



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 16

Ref: PSER:SCT:SDG-C2063:TCN-16

Date: 25-09-2020

Sub	Tender Change Notice (TCN) - 16	
Job	Civil, Structural & Architectural works for coal handling plant & ash handling plant except piling of 1 x 660 MW Unit-V, Sagardighi TPP extension.	
Ref	1.0	Tender no: PSER:SCT:SDG-C2063:20
	2.0	BHEL's NIT, vide reference no: PSER:SCT:SDG-C2063:8064, Date: 22-07-2020.
	3.0	BHEL's TCN- 01, vide ref. no. PSER:SCT:SDG-C2063:TCN-01, Date: 06-08-2020.
	4.0	BHEL's TCN- 02, vide ref. no. PSER:SCT:SDG-C2063:TCN-02, Date: 10-08-2020.
	5.0	BHEL's TCN- 03, vide ref. no. PSER:SCT:SDG-C2063:TCN-03, Date: 12-08-2020.
	6.0	BHEL's TCN- 04, vide ref. no. PSER:SCT:SDG-C2063:TCN-04, Date: 17-08-2020.
	7.0	BHEL's TCN- 05, vide ref. no. PSER:SCT:SDG-C2063:TCN-05, Date: 21-08-2020.
	8.0	BHEL's TCN- 06, vide ref. no. PSER:SCT:SDG-C2063:TCN-06, Date: 22-08-2020.
	9.0	BHEL's TCN- 07, vide ref. no. PSER:SCT:SDG-C2063:TCN-07, Date: 26-08-2020.
	10.0	BHEL's TCN- 08, vide ref. no. PSER:SCT:SDG-C2063:TCN-08, Date: 01-09-2020.
	11.0	BHEL's TCN- 09, vide ref. no. PSER:SCT:SDG-C2063:TCN-09, Date: 05-09-2020.
	12.0	BHEL's TCN- 10, vide ref. no. PSER:SCT:SDG-C2063:TCN-10, Date: 10-09-2020.
	13.0	BHEL's TCN- 11, vide ref. no. PSER:SCT:SDG-C2063:TCN-11, Date: 17-09-2020.
	14.0	BHEL's TCN- 12, vide ref. no. PSER:SCT:SDG-C2063:TCN-12, Date: 18-09-2020.
	15.0	BHEL's TCN- 13, vide ref. no. PSER:SCT:SDG-C2063:TCN-13, Date: 21-09-2020.
	16.0	BHEL's TCN- 14, vide ref. no. PSER:SCT:SDG-C2063:TCN-14, Date: 22-09-2020.
	17.0	BHEL's TCN- 15, vide ref. no. PSER:SCT:SDG-C2063:TCN-15, Date: 24-09-2020.
	18.0	All other pertinent issues till date.

With reference to above, following points/documents, relevant to tender, may please be noted and complied with while submitting the offer

1. Clarifications to bidder's query is attached vide Annexure-A to this TCN-16.
2. Introduction of Drawings- Conveyor Profile for all conveyors (IS-DG-445-101-A004, REV R0) to VOL-IF, are attached for tender purpose only.
3. Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
4. All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

Dy.Mgr (SCT)

Encl: As Above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SECTOR-II, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : (033) 2339-8000/ 2339 8231

