



Bharat Heavy Electricals Limited

(A Government of India Undertaking)

Power Sector – Eastern Region

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TENDER CHANGE NOTE 02 (TCN – 02) DT: 29-08-2007

WITH REFERENCE TO THE NIT, PUBLISHED IN THE WEB SITES FOR THE WORK OF ERECTION AND COMMISSIONING OF U#1 & U#2 BOILER, ROTATING MACHINES AND DUCT, ESP, CRITICAL PIPING, MICS. PIPING ETC. ALONG WITH MATERIAL UNLOADING, HANDLING AND MATERIAL MANAGEMENT OF COMPLETE PLANT MATERIAL OF BOTH THE UNITS. AGAINST TENDER DOCUMENT NO PSER:SCT:MJA-B 779:07, FOLLOWING CHANGES MAY PLEASE BE NOTED AND COMPLIED.

SL. NO.	CLAUSE NO.	AS IT IS	AS IT SHOULD BE
01	VOL.ID – SCC : PACKAGE–A & PACKAGE–B: CLAUSE NO. 22.0	MOBILISATION ADVANCE :	PROVISION OF MOBILISATION ADVANCE IS NOT APPLICABLE FOR THIS CONTRACT AND IS WITHDRAWN. ACCORDINGLY, CLAUSE NO. 22.1, 22.2, 22.3, 22.4 STANDS DELETED. OTHER SECTIONS OF THIS TENDER SHOULD BE READ ACCORDINGLY.
02	VOL.ID – SCC : PACKAGE–A & PACKAGE–B: CLAUSE NO. 16.0	TERMS OF PAYMENT:	Refer to APPENDIX of TCN-02 separately for Package-A & Annex – Package – B

BIDDERS ARE REQUESTED TO SUBMIT OFFER BY THE EXTENDED DUE DATE OF SUBMISSION OF OFFER i.e. 03-09-07(15=00 Hrs).

ALL OTHER TERMS & CONDITIONS OF THE TENDER SHALL REMAIN UNCHANGED.

SR MANAGER (SCT)

APENDIX of TCN-02

PACKAGE A

16.0	TERMS OF PAYMENT(R 01)				
16.1	The contractor should submit his monthly on account bills with all the details required by BHEL on specified date every month covering progress of work in all respects and areas from the 25 th of previous calendar month to 24 th of the current month.				
16.2	As regards mode of payment and measurement of the work completed, relevant clauses of GCC shall be referred to.				
16.3	The payment for running bills will normally be released within 30 days of submission of running bill. Contractor shall make his own arrangement for making payment of impending labour wages and other dues in the meanwhile.				
16.4	STAGES OF PROGRESSIVE PRO-RATA PAYMENTS				
16.4.1	0.5% of the awarded value – on start of Boiler erection and deployment of 1 no. 75T crane and 1 no. 10T/12 T/14T crane in working condition.				
16.4.2	0.5% of the awarded value – on start of ESP erection and deployment of 1 no. 18T/25T crane in working condition.				
16.4.3	BALANCE 99% SHALL BE PAID AS BELOW –				
16.4.3 A	Boiler and it's auxiliaries {applicable for sl. Nos. 1 to 4 i.e. Group I to Group IV of volume-III (Package-A) price schedule}. The quoted rates per MT for different groups shall be distributed in the following manner for releasing payments against RA bills:				
	Stages of payment	Group-I Pr parts	Group-II Integral / Trim piping	Group-III Non-pr parts	Group-IV Rotating machines
16.4.3.A.1	Completion of pre-assembly	15%	----	15%	----
16.4.3.A.2	Placement in position	25%	35%	25%	40%
16.4.3.A.3	Alignment, grouting & welding including bolting as required	35%	35%	40%	35%
16.4.3.A.4	Completion of non destructive examination & stress relieving/ heat treatment	10%	10%	----	----
16.4.3.A.5	Bolting & completion hangers & supports etc wherever necessary	----	10%	06%	10%
16.4.3.A.6	Completion of hydraulic test (drainable)	02%	03%	----	----
16.4.3.A.7	Completion of air & gas tightness test for equipment	----	----	01%	----
16.4.3.A.8	Boiler light up and ABO	02%	----	01%	03%
16.4.3.A.9	Completion of acid/ EDTA cleaniiing	02%	----	02%	----
16.4.3.A.10	On completion of steam blowing & Safety Valve floating	02%	----	----	----
16.4.3. A.11	Coal firing	01%	----	02%	04%
16.4.3. A.12	Full loading	--	----	03%	03%
16.4.3.A.13	Submission of as-built drawings	01%	02%	NA	NA
16.4.3.A.14	Liquidation of pending points	02%	02%	02%	02%
16.4.3.A.15	Reconciliation of issued materials	01%	01%	01%	01%
16.4.3.A.16	Completion of all contractual	01%	01%	01%	01%

