

ADDENDUM-2

DATE: 30-07-2021

Complete DFDS, SW, CW & PW System for 2X800 MW Telangana Super Thermal Power Project-Karimnagar

Tender Ref: 77/21/6046/DSP

"Extension of due date for submission of offer"

Due date for submission of Offer has been extended to 06.08.2021

Submission of offer by 1.00 PM on 06.08.2021

Opening of Techno commercial bid at 4.00 PM on 06.08.2021

"New Link for NTPC Specification, bid document, NTPC approved Drawings"

As earlier link for NTPC specification, bid document no. CS-9591-101-2 is expiring on 31.07.2021, new link as attached shall form part of Tender document

" Link for Water Package Sump Pump drain to CSSP Drg No. 9591-102-162-PVM-F-001-08(CORRECTED)"

"Replies to Bidder queries"

Replies to bidder queries as attached shall form part of Tender document

Any further addendum such issued carry part of the bidding documents and this will be available at the web site from where the original documents have been received / downloaded by the bidder. Hence, bidders are requested to visit the web site on regular basis.

For Further Queries if any, Contact:

For Commercial :

Sh. D S Pradeep Kumar Sarma
Manager / MM
BHEL-ISG,
Prof.C.N.R.Rao Circle,
Bangalore-560 012
Off: 080 2218 4520,
e-mail: dsp@bhel.in

For Technical :

Sh. Indrajit Dey
Sr Manager / PE / Mech
BHEL-ISG,
Prof.C.N.R.Rao Circle,
Bangalore-560 012
Off: 080 2218 4219,
e-mail : idey@bhel.in

New Link for NTPC Specification, bid document:

Karimnagar SG ISLAND PKG NTPC specification, bid document no. CS-9591-101-2

Kindly click on the link to download the Documents.

External Link: [DOC/160721/101213](#)

6-ANNEXURE_D-_NTPC APPROVED DRGS_DOCS-WATER PKG(R) Documents have been shared to you. pl. click on the link to download the Documents.

External Link: [DOC/290721/101274](#)

Documents related to Karimnagar-Water Package Sump Pump drain to CSSP Drg No. 9591-102-162-PVM-F-001-08(CORRECTED).

Pl. click on the link to download the Documents.

External Link: [DOC/290721/101273](#)

The above links expire on 31/Aug/2021

Replies to Bidder queries:

Bidder Queries	BHEL Reply
<p>Please provide us the following drawing as same is not available with us.</p> <ol style="list-style-type: none">1. DRG. NO. 9591-102-162-PVM-F-001-042. DRG. NO. 9591-102-162-PVM-F-001 <p>Above drawing is require for estimate the sump pump pipe length</p>	<p>Pl. find below our clarifications w.r.t. your queries related to sump pump head requirement, piping length, scope and termination points etc.</p> <p>(1) Latest Revision (08) of DRG. NO. 9591-102-162-PVM-F-001 is enclosed with additional sketch/details.</p> <p>(2) Also enclosed GA DRG./ DATASHEET/ CURVE/PI&D/CONTROL WRITEUP/FLOW DIAGRAM OF WATER PUMP may pl. be replaced with earlier uploaded drg No. 9591-102-155-PVM-B-036-04 (All corrections marked in this attached drg shall be incorporated in next revision re-submission to customer for CAT-I approval).</p> <p>Also pl. note 'Clarification point' mentioned elsewhere in the previously or latest uploaded document for the same is due to typographical error and may pl. be ignored.</p>

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It must not be used in any way detrimental to the interest of the Company.

INVENTORY NO.
SIGN & DATE
REF.DWG.NO.

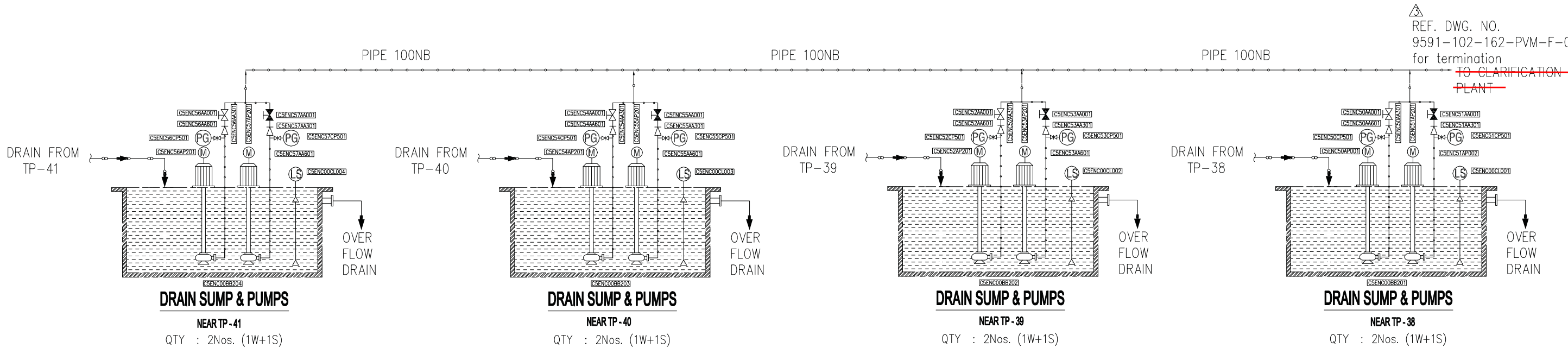
FORM-66.101

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN MM

DRAWING NO.

DO NOT SCALE. IF IN DOUBT, ASK.



JOB No.	IS-1-15-2003
STATUS OF DRAWING	
DISTRIBUTION OF PRINTS	QTY.
REV.	NAME SIGN DATE
ALTERED	
CHECKED	
APPROVED	
ZONE	

OWNER/CONSULTANT		NTPC Limited ENGINEERING DIVISION (A GOVERNMENT OF INDIA ENTERPRISE)	
PROJECT		TELANGANA SUPER THERMAL POWER PROJECT PHASE-I (2X800MW)	
BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE		NAME	SIGN
DRN.	JAGBIR	DATE	16.05.2019
CHD.	PAWAN	DATE	16.05.2019
APPD.	F.PAUL	DATE	16.05.2019
NTPC DRAWING NO.	9591-102-155-PVM-B-036	ITEM NO.	
BHEL DRAWING NO.	IS-3-DS-701-110-M027	REV.	04
OSM DRAWING NO.	OSM-17007-GA-SP-001		
SHEET NO. 1.	NO.OF SHTS. 1		

SIZE-A3

Control write-up Drain sump Pump

Drain sumps (4 nos.) and 2 nos. of Pumps (40M³/hr @50MWC 30KW each) for each sump considered. One working and one standby is considered for each drain sump. At a time only one working pump will be in operation out of 4 nos. Working Drain sump pump. Graphic page considered for the same. The facility for operation of each Drain sump pumps are as follows:

1. Working /stand by selection switch provided.
2. Maximum 'ON' time set point for each set of pumps in each sump provided.
3. Level switch (High and low) provided for each sump.
4. Electrical Status from sump pump Local control panel is considered.
5. Start/ stop operation of individual pump are provided.
6. Auto Group Start/ stop operation is provided.