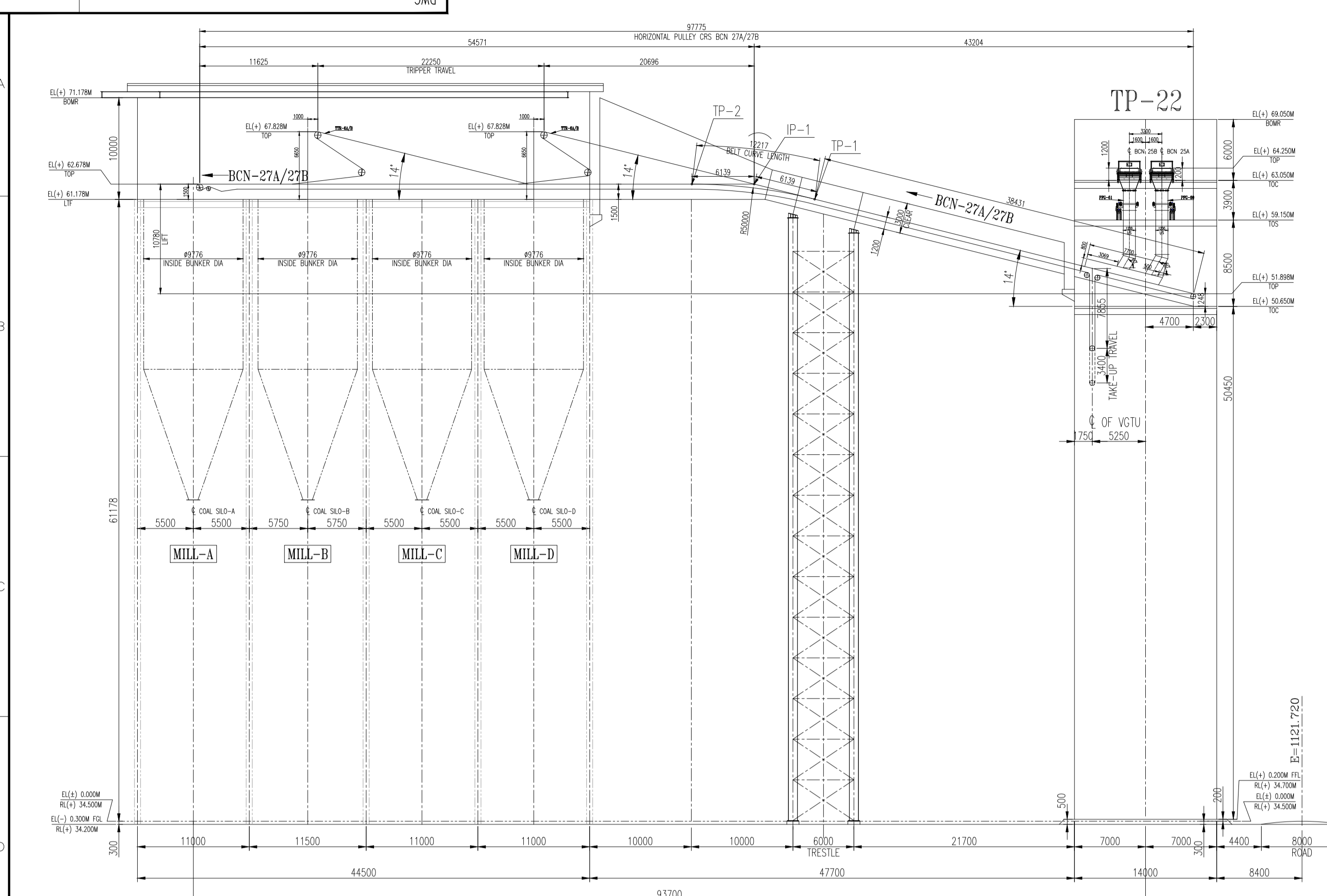
Civil, Structural & Architectural works for coal handling plant & ash handling plant except piling of 1 x 660 MW Unit-V, Sagardighi TPP extension.

TENDER NO - PSER:SCT:SDG-C2063:20 ANNEXURE-A (TCN-16)