	Obligation and de mobilization of site office.				
16.4.3.A.17	TOTAL	99%	99%	99%	99%

16.4.3.B) The quoted rates per MT of ESP group(Group V) shall be distributed in the following manner for releasing payments against RA bills:

The quoted / awarded rate per MT shall be released on pro-rata basis as per the following distribution

i)	Pre-assembly and Erection	-	15 %.
		-	20%, if pre-assembly is involved
or			
	Direct erection	-	35 %.
ii)	Alignment, bolting, welding	-	40 %.
iii)	Gas tightness test of ESP	-	5 %.
iv)	Gas distribution test of ESP	-	2 %.
v)	Comm. of collecting rapping sys	-	2 %.
vi)	Comm. of emitting rapp.Sys.	-	2 %.
vii)	Charging of all fields of ESP	-	2 %.
viii)	Light-up of the Unit	-	2 %.
ix)	Coal firing of the Unit	-	3 %.
x)	Full Load of the Unit	-	2 %
xi)	Liquidation of I pending points	-	2 %
xii)	Reconciliation of issued material	-	1 %
xiii)	Site Demobilisation	-	1 %.

	TOTAL	-	99 %

16.4.3 C) Stages of Progressive Pro-Rata Payments of Piping Group (Group VI)

99 % PAYMENT BREAK UP

SL NO	STAGES OF PAYMENT	PIPINGS AND VALVES ETC. (SI. No. 6.1, 6.2, 6.3, 6.5, 6.6)	STRUCTURES, HANGERS, PLATFORMS ETC. (SI. No. 6.4, 6.7 & 6.8).
A	Completion of Pre-assembly	15 %	----
B	Placement in Position	25 %	50 %

D	Completion of non destructive examination & stress relieving / heat treatment	10 %	----
E	Completion of Hydraulic test(drainable)	04 %	----
F	Pre-Boiler System Flushing/chemical cleaning	01 %	----
G	Boiler light up and ABO	01 %	01 %
H	Completion of steam blowing	01 %	---
J	Hot correction of hangers	01 %	02 %
K	COAL FIRING	01 %	01 %
L	FULL LOADING	01 %	01 %
M	Submission of As-built drawings	01 %	01 %
N	Liquidation of pending points	01 %	01 %
O	Reconciliation of issued materials	01 %	01 %
P	Completion of all contractual Obligation and de mobilization of site office.	01 %	01 %
TOTAL		99 %	99 %

16.4.3.D	Stages of Progressive Pro-Rata Payments of PG Test assistance	99% break up
Sl no of rate schedule	Description of activity	% of payment
7.0	On completion of the PG test of the unit which is to be certified by the BHEL Engineer	99%
16.4.3.E	Stages Of Progressive Pro-Rata Payments of Boiler unloading (Sl. No. 8.0 of Price schedule , Vol-III)	99% break up
Sl no of rate schedule	Description of activity	% of payment
8.0	<ul style="list-style-type: none"> • Unloading from railway wagon • Shifting to the boiler area 	50% 49%