Group Start / stop Operation

Working/ standby and Auto/ Manual selector switch provided in each Local control panel. If manual selected in Local control panel then pump can be operated from local control panel. If Auto selected in Local control panel provided in each control panel then the working selected pump can be operated from DCS. The operation of each working sump pumps in DCS is as follows:

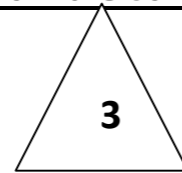
1. Check the Auto start Permissive (AS*) of working pump in sump 1 (Details given below).
2. If start Permissive o.k. of selected working pump of sump-1. Then working selected pump will start and the ON timer (Timer AS*) for sump-1 will start.
3. If Auto Trip condition (Details given below) true or ON timer time over or Auto start Permissive not O.K., then logic will stop/ bypass pump of sump 1 and check for working pump of sump-2.
4. Check the Auto start Permissive (AS*) of working pump in sump 2 (Details given below).
5. If start Permissive o.k. of selected working pump of sump-2. Then working selected pump will start and the ON timer (Timer AS*) for sump-2 will start.
6. If Auto Trip condition (Details given below) true or ON timer time over or Auto start Permissive not O.K., then logic will stop/ bypass pump of sump 2 and check for working pump of sump-3.
7. Check the Auto start Permissive (AS*) of working pump in sump 3 (Details given below).
8. If start Permissive o.k. of selected working pump of sump-3. Then working selected pump will start and the ON timer (Timer AS*) for sump-3 will start.

9. If Auto Trip condition (Details given below) true or ON timer time over or Auto start Permissive not O.K., then logic will stop/ bypass pump of sump 3 and check for working pump of sump-4.
10. Check the Auto start Permissive (AS*) of working pump in sump 4 (Details given below).
11. If start Permissive o.k. of selected working pump of sump-4. Then working selected pump will start and the ON timer (Timer AS*) for sump-4 will start.
12. If Auto Trip condition (Details given below) true or ON timer time over or Auto start Permissive not O.K., then logic will stop/ bypass pump of sump 4 and repeat the procedure of step no. 1 till Auto stop Bit initiated from MMI i.e. unlatch Start Bit in MMI.

Typical details of interlock for Drain Sump Pump in DCS

Auto Start Permissive (SP*)

1. Emergency stop released
2. Pump selected (Working/ Standby)
3. Electrical Condition Healthy for working pump selected.
4. Drain sump water level above Danger low set point or water level above high set point.

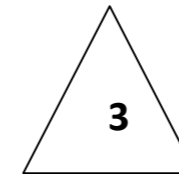


Auto Trip Condition (TC*)

1. Emergency stop Operated
2. Electrical Condition Not Healthy
3. Drain sump water level Danger low

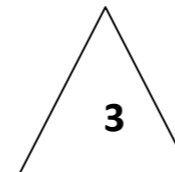
Auto Start Condition (AS*) (For further detail refer flow diagram)

1. Auto start permissive available
2. Auto stop bit unlatched for particular sump. (sump1, sump2, sump3 & sump4)
3. Sequence is in particular sump i.e. as at a time only one working pump will run out of 4 working sump pump.



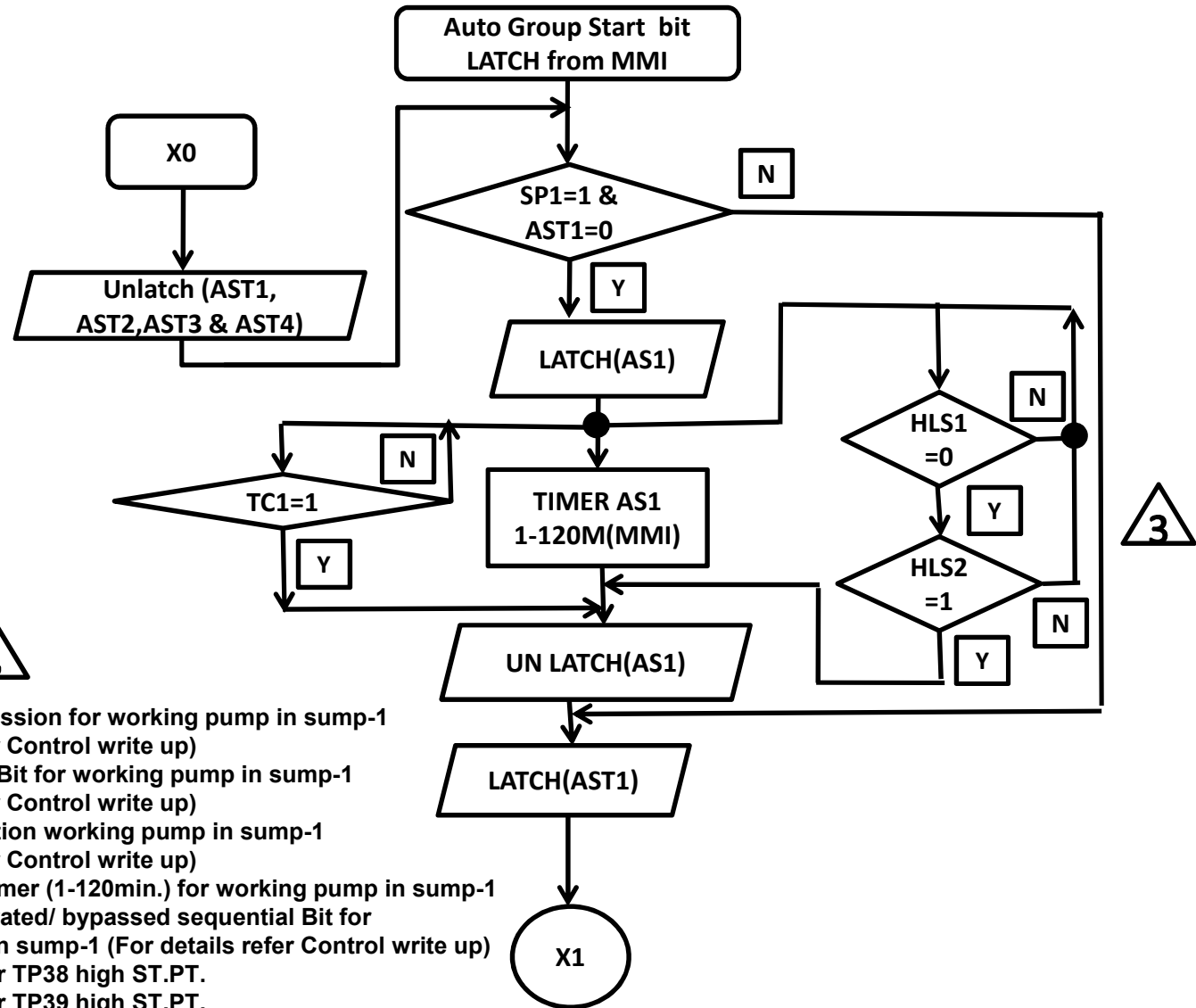
Auto Stop condition (AST*) (For further detail refer flow diagram)

1. On time over for particular sump.
2. Trip condition actuated (TC*)
3. Sump level of running sump pump below high level and next sump level is above High level.