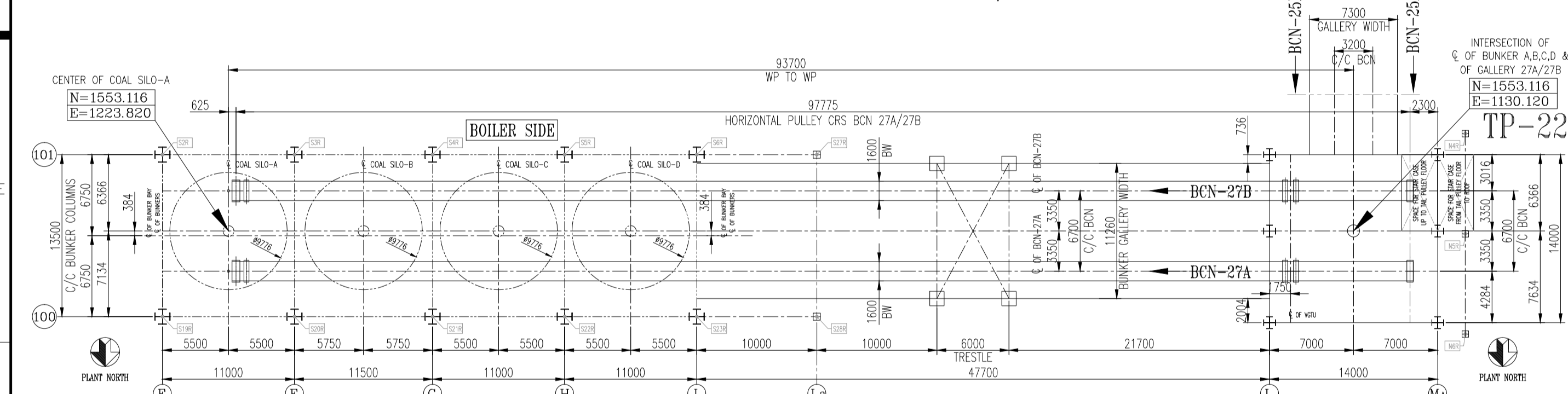
CLARIFICATION OF BIDDER'S QUERY

SL. NO.	Ref. Tender Clause No.	Existing Provision	Bidders Queries	BHEL Reply
1	ST NO. 217A OF PRICE SCHEDULE	Extra over and above St No 216 for cutting of reinforcement, all sizes and types including labour, equipment, return of cut reinforcement to store etc all complete as per specification, drawings and instructions of engineer in charge. Measurement shall be on the cross sectional area of reinforcement cut.	St No 216 is not in the Volume - III, Price Schedule, Rev-00, Sch-3 Service.	Bidders are requested to Refer VOL-III-Price Schedule - REV-02 issued alongwith TCN- 15
2	ST NO. 906 OF PRICE SCHEDULE	Providing and fixing anodized extruded aluminium doors (single or double shutter) conforming to IS:1948, IS:1949 fabricated from extruded sections of HINDALCO/JINDAL or equivalent make having minimum 3mm wall thickness as per IS:1285, IS:733 Glazing shall be clear float glass of 6mm thickness including snap fit type beading, concealed screws, fixtures, Godrej or equivalent make Mortice lock with handle on both sides, etc. all complete. Aluminium section shall be smooth, free of stains, straight, mitred & jointed mechanically wherever required. (Glazing shall be paid separately)	No separate item of clear float glass of 6mm thickness is available in the price schedule.	Bidders are requested to Refer VOL-III-Price Schedule - REV-02 issued alongwith TCN- 15
3	ST NO. 1204 OF PRICE SCHEDULE	Providing 6mm thick plaster on ceiling in cement mortar 1:4 finished to a smooth all complete.	Is there any word after smooth.	Bidders are requested to Refer VOL-III-Price Schedule - REV-02 issued alongwith TCN- 15
4	ST NO. 1204 OF PRICE SCHEDULE	Providing and laying 50 mm thick heavy duty cement concrete in flooring with metallic hardener pigmented topping 12mm thick uniform graded treated iron particles in flooring. Under layer of 38mm thick cement concrete mix 1:2:4 aluminium strips etc. all complete for following (Quoted item rate shall be inclusive of providing glass joint strips):	Aluminium strips or glass strips, which will be used, please inform.	Bidders are requested to Refer VOL-III-Price Schedule - REV-02 issued alongwith TCN- 15
5	ST NO. 2114 OF PRICE SCHEDULE	Providing & fixing in position P.V.C. water tank of Syntex or approved equivalent including making all necessary inlet & outlet pipes, fixture, ball cocks, valves etc all complete for following capacities. GI pipes shall be paid separately under ST No. 2105.	ST No. 2105 is not available in the price schedule.	Bidders are requested to Refer VOL-III-Price Schedule - REV-02 issued alongwith TCN- 15