16.5	In case the PG Test assistance is not required, the payment towards this will not be considered.
16.6	Out of above break up for progressive payment, 5% will be retained from each RA bill which will be released on completion of guarantee period. However, this 5% payment can be released against submission of performance bank guarantee valid for the guarantee period as stated above in prescribed proforma subject to receipt of certificate that all works are completed in all respects. The submission of bank guarantee towards performance guarantee is separate and the bank guarantee towards security deposit cannot be utilized for this purpose. The security deposit will be refunded as per GCC.
16.7	BHEL at their discretion, may further split up the above percentages and effect payment to suit the site condition, cash flow requirement and according to the progress of work.

PACKAGE B

16.0	TERMS OF PAYMENT(R 01)				
16.1	The contractor should submit his monthly on account bills with all the details required by BHEL on specified date every month covering progress of work in all respects and areas from the 25 th of previous calendar month to 24 th of the current month.				
16.2	As regards mode of payment and measurement of the work completed, relevant clauses of GCC shall be referred to.				
16.3	The payment for running bills will normally be released within 30 days of submission of running bill. Contractor shall make his own arrangement for making payment of impending labour wages and other dues in the meanwhile.				
16.4	STAGES OF PROGRESSIVE PRO-RATA PAYMENTS				
16.4.1	0.5% of the awarded value of Part 'A' – on start of Boiler erection and deployment of 1 no. 75T crane and 1 no. 10T/12 T/14T crane in working condition.				
16.4.2	0.5% of the awarded value of Part 'A' – on start of ESP erection and deployment of 1 no. 18T/25T crane in working condition.				
16.4.3	1% of the awarded value of Part 'B' – on start of Material handling and deployment of 1 no. 40T crane in working condition.				
16.4.4	BALANCE 99% SHALL BE PAID AS BELOW –				
16.4.4.A	Boiler and it's auxiliaries (applicable for sl. Nos. Group I to Group IV of volume-III, price schedule – Part-A). The quoted rates per MT for different groups shall be distributed in the following manner for releasing payments against RA bills:				
	Stages of payment	Group-I Pr parts	Group-II Integral/ trim piping	Group-III Non-pr parts	Group-IV Rotating machines
16.4.4.A.1	Completion of pre-assembly	15%	----	15%	----
16.4.4.A.2	Placement in position	25%	35%	25%	40%
16.4.4.A.3	Alignment, grouting & welding including bolting as required	35%	35%	40%	35%
16.4.4.A.4	Completion of non destructive examination & stress relieving/ heat treatment	10%	10%	----	----
16.4.4.A.5	Bolting & completion hangers & supports etc wherever necessary	----	10%	06%	10%
16.4.4.A.6	Completion of hydraulic test (drainable)	02%	03%	----	----
16.4.4.A.7	Completion of air & gas tightness test for equipment	----	----	01%	----
16.4.4.A.8	Boiler light up and ABO	02%	----	01%	03%
16.4.4.A.9	Completion of acid/ EDTA cleaninig	02%	----	02%	----
16.4.4.A.10	On completion of steam blowing & Safety Valve floating	02%	----	----	----
16.4.4.A.11	Coal firing	01%	----	02%	04%
16.4.4.A.12	Full loading	--	----	03%	03%
16.4.4.A.13	Submission of as-built drawings	01%	02%	NA	NA
16.4.4.A.14	Liquidation of pending points	02%	02%	02%	02%
16.4.4.A.15	Reconciliation of issued materials	01%	01%	01%	01%
16.4.4.A.16	Completion of all contractual Obligation and de mobilization of site office.	01%	01%	01%	01%
16.4.4.A.17	TOTAL	99%	99%	99%	99%