Auto Sequence Logic for 4 nos. Drain Sump Pump

Logic for Drain Sump-1 (Near TP38) working selected Pump

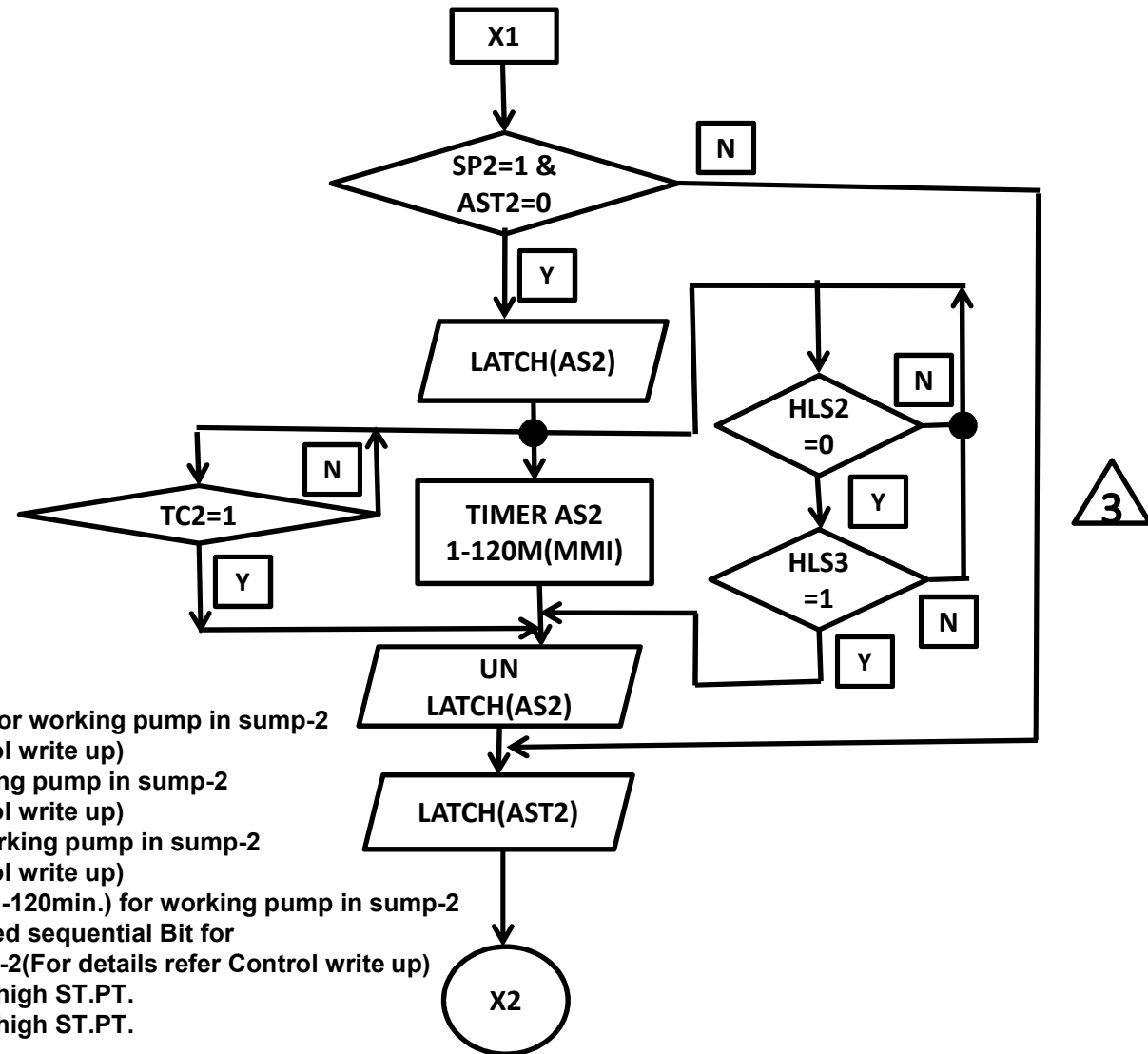


NOTE:-

- SP1 - Auto Start Permission for working pump in sump-1
(For details refer Control write up)
- AS1 - Auto Start/Stop Bit for working pump in sump-1
(For details refer Control write up)
- TC1 - Auto Trip Condition working pump in sump-1
(For details refer Control write up)
- Timer AS1- Auto On delay timer (1-120min.) for working pump in sump-1
- AST1- Auto pump operated/ bypassed sequential Bit for
working pump in sump-1 (For details refer Control write up)
- HLS1- Sump Level near TP38 high ST.PT.
- HLS2- Sump Level near TP39 high ST.PT.

Auto Sequence Logic for 4 nos. Drain Sump Pump

Logic for Drain Sump-2 (Near TP39) working selected Pump

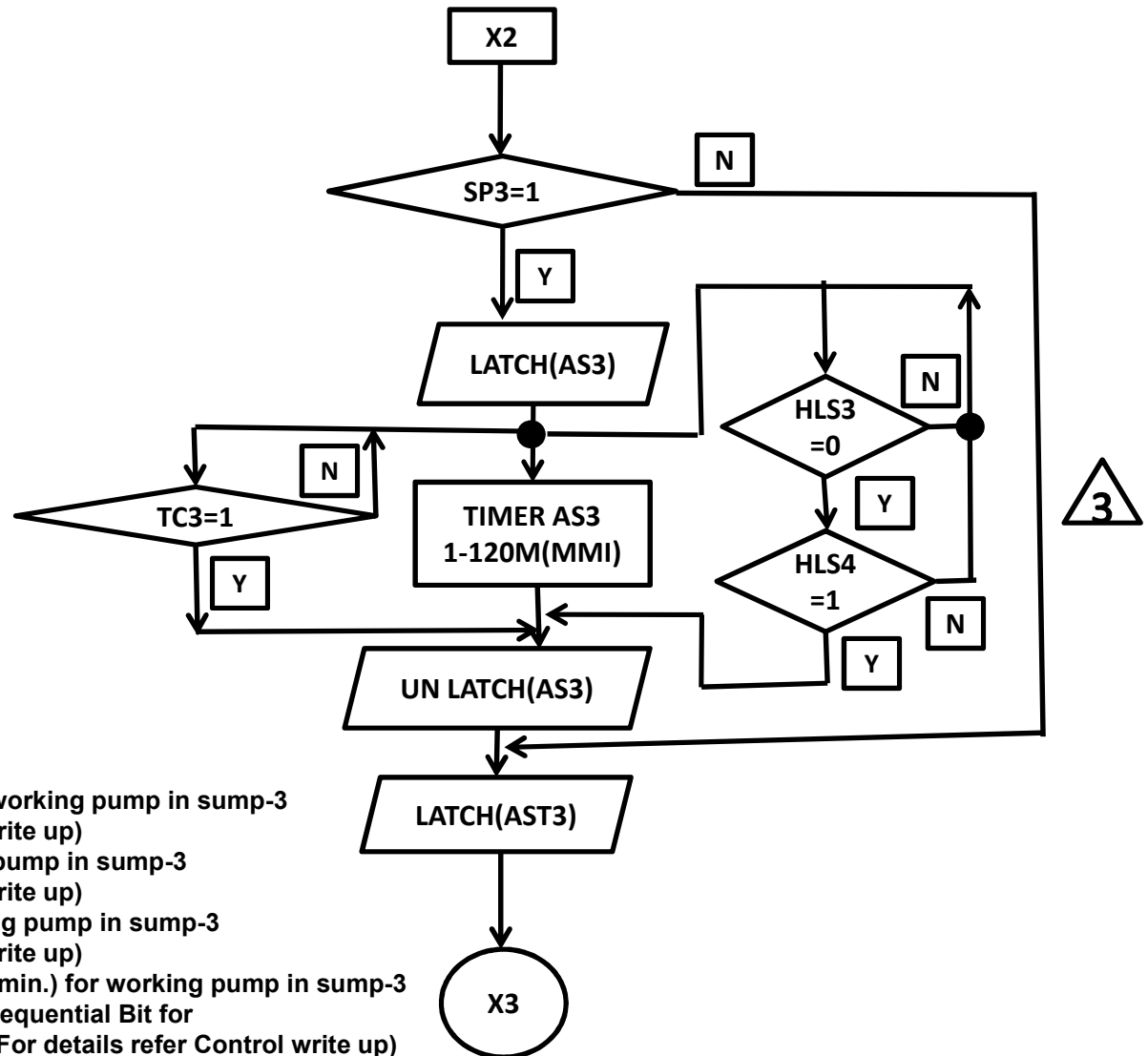


NOTE:-

- SP2 - Auto Start Permission for working pump in sump-2
(For details refer Control write up)
- AS2 - Auto Start Bit for working pump in sump-2
(For details refer Control write up)
- TC2 - Auto Trip Condition working pump in sump-2
(For details refer Control write up)
- Timer AS2- Auto OFF delay timer (1-120min.) for working pump in sump-2
- AST2- Auto operated/ bypassed sequential Bit for
working pump in sump-2(For details refer Control write up)
- HLS2- Sump Level near TP39 high ST.PT.
- HLS3- Sump Level near TP40 high ST.PT.