6	Break-up of Payment for Structural Steel Fabrication and Erection Items	Not found provision in tender document.	We would request for payment break-up of structural steel work as follows – a) 70% on Fabrication, b) 20% on Erection and c) 10% on alignment and final welding.	Bidders are requested to Refer VOL-III-Price Schedule - REV-02 issued alongwith TCN- 15
7	Taxes & Duties (Cl 43 of TCC, Pg 31-32 of 41)	All taxes excluding GST but including BOCW and other statutory Charges, Royalties, any State or Central Levy and other taxes for materials if any obtained for the work and for execution of the contract shall be borne by successful bidder and shall not be payable extra by BHEL. Any increase of above at any stage during execution of contract, including extension of the contract, shall have to be borne by successful bidder contractor. Bidder's quoted/ accepted rates/ price shall be inclusive of all such requirements. Benefits and / or abolition of existing taxes must be passed on to BHEL against new taxes, if any, proposed to be introduced at a later date.	We would request you to compensate for any variation in existing taxes and / or for introduction of any new taxes during execution of contract.	Bidders are requested to Refer Volume-IF-TCC-CML-Rev-01 issued alongwith TCN-15

Civil, Structural & Architectural works for coal handling plant & ash handling plant except piling of 1 x 660 MW Unit-V, Sagardighi TPP extension.				
TENDER NO - PSER:SCT:SDG-C2063:20 ANNEXURE-A (TCN-16)				
CLARIFICATION OF BIDDER'S QUERY				
SL. NO.	Ref. Tender Clause No.	Existing Provision	Bidders Queries	BHEL Reply
8	General		Request to share following documents 1. Drawings of following structures (Only plant layout drawing shared) : 2. Coal handling conveyors / Transfer towers / Process building 3. Ash handling and disposal conveyor / Transfer towers / Process building 4. Wagon tippler 5. MCC building 6 Tunnel 7. Crusher house	Drawings are attached alongwith this TCN-16 for general guidance about the system. RFC drgs shall be provided time to time progressively after finalization of Engineering during execution of contract.
9	General		Please clarify scope matrix for cranes and other P&M. As discussed, tender document mentions of both conditions: i. All P&M in scope of bidder (List of P&M provided with milestone dates of mobilization in tender document) ii. P&M deployed by BHEL (operator and maintenance charges in bidder's scope)	Bidders are requested to Refer Volume-IF-TCC-CML-Rev-01 issued alongwith TCN-15
10	General		Please confirm stage payment for fabrication and erection. Please note same is not mentioned neither in tender document nor in Pre-bid queries	Bidders are requested to Refer VOL-III-Price Schedule - REV-02 issued alongwith TCN- 15