16.4.4. B)	The quoted rates per MT of ESP group(Group V of Part A) shall be distributed in the following manner for releasing payments against RA bills:		
	The quoted / awarded rate per MT shall be released on pro-rata basis as per the following distribution		
i)	Pre-assembly and Erection	-	15 %.
		-	20%, if pre-assembly is involved
	or		
	Direct erection	-	35 %.
ii)	Alignment, bolting, welding	-	40 %.
iii)	Gas tightness test of ESP	-	5 %.
iv)	Gas distribution test of ESP	-	2 %.
v)	Comm. of collecting rapping sys	-	2 %.
vi)	Comm. of emitting rapping Sys.	-	2 %.
vii)	Charging of all fields of ESP	-	2 %.
viii)	Light-up of the Unit	-	2 %.
ix)	Coal firing of the Unit	-	3 %.
x)	Full Load of the Unit	-	2 %
xi)	Liquidation of I pending points	-	2 %
xii)	Reconciliation of issued material	-	1 %
xiii)	Site Demobilisation	-	1 %.

	TOTAL	-	99 %

16.4.4 C) Stages Of Progressive Pro-Rata Payments of Piping Group (Group VI of Part A)

99 % PAYMENT BREAK UP

SL NO	STAGES OF PAYMENT	PIPINGS AND VALVES ETC. (Sl. No. 6.1, 6.2, 6.3, 6.5, 6.6)	STRUCTURES, HANGERS, PLATFORMS ETC. (Sl. No. 6.4, 6.7 & 6.8).
A	Completion of Pre-assembly	15%	----
B	Placement in Position	25%	50%
C	Alignment, welding, grouting & bolting as required	35%	40%
D	Completion of non destructive examination & stress relieving / heat treatment	10%	----
E	Completion of Hydraulic test(drainable)	04%	----
F	Pre-Boiler System Flushing/chemical cleaning	01%	----
G	Boiler light up and ABO	01%	01%
H	Completion of steam blowing	01%	---
J	Hot correction of hangers	01%	02%
K	COAL FIRING	01%	01%

L	FULL LOADING	01%	01%
M	Submission of As-built drawings	01%	01%
N	Liquidation of pending points	01%	01%
O	Reconciliation of issued materials	01%	01%
P	Completion of all contractual Obligation and de mobilization of site office.	01%	01%
TOTAL		99%	99%

16.4.4.D	Stages of Progressive Pro-Rata Payments of PG Test assistance	99% break up
Sl no of rate schedule	Description of activity	% of payment
7.0 of Part A	On completion of the PG test of the unit which is to be certified by the BHEL Engineer	99%

16.4.4.E	Stages of Progressive Pro-Rata Payments of Material handling and management	99% break up
Sl no of rate schedule	Description of activity	% of payment
1.0 of Part-B	<ul style="list-style-type: none"> • Unloading from railway wagon • Shifting to the boiler area 	50% 49%
2.1 of Part-B	<ul style="list-style-type: none"> • Unloading, re-loading, transporting, unloading to open/ covered stores. • Stacking. • Verification. • Issue of material to erection agency after identification of location. • Updation of store documents (both hard & soft). 	20% 30% 14% 25% 10%
2.2 & 2.3 of Part-B	<ul style="list-style-type: none"> • Unloading, re-loading, transportation to site and unloading at designated place. • Stacking. • Verification. • Issue of material to erection agency after identification of location. • Updation of store documents (both hard & soft). 	20% 30% 14% 25% 10%
3.0 of Part-B	Material re-shifting	99%
4.0 of Part-B	material re-stacking	99%
5.0 of Part-B	preservation	99%
16.5	In case the PG Test assistance is not required, the payment towards this will not be considered.	
16.6	Out of above break up for progressive payment, 5% will be retained from each RA bill which will be released on completion of guarantee period. However, this 5% payment can be released against submission of performance bank guarantee valid for the guarantee period as stated above in prescribed proforma subject to receipt of certificate that all works are completed in all respects. The submission of bank guarantee towards performance guarantee is separate and the bank guarantee towards security deposit cannot be utilized for this purpose. The security deposit will be refunded as per GCC.	
16.7	BHEL at their discretion, may further split up the above percentages and effect payment to suit the site condition, cash flow requirement and according to the progress of work.	