Auto Sequence Logic for 4 nos. Drain Sump Pump

Logic for Drain Sump-3 (Near TP40) working selected Pump

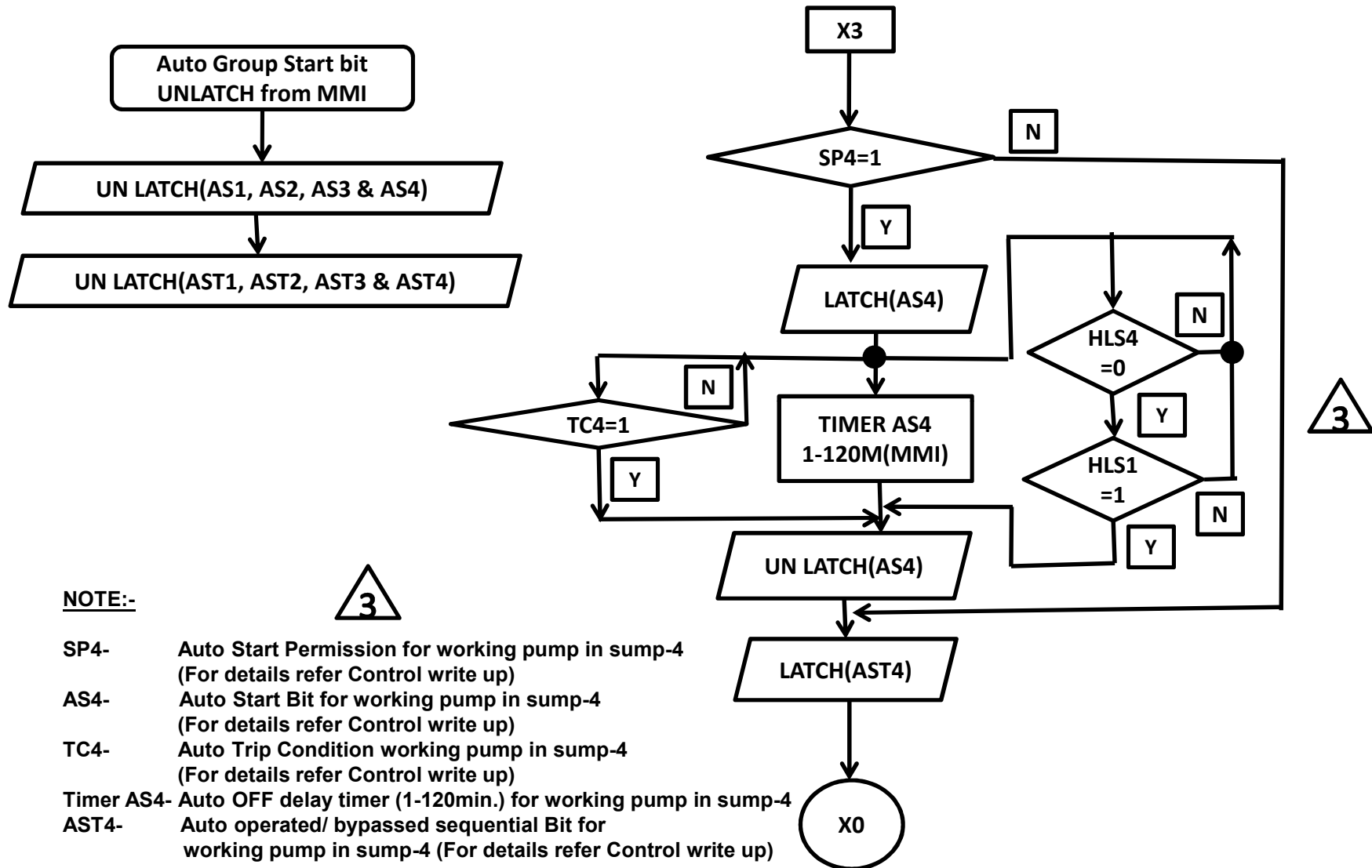


NOTE:-

- SP3 -** Auto Start Permission for working pump in sump-3
(For details refer Control write up)
- AS3 -** Auto Start Bit for working pump in sump-3
(For details refer Control write up)
- TC3 -** Auto Trip Condition working pump in sump-3
(For details refer Control write up)
- Timer AS3-** Auto ON delay timer (1-120min.) for working pump in sump-3
- AST3-** Auto operated/ bypassed sequential Bit for
working pump in sump-3 (For details refer Control write up)