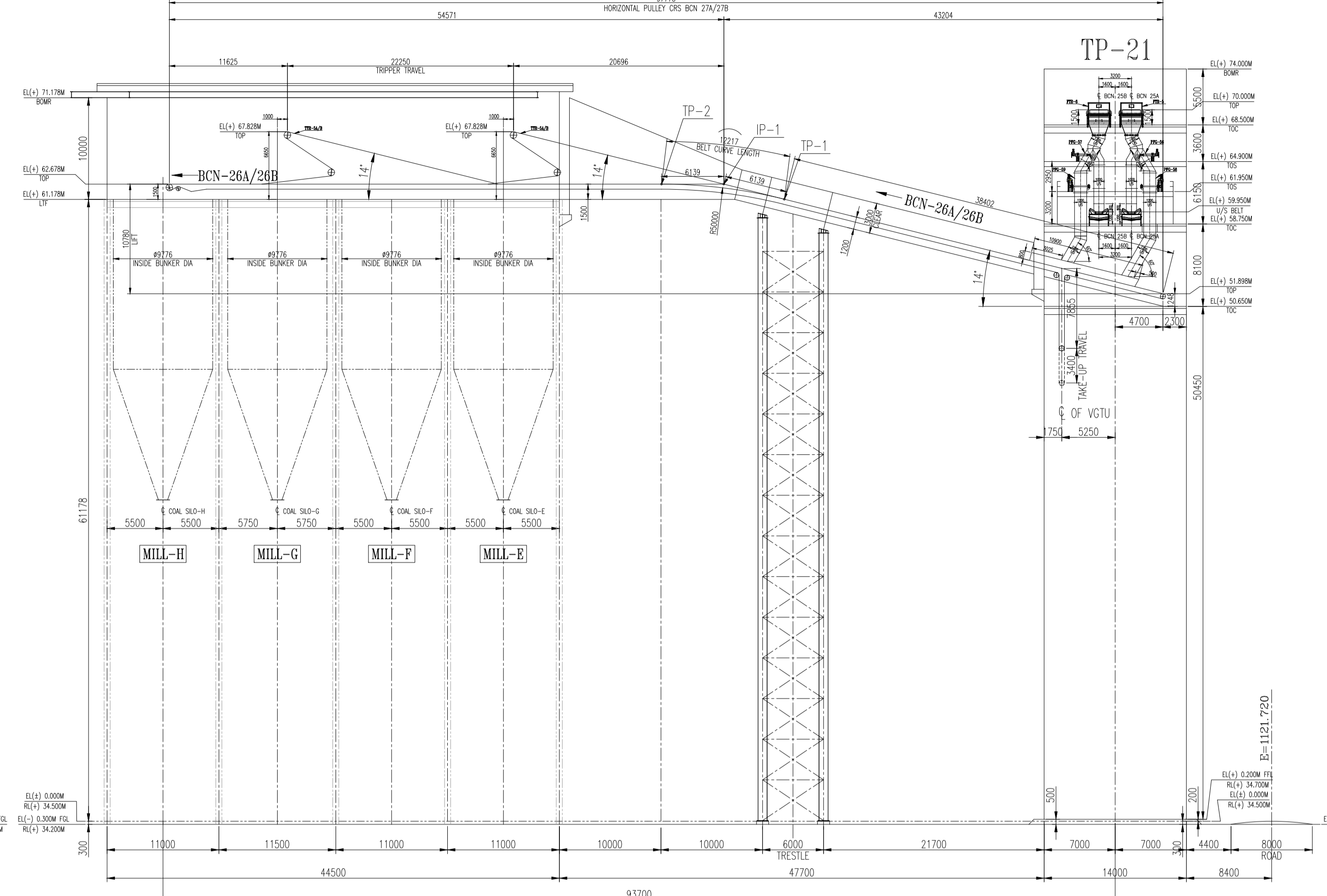


PROFILE ELEVATION OF BCN 27A/27B

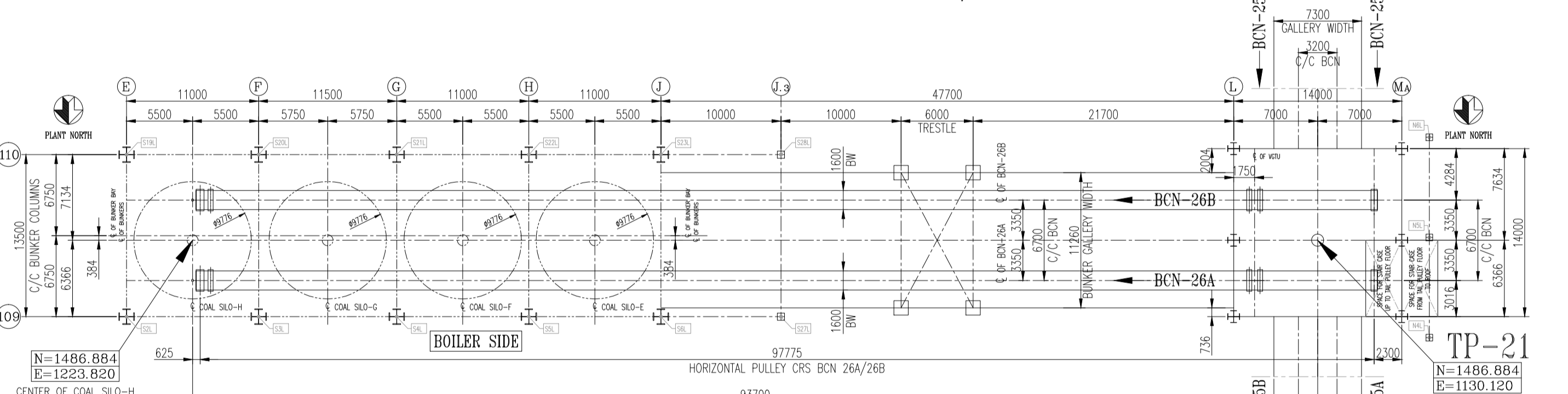


PLAN OF BCN 27A/27B

- GENERAL NOTES:-**
- 1) ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
 - 2) ALL ELEVATIONS ARE REFERRED TO POWER HOUSE FINISHED FLOOR EL (+)0.00M, WHICH CORRESPONDS TO RL 34.5M ABOVE MSL.
 - 3) ALL CIVIL/STRUCTURAL/ELECTRICAL/FIRE FIGHTING/UTILITY ARRANGEMENT SHOWN HERE ARE INDICATIVE ONLY. FOR ANY FURTHER INFORMATION, REFER RESPECTIVE CIVIL/STRUCTURAL/ELECTRICAL/FIRE FIGHTING/UTILITY DRAWINGS.
 - 4) FOR LOCATION OF CONV. POST ALONG THE CONVEYOR REFER C.A DRAWING.
 - 5) FOR GROUND CONV. SLOPE 1:100 SHALL BE PROVIDED AT EITHER SIDE FROM CENTER.
 - 6) CROSSOVER SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 100M C/C.
 - 7) MIN. 8 M CLEARANCE SHALL BE CONSIDERED AT ROAD.
 - 8) THE RAIL CROSSING CLEARANCE SHALL BE AS PER THE REQUIREMENT OF INDIAN RAILWAYS.
 - 9) WALKWAY PORTION OF OVER GROUND CONVEYOR GALLERIES SHALL BE OF MINIMUM 6 O/P CHEQUERED PLATE CONSTRUCTION WITH ANTI-SKID STEEL BARS (10 mm) @ 500 mm ALONG THE LENGTH OF GALLERY BELOW 8 DEGREE INCLINATION OF CONVEYOR GALLERY. FOR INCLINATION MORE THAN 8 DEGREE, CHEQUERED PLATE STEPS SHALL BE PROVIDED.
 - 10) RCC STEPS SHALL BE PROVIDED WHERE THE INCLINATION IS MORE THAN 8 DEGREE INSIDE PORTION OF TUNNEL. THE RISERS FOR WALKWAY STEPS SHALL NOT EXCEED 150mm.
 - 11) TOP OF BELT SHALL BE 1200MM (MIN.), HOWEVER RESTRICTED TO 1450MM FOR EASY ACCESSIBILITY FROM WALKWAY FOR MAINTENANCE.
 - 12) * MARK DIMENSIONS SUBJECT TO CHANGE DURING DETAIL ENGG.
- LEGENDS:-**
- FGL - FINISHED GRADED LEVEL
