Air-conditioning work							
1. Equipment work							
Packaged air conditioner	Air cooled cooling capacity 179,000 KCAL/H Air flow: 39900CMH Comp. 83.5 Kw Fan 0.75 x 9 (OUT) 18.5 Kw (IN)	EA 1					
Packed air conditioner	Air cooled cooling capacity 80,000Kcal/H Air flow: 20050 CMH Comp. 45Kw Fan 0.3Kw x 3 (OUT) 7.5 Kw (IN)	EA 1					
Return air fan	Centrifugal multiblade Single suction #7 x 54520CMHx25mmAqx15Kw	EA 1					
Miscellaneous		L.S 1					
Sub total 1.							

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
2. Piping work							
Refrigerant pipe	Copper pipe	L.S 1					
Drain pipe (Galvanized steel pipe)	50ø - 80ø	L.S 1					
Insulation		L.S 1					
Hanger & supports		L.S 1					
Miscellaneous		L.S 1					
Sub total 2.							
3. Air duct work							
Air duct (Galvanized iron sheet)							
	#24(0.8mm)	L.S 1					



DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
4. Ventilation system								
Outside fresh air intake fan	Propeller 500ø x 3750CMH x 5mmAq x 0.4Kw	EA	4					
- do -	Propeller 400ø x 2100CMH x 5mmAq	EA	2					
- do -	Propeller 250ø x 550CMH x 5mmAq x 0.025 Kw	EA	1					
- do -	AXIAL #2 x 610 CMH x 8 mmAq x 40 w	EA	1					
Exhaust air fan	Propeller 500ø x 3750CMH x 5mmAq x 0.4 Kw	EA	4					
- do -	Propeller 400ø x 2100CMH x 5mmAq x 0.1 Kw	EA	2					
- do -	Propeller 400ø x 1800CMH x 5mmAq x 0.1 Kw	EA	1					
- do -	Propeller 300ø x 840CMH x 5mmAq x 0.05 Kw	EA	1					



DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	RS		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Exhaust air fan	Propeller 250ø x 550CMH x 5mmAq x 0.025 Kw	EA	1					
Exhaust air fan	Propeller 200ø x 250CMH x 18 w	EA	1					
Exhaust air fan	Axial #2 x 750CMH x 8mmAq x 40w	EA	1					
Exhaust air fan	Axial #2 x 680CMH x 8mmAq x 40w	EA	2					
Exhaust air fan	Axial #2 x 610CMH x 8mmAq x 40w	EA	1					
Exhaust air fan	Ceiling 150ø x 460CMH x 6mmAq x 62w	EA	1					
Exhaust air fan	Ceiling 150ø x 300CMH x 8mmAq x 46w	EA	1					
Exhaust air fan	Ceiling 150øx230CMHx7mmAqx35w	EA	2					
Exhaust air fan	Ceiling #3x1000CMHx20mmAqx270w	EA	1					
Exhaust air fan	Ceiling 150øx180CMHx8mmAqx35w	EA	2					

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Exhaust air fan	Ceiling 150øx170CMHx8mmAqx35w	EA 3					
Exhaust air fan	Ceiling 100øx150CMHx6mmAqx25w	EA 1					
Exhaust air fan	Ceiling 100øx80CMHx8mmAqx13w	EA 5					
Exhaust air fan	Range hood fan 700CMH x 3mmAq x 70W	EA 1					
Exhaust air duct (Galvanized iron sheet)							
	#25(0.6mm)	L.S 1					
	#26(0.5mm)	L.S 1					
Spiral duct		L.S 1					
Air diffuser		L.S 1					
Canvas connection		L.S 1					
Hanger & support		L.S 1					

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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Miscellaneous		L.S 1					
Sub total 4.							
5. Automatic control & secondary electrical work							
Automatic control equipment		L.S 1					
Materials of cable etc.		L.S 1					
Board		L.S 1					
Sub total 5.							
Sub total (13)							

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	RS		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(14) Water Supply, Drainage Sewage System								
1. Water supply equipment work								
Roof top water tank	Potable elevated water tank capacity : 3.0 Ton dimension 2.0mx1.5mx1.5H	EA	1					
Water supply pipe (Galvanized steel pipe)	20 - 100ø	L.S	1					
Valve		L.S	1					
Flexible joint		L.S	1					
Hanger & support		L.S	1					
Insulation		L.S	1					
Miscellaneous		L.S	1					
Sub total 1.								



DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
3. Sanitary fixture								
Water closet	Vitreous china wash down coupled w/low tank, paper holder	EA	3					
Water closet	V.C Western w/Paper holder	EA	12					
Urinal	V.C wall hanged flash valve	EA	13					
Lavatory	V.C wall hanged w/liquid soap holder, mirror	EA	20					
Shower set		EA	4					
Wall faucet		EA	2					
Garden hose cock		EA	2					
Miscellaneous		L.S	1					
Sub total 3.								

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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
4. Drainage & vent system							
Sewage pipe (Cast iron pipe)	50ø - 100ø	L.S. 1					
Drain pipe & vent pipe (Galvanized steel pipe)	40ø - 150ø	L.S. 1					
Lead pipe	50ø - 75ø	L.S. 1					
Insulation		L.S. 1					
Flower drain	FD	L.S. 1					
Clean out	CO	L.S. 1					
Hanger & supports		L.S. 1					
Soil water basin	Concrete	L.S. 1					
Rain water basin	Concrete	L.S. 1					
Miscellaneous		L.S. 1					
Sub total 4.							

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
5. Clarification tank equipment							
Clarification equipment	FRP capacity 3.0 m <sup>3</sup> BOD 60 ppm	L.S	1				
Sub total 5.							
Sub total (14)							
(15) Elevator Facilities							
Elevator facilities		L.S	1				
Sub total (15)							





DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(a) H2 Gas Generating Equipment Room							
(1) Earth Work		L.S 1					
(2) Piling Work		L.S 1					
(3) Reinforced Concrete Work		L.S 1					
(4) Structural Steel Work		L.S 1					
(5) Metal and Sheet Work		L.S 1					
(6) Plaster Work		L.S 1					
(7) Doors, Windows and Louvers		L.S 1					
(8) Painting Work		L.S 1					
(9) Drainage System		L.S 1					
Total							

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(1) Earth Work							
Excavation		m <sup>3</sup>	74				Including disposal
Backfilling	Excavated sand	m <sup>3</sup>	42				
Gravel layer	150mm thick	m <sup>3</sup>	10				
Leveling concrete	50mm thick Class-F	m <sup>3</sup>	4				
Dewatering		L.S	1				
Sub total (1)							
(2) Piling Work							
Cast in situ RCC pile	Design length ø450	m	112				Including materials, top Chipping & top reinforcement

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Sub total (2)								
(3) Reinforced Concrete Work								
Reinforcing bar	ASTM A615 Gr.40 deformed	ton	9					Including bending, cutting and placing
Reinforced concrete	Underground class-D	m <sup>3</sup>	18					Including form work
Reinforced concrete	Column wall, beam, slab class-D	m <sup>3</sup>	27					Including form work
Reinforced concrete	Slab on grade class-E	m <sup>3</sup>	10					Including form work
Sub total (3)								
(4) Structural Steel Work								

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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Structural steel		ton	2				Material & fabrication including grouting
Structural steel erection		ton	2				
Sub total (4)							
(5) Metal and Sheet Work							
Steel ladder	With safety cage	m	6				With paintings including anchoring
Trench cover and frames		L.S	1				With corner angle with painting
Embedded plates, hooks and sleeves		L.S	1				With anchoring painting
Roof drain		each	1				

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Down spout		m	9					
Corrugated asbestos sheet		m <sup>2</sup>	40					With fixtures
Gutter		m	7					
Sub total (5)								
(6) Plaster Work								
Water proof mortar steel trowelled		m <sup>2</sup>	22					
Sub total (6)								
(7) Doors, Windows, and Louvers								









DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(1) Earth Work							
Excavation		m <sup>3</sup>		270			Including disposal
Backfilling	Excavated sand	m <sup>3</sup>		140			
Grave layer	150mm thick	m <sup>3</sup>		35			
Leveling concrete	50mm thick Class-F	m <sup>3</sup>		15			
Dewatering		L.S		1			
Oil sand		m <sup>3</sup>		10			
Sub total (1)							

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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(2) Piling Work							
Cast in situ RCC pile	Design length ø 450	m	464				Including materials, top chipping & top reinforcement
Sub total (2)							
(3) Reinforced Concrete Work							
Reinforcing bar	ASTM A615 Gr.40 Deformed	ton	32				Including bending, cutting and placing
Reinforced concrete	Underground Class-D	m <sup>3</sup>	100				Including form work
Reinforced concrete	Column, wall, beam, slab Class-D	m <sup>3</sup>	70				Including form work
Reinforced concrete	Slab on grade Class-E	m <sup>3</sup>	15				Including form work

DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Reinforced concrete	Equip. foundation Class-D	m <sup>3</sup>	5					Including form work
Sub total (3)								
(4) Metal Work								
Embedded plates, hooks and sleeves		ton	1					with anchoring painting
Mono-rail	I-beam	m	20					Including painting
Hand rail		m	10					
Checkered plate		m <sup>2</sup>	1					
PVC Pipe	ø25	m	1					
Sub total (4)								



DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(c) Ware House								
(1) Earth Work		L.S	1					
(2) Piling Work		L.S	1					
(3) Reinforced Concrete Work		L.S	1					
(4) Concrete Block Work		L.S	1					
(5) Waterproofing Work		L.S	1					
(6) Metal Work		L.S	1					
(7) Plaster Work		L.S	1					
(8) Doors, Windows and Louvers		L.S	1					
(9) Painting Work		L.S	1					
(10) Ventilation System		L.S	1					
(11) Drainage System		L.S	1					



DESCRIPTION	SPECIFICATION	UNIT	QUANTITY	Rs		FC		REMARKS
				UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
(1) Earth Work								
Excavation		m <sup>3</sup>	520					Including disposal
Backfilling	Excavated sand	m <sup>3</sup>	250					
Gravel layer	150mm thick	m <sup>3</sup>	90					
Leveling concrete	50mm thick Class-F	m <sup>3</sup>	35					
Dewatering		L.S	1					
Sub total (1)								
(2) Piling Work								
Cast in situ RCC pile	Design length Ø 550	m	832					Including materials, top chipping & top reinforcement



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DESCRIPTION	SPECIFICATION	UNIT QUANTITY	Rs		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Sub total (2)							
(3) Reinforced Concrete Work							
Reinforcing bar	ASTM A615 Gr.40 Deformed	ton	85				Including bending, cutting and placing
Reinforced concrete	Underground Class-D	m <sup>3</sup>	150				Including form work
Reinforced concrete	Column, wall, beam, slab Class-D	m <sup>3</sup>	315				Including form work
Reinforced concrete	Slab on grade Class-E	m <sup>3</sup>	65				Including form work
Sub total (3)							
(4) Concrete Block Work							
Concrete hollow block	390 x 190 x 150	m <sup>2</sup>	660				

DESCRIPTION	SPECIFICATION	UNIT QUANTITY	RS		FC		REMARKS
			UNIT-PRICE	AMOUNT	UNIT-PRICE	AMOUNT	
Precast concrete block							
Light weight concrete block for roof		m <sup>2</sup>		500			with sand cushion, elastic joint
Sub total (4)							
(5) Waterproofing Work							
Built-up asphalt waterproof	Class-A	m <sup>2</sup>		540			
Caulking		m		330			Doors, windows, parapet louvers
Sub total (5)							