Auto Sequence Logic for 4 nos. Drain Sump Pump

Logic for Drain Sump-4 (Near TP41) working selected Pump

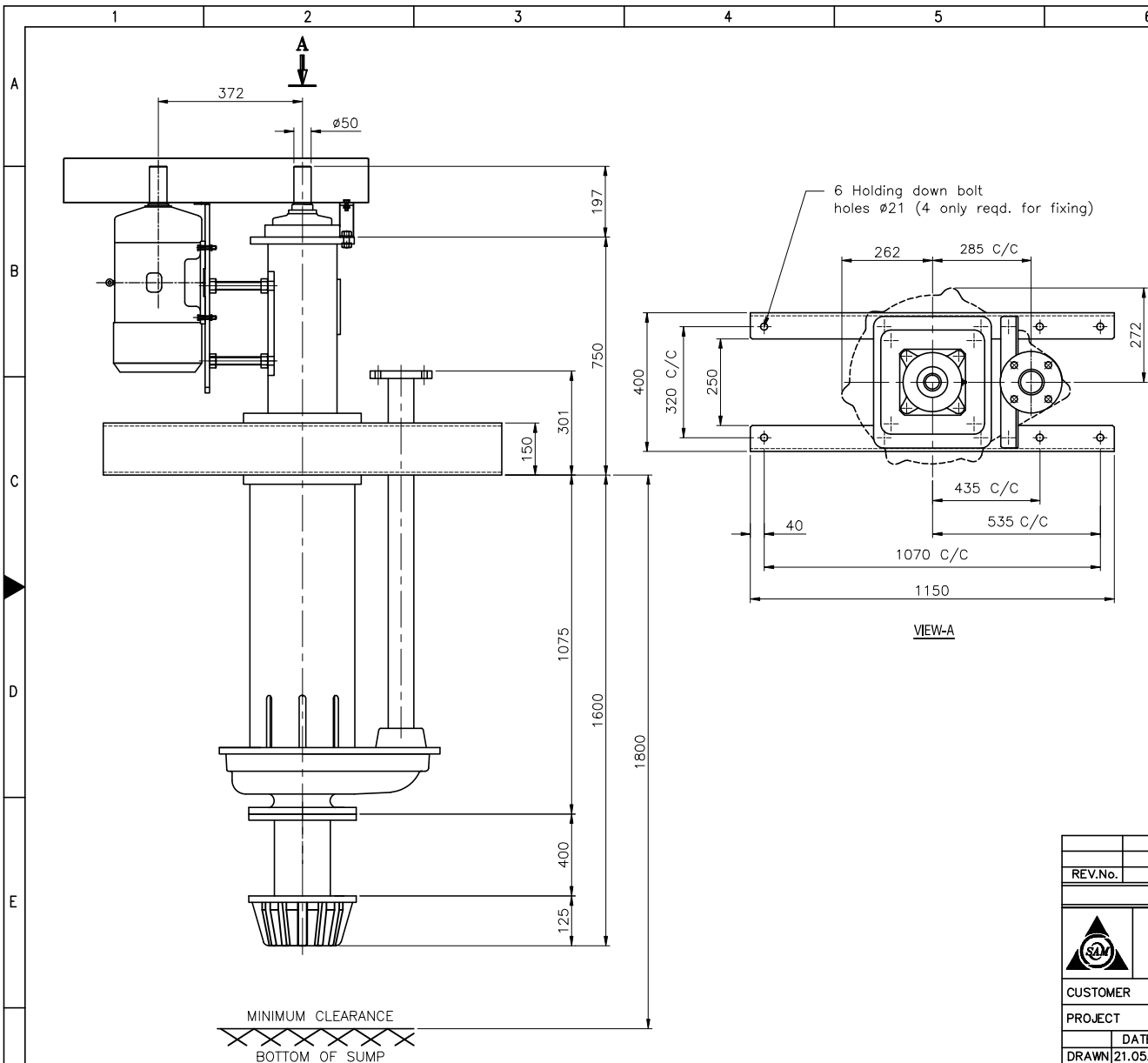


Sump Pump Calculations



		REVISION : 4		DATE : 04.12.19			
Project Title		2X800 MW Telangana Super Thermal Power project					
Pacakge		Coal Handling System					
Client		NTPC LTD.					
Customer		BHEL -ISG BANGALORE					
Contractor		OSM PROJECTS PVT. LTD.					
SI No	Parameters	Duty	code	unit	Formulae	Value	Reference
A	Flow requirement						
i	Coal wash water from drain pump (coal +water)	Intermittent	Q	m³/hr		40	MOM dated 03.05.19
ii	No of drain pumps working at a time		Nos			1	
B	Total dynamic Head						
1	Total rated flow		Q	m³/hr		40	
2	Total line length		L	meters		1200	Refer drg. No 9591-102-162-PVM-F-001
3	Line rise		H	meters		10	Refer drg. No 9591-102-162-PVM-F-001
4	Pipe size considered (mm NB)		d	mm		100	
5	Pipe OD		ID	mm		114.3	
6	Pipe thickness		t	mm		5.4	
7	Pipe ID		d0	mm		103.50	
			ft			0.3395	
8	Pipe Area		a	m²		0.0084	
9	Line velocity through the pipe		v	m/s		1.19	
				f/sec		3.90	
10	Fow through the pipe		Q	m³/hr		40.00	
11	Frictional Coefficient (Williams Hazens formula)		C			100	
			k			0.528	
12	Frictional resistance coefficient (Williams Hazens formula) per 1000 ft				$h_f = (v^{1.852} / d^{1.167}) k$	23.20	
13	Frictional resistance coefficient		h _f	%		2.32	
14	Friction loss due to bend loss		f				
14.1	90 deg. Bend				2.2		
14.2	Quantity of bend		10		2.2x 10	22	
14.3	45 deg. Bends		2		1.4x2	2	
14.4	Plug Valve		1		10x1	10	
15	Total friction loss in line		hf	m	f(L)/100	28	
16	Dynamic head required		h	mwc	hf+H	38	
17	Margin on frictional head (straight pipe line friction loss & bend loss)			%		10	Includes bend losses
			hmar	mwc		2.78	
18	Total dynamic head required with margin		Htot	mwc	h+hmar	40.62	
19	No. of Pump per stream		n	nos		1	
20	Total dynamic head required per pump			mwc	Htot/n	40.62	
21	Total dynamic head of pump slected		TDH	MWC		50	
Selection							
22	Selected capacity			m³/hr		40	
23	Head			MWC		50	
24	Motor rating			KW		30	

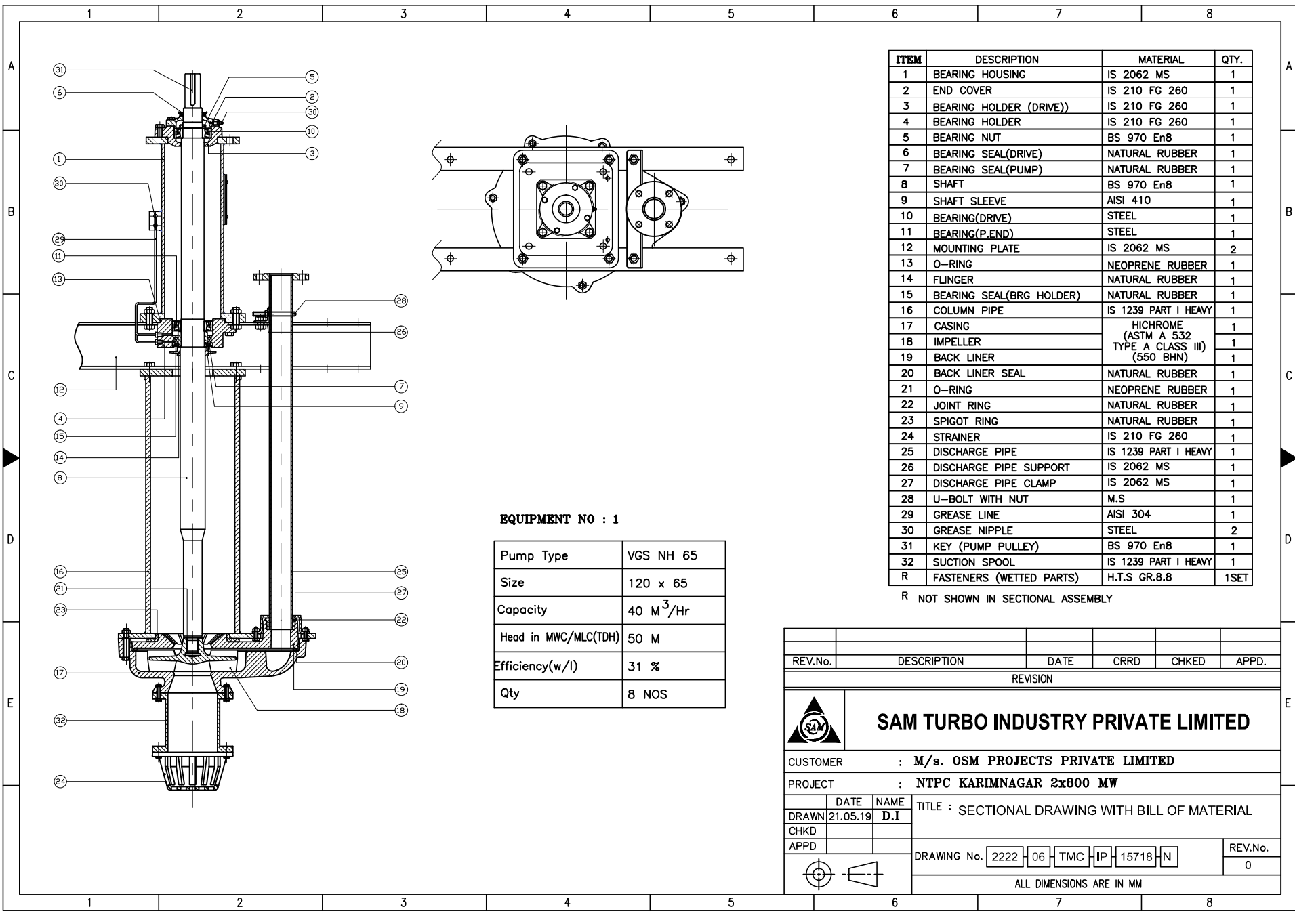
to be corrected to
1445 m (i.e. 305
+15+955+170)