FFL - FINISHED FLOOR LEVEL
TOS - TOP OF STEEL
TOP - TOP OF PULLEY
BOP - BOTTOM OF PULLEY
TP - TANGENT POINT
IP - INTERSECTION POINT
WP - WORKING POINT
RL - REFERENCE LEVEL
EL - ELEVATION LEVEL
BOMR - BOTTOM OF MONORAIL
CRS - CROSS SECTION
HLS CRS - HOLES CROSS SECTION
I/S - INSIDE
CL - CENTER LINE
C/C - CENTER TO CENTER
B/W - BELT WIDTH
BCN - BELT CONVEYOR
TTR - TRAVELING TRIPPER
FTR - FIXED TRIPPER
CSU - COAL SAMPLING UNIT
ILMS - INLINE MAGNETIC SEPARATOR
MD - METAL DETECTOR
- BW - BELT WEAHER
SM - SUSPENDED MAGNET
EL - ELEVATOR
TP - TRANSFER TOWER
PH - PENT HOUSE
CRH - CRUSHER HOUSE NEW
WT - WAGON TIPPILER
WTH - WAGON TIPPILER HOPPER
WTC - WAGON TIPPILER COMPLEX
SAC - SIDE ARM CHARGER
AF - APRON FEEDER
DF - DRIBBLE FEEDER
PFG - PNEUMATIC FLAP GATE
RG - ROD GATE
RPG - RACK & PINION GATE
CR - CRUSHER
RS - ROLLING SCREEN
VGTU - VERTICAL GRAVITY TAKE-UP UNIT
HGTU - HORIZONTAL GRAVITY TAKE-UP UNIT
LTF - LEVEL OF TOP FLOOR
LOF - ELEVATION OF BUNKER
OUTLET FLANGE
EOT - ELECTRIC OVERHEAD TRAVELING CRANE
- REF. DRG:-**
- 1) FLOW DIAGRAM FOR COAL HANDLING PLANT_BHEL DRG. NO.: IS-DG-445-100-A001.
 - 2) LAYOUT OF COAL HANDLING PLANT_BHEL DRG. NO.: IS-DG-445-100-A002.
 - 3) TYPICAL CROSS SECTION OF GALLERY & TUNNEL_BHEL DRG. NO.: IS-DG-445-101-A003.
 - 4) BUNKER SIZING CALCULATION_BHEL DRG. NO.: PE-DC-445-161-A001-R1.
 - 5) DESIGN MEMORANDUM FOR CHP_BHEL DRG. NO.: IS-DG-445-101-A005.
 - 6) GA & LOAD DATA OF TP-19_MBE DRG. NO.: 1-PM07-DS00-1-0016-R3.
 - 7) GA OF COAL STOCKYARD WITH DRIVE HOUSE_MBE DRG. NO.: 1-PM07-DS00-1-0009-R4.
 - 8) PLOT PLAN SAGARDIGHI_BHEL DRG. NO.: PE-DG-445-100-M001-R1.






PROFILE ELEVATION OF BCN 26A/26B

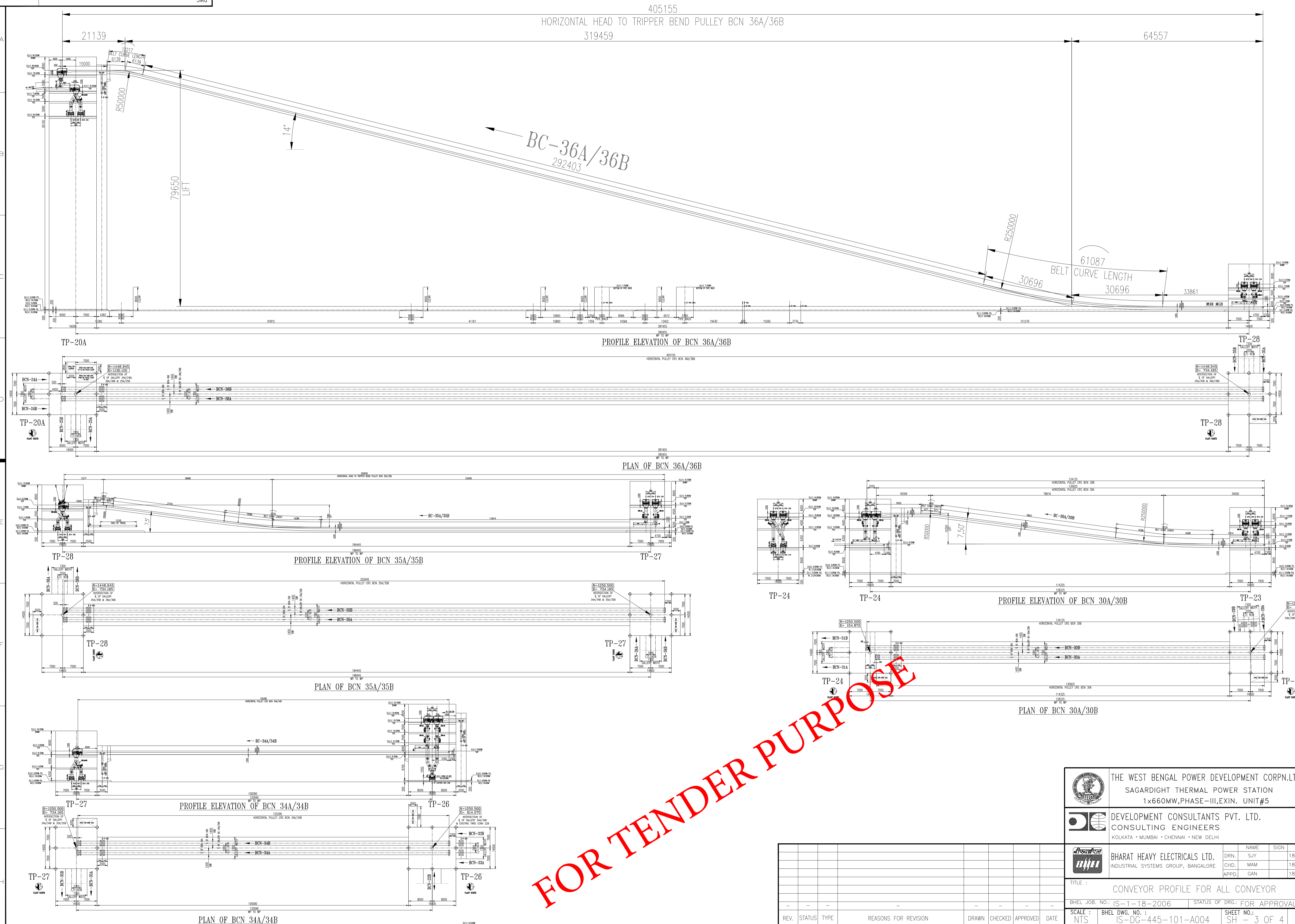


PLAN OF BCN 26A/26B

FOR TENDER PURPOSE

	THE WEST BENGAL POWER DEVELOPMENT CORPN.LTD, SAGARDIGHT THERMAL POWER STATION 1x660MW,PHASE-III,EXIN. UNIT#5															
	DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS KOLKATA • MUMBAI • CHENNAI • NEW DELHI															
	BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE		<table><tr><td>NAME</td><td>SIGN</td><td>DATE</td></tr><tr><td>DRNL S.J.Y</td><td></td><td>18.06.21</td></tr><tr><td>CHD. MAM</td><td></td><td>18.06.21</td></tr><tr><td>APPD. GAN</td><td></td><td>18.06.21</td></tr></table>		NAME	SIGN	DATE	DRNL S.J.Y		18.06.21	CHD. MAM		18.06.21	APPD. GAN		18.06.21
NAME	SIGN	DATE														
DRNL S.J.Y		18.06.21														
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APPD. GAN		18.06.21														
TITLE : CONVEYOR PROFILE FOR ALL CONVEYOR																
BHEL JOB. NO.: IS-1-18-2006		STATUS OF DRG.: FOR APPROVAL														
SCALE : NIS	BHEL DWG. NO. : IS-DG-445-101-A004	SHEET NO.: SH - 1 OF 4		REV. RO												