REF : TMC/IP/15718/N	DT:01.07.2019
PUMP DATA SHEET (VERTICAL SLURRY PUMP)	
CUSTOMER :	M/s. OSM PROJECTS PRIVATE LIMITED
PROJECT :	NTPC KARIMNAGAR 2x800 MW
TECHNICAL SPECIFICATION	VERTICAL CANTILEVER SLURRY PUMP
Equipment No	1
Pump Designation	Sump Pump
Quantity in Nos.	8 Nos
LIQUID DETAILS	
Liquid Handled	Coal Slurry
Temparature in C	Ambient
Specific Gravity	1.10
Solid concentration	--
Solid Size (mm)	20 mm (Max)
PUMP SPECIFICATION	
Capacity in M ³ /hr	40
Head in mwc / mlc (TDH)	50
Pump Type / Model	VGS NH 65
Size in mm (suc /del)	120 X 65
Speed in RPM	1900
Efficiency in % (W/L)	31
BKW (W)	17,57
BKW (L)	19,33
Max. Solid Size Pump can handle - mm	26 mm
Shutoff Head in m	55 m
Shaft sealing	TIGA (GLAND PACKING)
Impeller Type / Dia - mm	Open / 280
Pump Setting Height mm	1200mm + 400mm(Suction Spool)
Pump Sump Depth - mm	1800
MATERIAL OF CONSTRUCTION	
Volute Casing	HICHROME (ASTM A 532 TYPE A CLASS III) (550 BHN)
Impeller	HICHROME (ASTM A 532 TYPE A CLASS III) (550 BHN)
Wear Plate	HICHROME (ASTM A 532 TYPE A CLASS III) (550 BHN)
Single Shaft	BS 970 EN 8
Shaft Sleeve	AISI 410
Column / Delivery Pipe	IS 1239 Part I Heavy
Bearing Bed & Other Parts	CI & STD MOC
DRIVE DETAILS	
Recommender Motor power - KW	30 KW
Speed - Rpm	1500 RPM
Type of Drive	"V" Belt Drive



TECHNICAL PARAMETERS	
PUMP DETAILS	
EQUIPMENT NO.	1
PUMP MODEL	VGS NH 65
SIZE	120X65
QTY	8 NOS
CAPACITY	40 m ³ /hr
HEAD in MWC/MLC(TDH)	50 m
SP.GRAVITY OF SLURRY	1.10
PUMP SPEED	1900 RPM
PUMP LENGTH	1200 mm + 400mm SUCTION SPOOL
BKW (W/L)	17.57/19.33
EFFICIENCY	31 %
MOTOR DETAILS	
MAKE	MARATHON
FRAME SIZE	D200L
SPEED(SYN)	1500 RPM
POWER	30 KW
BELT DETAILS	
PUMP PULLEY PCD	180
MOTOR PULLEY PCD	236
BELT SIZE	SPB 1400-3 NOS
SCOPE OF SUPPLY	
BARE PUMP	YES
MOTOR MOUNTING FRAME	YES
V BELTS	YES
SET OF PULLEYS	YES
DRIVE GUARD	YES

REV.No.	DESCRIPTION	DATE	CRRD	CHKD	APPD.
REVISION					
<div><div></div><div>SAM TURBO INDUSTRY PRIVATE LIMITED</div></div>					
CUSTOMER : M/s. OSM PROJECTS PRIVATE LIMITED					
PROJECT : NTPC KARIMNAGAR 2x800 MW					
	DATE	NAME	TITLE : OVERALL DIMENSIONAL DRAWING		
DRAWN	21.05.19	D.I			
CHKD					
APPD					
			DRAWING No.		<div>1813</div> <div>227</div> <div>TMC</div> <div>IP</div> <div>15718</div> <div>N</div>
			REV.No.		()
ALL DIMENSIONS ARE IN MM					

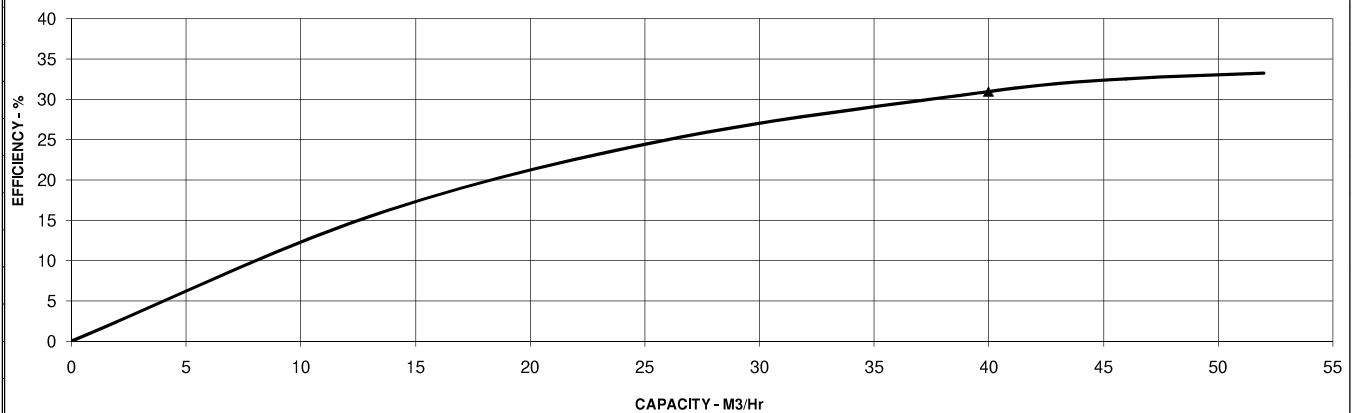
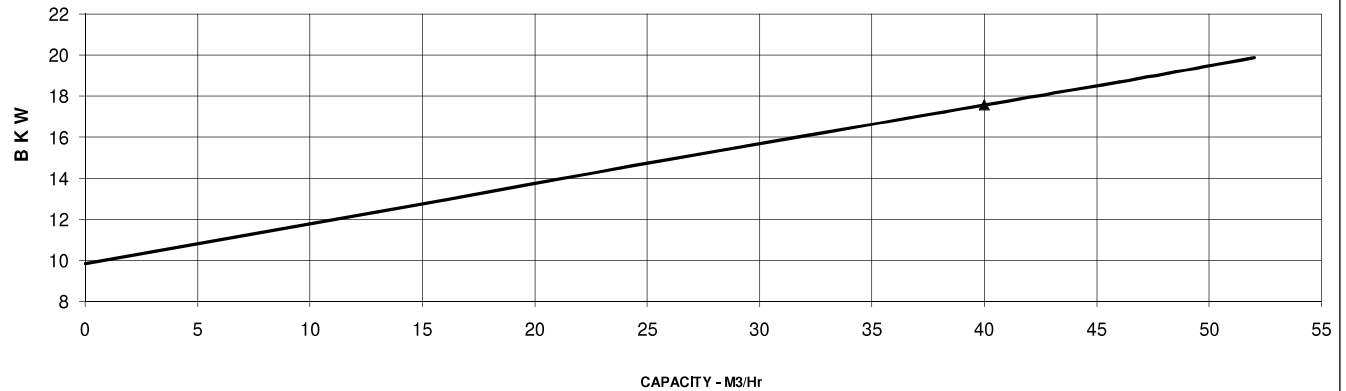
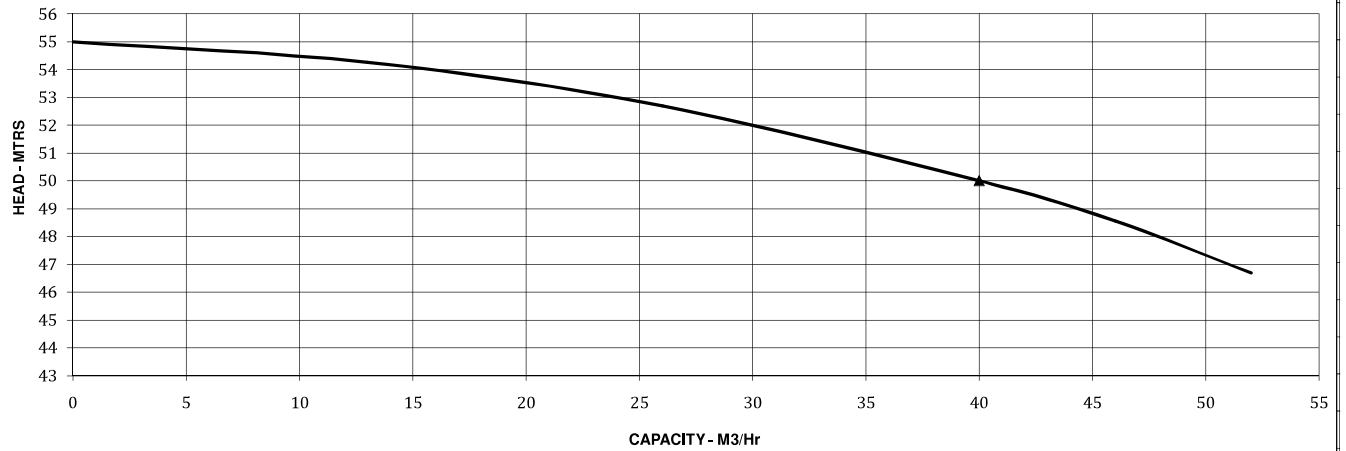


**SAM TURBO INDUSTRY PVT LTD****VGS NH 65****PUMP CHARACTERISTIC CURVE****SIZE : 120X65**

BASED ON THE PERFORMANCE OF WATER OF VISCOSITY 1CST, SP GR 1.0

PUMP MODEL :-

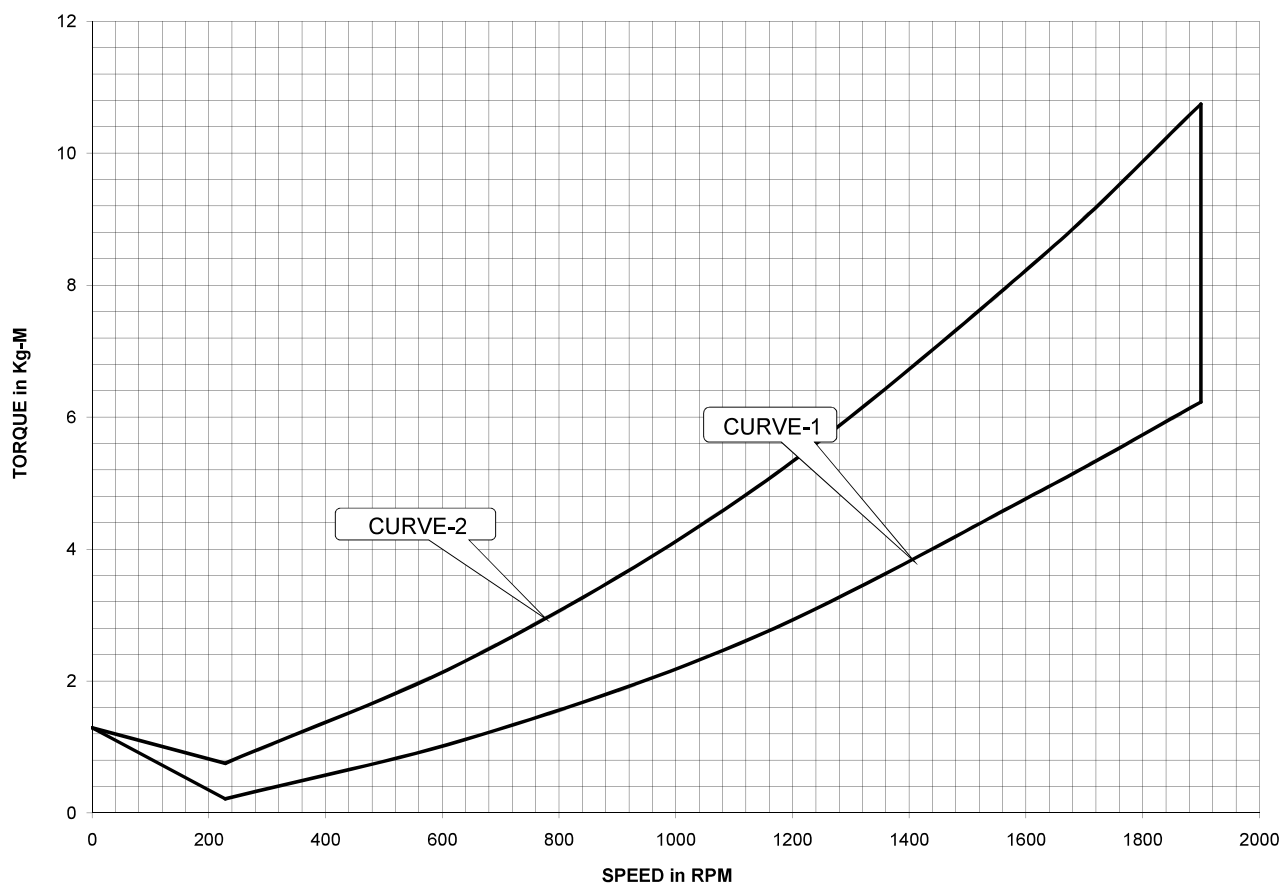
VGS NH 65



CAPACITY - CUB MTRS/HR	40	CUSTOMER M/s. OSM PROJECTS PRIVATE LIMITED	
TOTAL HEAD -MTRS	50		
SPEED - RPM	1900		
EFFICIENCY - %	31.0%		
BKW with S.G =1.0	17.57		
SUCTION & DELIVERY-MM	120 x 65	PROJECT NTPC KARIMNAGAR 2x800 MW	
		PUMP DESIGNATION DRAIN SUMP PUMP	
		SAM REF : TMC/IP/15718/N	
		DRAWN G.MEENA	ND
		CHKD G.M	DT: 1.07.2019



SAM TURBO INDUSTRY PVT LTD SPEED TORQUE CURVE



CURVE 1 - Indicates when delivery valve fully opened and pipe line drained

CURVE 2 - Indicates when delivery valve fully opened and no geodetic head

CUSTOMER	:	M/s. OSM Projects Pvt Ltd
PROJECT	:	NTPC KARIMNAGAR 2x800 MW
PUMP SPECIFICATION	:	Sump Pump

PUMP TYPE	:	VGS NH 65	HEAD	:	50 M
SIZE	:	120X65	CAPACITY	:	40 M ³ /Hr
MOTOR RATING	:	30 KW	PUMP SPEED	:	1900 rpm
GD² VALUE	:	0.3320 Kg-M ²	SP. GRAVITY	:	1.10
ORDER REF	:	TMC/IP/15718/N	EFFICIENCY	:	31%
			BKW/BHP(L)	:	19.33 KW 26 HP

Compliance Report

S.no.	NTPC Comment on rev 03 through transmittal27849 dated 03-12-2019	BHEL reply dated 04-12-2019
1	Review the capacity as provided earlier and indicated on page no.-2.	Values corrected in Page 2 in line with Calculation/datasheet and MOM