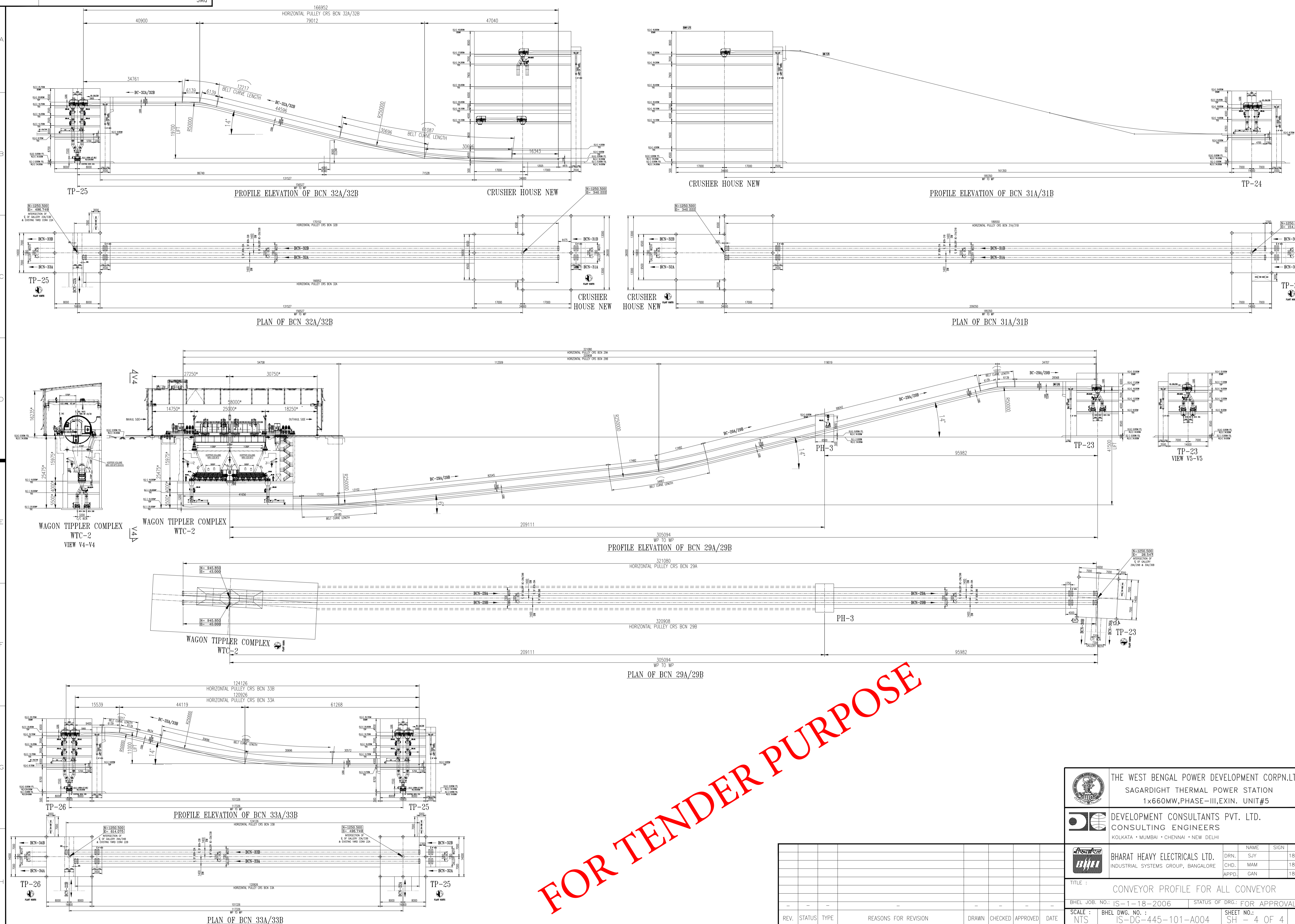
REV.	STATUS	TYPE	REASONS FOR REVISION	DRAWN	CHECKED	APPROVED	DATE
-	-	-	-	-	-	-	-



FOR TENDER PURPOSE

	THE WEST BENGAL POWER DEVELOPMENT CORPN. LTD., SAGARDIGHT THERMAL POWER STATION 1x660MW, PHASE-III, EXIN. UNIT#5		
	 DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS KOLKATA • MUMBAI • CHENNAI • NEW DELHI		
	BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE		
	DRN. S.J.Y	SIGN. MAM	DATE. 18.06.20
TITLE : CONVEYOR PROFILE FOR ALL CONVEYOR			
BHJL JOB. NO.: IS-1-18-2006 STATUS OF DRG.: FOR APPROVAL			
SCALE : NTS		SHEET NO.: SH - 3 OF 4	
REV. STATUS		REV. R0	

REV.	STATUS	TYPE	REASONS FOR REVISION	DRAWN	CHECKED	APPROVED	DATE
-	-	-	-	-	-	-	-



FOR TENDER PURPOSE

	THE WEST BENGAL POWER DEVELOPMENT CORPN.LTD, SAGARDIGHT THERMAL POWER STATION 1x660MW,PHASE-III,EXIN. UNIT#5
	DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS KOLKATA • MUMBAI • CHENNAI • NEW DELHI
	BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE
TITLE : CONVEYOR PROFILE FOR ALL CONVEYOR	
BHJL JOB. NO.: IS-1-18-2006 STATUS OF DRG.: FOR APPROVAL	
SCALE : NTS BHJL DWG. NO.: IS-DG-445-101-A004 SHEET NO.: SH - 4 OF 4 REV. R0	

REV.	STATUS	TYPE	REASONS FOR REVISION	DRAWN	CHECKED	APPROVED	DATE
-	-	-	-	-	-	-	-

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
 Power Sector - Eastern Region,
 Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
 Kolkata – 700 091

Sub	No Deviation Certificate.	
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	17.0	BHEL's TCN- 15, vide ref. no. PSER:SCT:SDG-C2063:TCN-15, Date: 24-09-2020.
	18.0	BHEL's TCN- 16, vide ref. no. PSER:SCT:SDG-C2063:TCN-16, Date: 25-09-2020.
	19.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted/uploaded offer/documents in accordance with tender instructions with acceptance of the terms & conditions of the tender by us and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)