**MINUTES OF TECHNICAL COORDINATION MEETING BETWEEN NTPC,BHEL,TPL AND OSMPPPL ON
DATED 03.05.2019 AT NTPC EOC, NOIDA**

PROJECT : TELANGANA STPP PHASE – 1 (2 x 800 MW) BOP PACKAGE

SUBJECT : INTERFACE MEETING WITH TPL/BHEL

PARTICIPANTS :-

NTPC	TPL	BHEL	OSMPPL
ARUP GHOSAL	Y B SANKAR	INDRAJITDEY	HARI PRASAD
DIPANKAR BISWAS	RVN SRIKANTH		VARUN BIMAL
D K JAIN			F.PAUL

This MOM will supersede the point no 2 of MOM dated 09.05.18 (Attached) regarding effluent transfer from TP 38 to 41 and it shall be read as :

1. Scheme revised to transfer the Coal decanted water to CSSP pit.
2. At each TP i.e TP 38,39,40,41 one no sump (2 X 2 X 1.8 M DEPTH) with 2 nos. sump pumps each of capacity 40 m³/hr @ 50 mWc will be provided to transfer the coal wash water from respective TPs and 10 cu.m/hr MRS effluent of bunker area to effluent sump near TP -35 through DN 100 pipe line. From sump pit near TP-35 it will be discharged to CSSP. BHEL and TPL jointly checked and confirmed the same in meeting.
3. BHEL/OSM will provide all the pump 8 nos. (4 working + 4 standby) and common pipe header of DN 100 from TP 41 to terminal point B and from there onwards (terminal point B) DN 100 pipe line up to effluent sump near TP-35 will be provided by TPL.
4. At any point of time only one sump pump among 4 sump pumps located in 4 bunker TP's will be in operation. BHEL will provide suitable interlock/ permissive to ensure the same.
5. Each sump pit will be provided with Level switches showing Low & high level which will be connected to local control panel for start and stop of the pumps.

NTPC

BHEL

OSMPPL

TPL

(Handwritten signatures for NTPC)

(Handwritten signature for BHEL)

(Handwritten signature for OSMPPL)

(Handwritten signature for TPL with date 03/05/19)

9591-102-102-POE-E-010A **MINUTES OF TECHNICAL COORDINATION MEETING BETWEEN NTPC, TPL, BHEL AND ABFPL ON 09-05-18 AT NTPC EOC, NOIDA**

PROJECT: TELANGANA STPP PHASE – 1 (2 X 800 MW) - BOP PACKAGE

SUBJECT: Interfacing meeting with TPL/BHEL /ABFPL

Participants: -

NTPC

Arup Ghosal

Deepak Jindal

Prabhat Ranjan Deen

Rajat Sharma

TPL

R Mathivanan

BHEL

I. Dey (BHEL/ISG)

Deepak (BHEL/PEM)

ABFPL

Pratik

Rishov

1. The following MEP layout TPL clarification discussed and finalized as per below details

S.No	TPL Comment	NTPC Reply	Final resolution
1.	NTPC to update complete ash slurry piping corridor in this layout to check interference.	TPL to plan the layout of its trestle w.r.t BHEL drawing no 9591-102-162-PVM-F-010 titled "BOTTOM ASH SLURRY DISPOSAL AREA PIPING LAYOUTS (INSIDE PLANT)"(attached)	TPL clarified that PR-9 interference with ash slurry pipe corridor near to terminal point C (9591-131-LP-PVM-P-004). NTPC/BHEL will revert with possible solution for providing space for TPL pipe rack trestle column (9591-102-162-PVC-C-1324). BHEL will submit the proposal by 15-05-18
2.	As commented earlier, NTPC to reroute the ash slurry pipe corridor as per approved yard piping layout.	Same as S.No.1	Same as S.No.1
3.	Silo orientation to be updated latest FGD layout.	BHEL to update MEP layout as per FGD drawing no 9591-109-PVC-B-001 titled "GA & RCC Detail of Foundation of Lime Stone Slurry Tank" (attached)	BHEL will update the same in next revision of MEP.
4.	TP-50 size & orientation to be updated based	TPL to submit the GA drawing of TP-50, so that the same can be forwarded to BHEL	TPL clarified that based on TCM dt 10-05-18 with FGD vendor, final GA of TP-50 will be submitted to NTPC by

	on TCM dt 14-03-18.	for updating MEP layout.	16-05-18
5.	Monorail landing fouling with piperack.PL revise pipe rack as per GA of TP-37 9591-155-PVM-B-018	BHEL to take suitable action	BHEL ISG will revert by 17-05-18
6.	Tower size to be updated based on latest approved drg (9591-155-PVM-B-018).	BHEL to update MEP drawing based on the referred drawing. (attached)	BHEL clarified that the same will update in next revision of MEP
7.	FWBPH location have updated in MEP layout (AutoCAD drawing attached). The same to be updated.	BHEL to update MEP layout drawing based on TPL drawing no 9591-151-PVM-P-010 titled "Piping & Equipment Layout for Hydrant & Spray Booster Pump House" (attached)	BHEL proposed that North coordinate as 726.0 (Column centreline A1) for FWBPH. Accordingly, TPL will provide revised drawing to BHEL/NTPC by 17.05.2018. Same will be updated in next revision of MEP.
8.	NTPC to show staircase & elevator details	Same as S.No. 6 above.	BHEL/NTPC informed that only overall space arrangement will be shown in MEP.
9.	NTPC to relocate LM-6 & DG to locate MCC-D switchgear room. MCC - D location have updated in MEP layout (AutoCAD drawing attached). The same to be updated.	As shown in Auto Cad drawing, LM-6 is not required to be shifted. The same was also discussed with TPL. Regarding the shifting of DG set, BHEL to take necessary action	TPL will review MCC-D location w.r.t clearance from nearby BHEL/NTPC pipe rack foundation and PSS-6&LM6 After confirmation from NTPC, same will be updated in the next revision on MEP.
10.	DG set location have updated in MEP layout (AutoCAD drawing attached). The same to be updated.	BHEL to update location as per attached AutoCAD dwg	BHEL requested TPL/NTPC to provide locating coordinate of DG by 17-05-18. Accordingly, same will be updated in next revision of MEP.

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2. NTPC/BHEL/TPL discussed that main plant TP effluent transfer scheme and finalized that BHEL will provide one pipe line (100 NB) up to terminal point C and further piping up to ETP will be done by TPL ~~(Refer to TCM)~~. TPL will provide the sketch showing piping length & bends for BHEL to select the pump head by 16-05-18
TPL will provide necessary interconnection at site for TP-37 effluent Connection to TP-38 sump pit scheme by 16-05-18. NTPC requested BHEL to accept the same without changing sump & sump pit located at TP-38. BHEL accepted

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HP

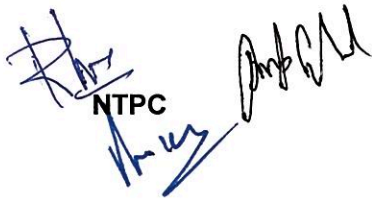
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3. TPL requested NTPC to obtain complete BHEL layout showing MEP, ash handling plant layout & ash slurry pipe corridor layout to avoid interference issues. NTPC advised TPL to submit the revised plot plan and will be forwarded the same to BHEL to taking care of interfacing issues.
4. BHEL-ISG will submit pipe trestle location, loading details and connection details connecting with ABFPPL trestle at C row by 25.05.18. ABFPPL will review and revert.
5. BHEL/NTPC will submit LP Dosing station GAD & NaOH tank GAD by 15th June,18.
6. TPL requested NTPC to submit control room architecture drawing/false ceiling room(Including HVAC layout) by 10-05-18 to submit the Inert Gas Cylinder room & distribution arrangement by 19-05-18 .
7. ABFPPL requested NTPC/TPL to provide all inputs required by ABFPPL agreed in Interface meeting on dated 18th & 19th April,18 at earliest

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NTPC


09/05/18
TPL


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BHEL

Deepak


09/06/18
ABFPPL