Project Verification Report of
UCR ID Number 134
Wanger Homte Hydro Electric Project

Ver-UCR-03

21 Aug 2022

COVER PAGE

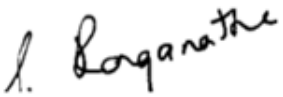
Project Verification Report Form (VR)

Complete this form in accordance with the instructions.

BASIC INFORMATION	
Name of approved UCR Project Verifier / Reference No.	S.Ranganathan (Independent Verifier)
Type of Accreditation	☐ CDM or other GHG Accreditation ☐ ISO 14065 Accreditation ☒ UCR Approved Verifier
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	Sectoral Scope : 01 Energy Industries
Validity of UCR approval of Verifier	From 21 Jan 2022 onwards
Completion date of this VR	21 Aug 2022
Title of the project activity	Wanger Homte Hydro Electric Project
Project reference no. (as provided by UCR Program)	134
Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	M/s Panchhor Hydro Power Pvt. Ltd
Contact details of the representative of the Entity, requesting verification service	Mr.Mereddy Keshav Reddy Mob : 8125619989

(Focal Point assigned for all communications)	E Mail : asthagreen@gmail.com
Country where project is located	**India**
Applied methodologies (approved methodologies by UCR Standard used)	ACM0002 Version 20.0: Large-scale Consolidated Methodology Grid-connected electricity generation from renewable sources of CDM
GHG Sectoral scopes linked to the applied methodologies	SECTORAL SCOPE - 01 Energy industries (Renewable/Non-Renewable Sources)
Project Verification Criteria: Mandatory requirements to be assessed	☒ UCR Standard ☒ Applicable Approved Methodology ☒ Applicable Legal requirements /rules of host country ☒ Eligibility of the Project Type ☒ Start date of the Project activity ☒ Meet applicability conditions in the applied methodology ☒ Credible Baseline ☒ Do No Harm Test ☒ Emission Reduction calculations ☒ Monitoring Report ☒ No GHG Double Counting ☐ Others (please mention below)
Project Verification Criteria:	☒ Environmental Safeguards Standard and do-

Optional requirements to be assessed	no-harm criteria ☒ Social Safeguards Standard do-no-harm criteria
Project Verifier's Confirmation: The *UCR Project Verifier* has verified the UCR project activity and therefore confirms the following:	The UCR Project Verifier S.Ranganathan, certifies the following with respect to the UCR Project Activity Wanger Homte Hydro Electric Project. ☒ The Project Owner has correctly described the Project Activity in the Project Concept Note (dated *10/07/2022*) including the applicability of the approved methodology ACM0002 Version 20.0 "Grid-connected electricity generation from renewable sources" and meets the methodology applicability conditions and has achieved the estimated GHG emission reductions, complies with the monitoring methodology and has calculated emission reductions estimates correctly and conservatively. ☒ The Project Activity is likely to generate GHG emission reductions amounting to the estimated 112,856 TCO_{2e}, as indicated in the PCN, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3. ☒ The Project Activity is not likely to cause any

	net-harm to the environment and/or society ☒ The Project Activity complies with all the applicable UCR rules[1] and therefore recommends UCR Program to register the Project activity with above mentioned labels.
Project Verification Report, reference number and date of approval	UCR Verification report of Project ID 134
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	S.Ranganathan  21 Aug 2022

PROJECT VERIFICATION REPORT

Executive summary

The verification assignment has been awarded by the project aggregator M/s Zenith Energy Services Private Limited, Hyderabad, India to carry out an independent verification of its UCR project Wanger Homte Hydro Electric Project to verify the CoU generated by the project activity for the monitoring period 15/02/2021 to 31/12/2021 both days included. The project activity is approved by UCR and the project ID is 134.

The project activity is a grid connected Hydro Electric Power project located in Kinnaur district in the state of Himachal Pradesh, India. Wanger-Homte Hydro Electric Project is a run - of - the river type hydroelectric project involving diversion of Bhabha Khad inflows by constructing a raised crested type diversion weir. The diverted water flows through conveyance channel/tunnel to a surface desilting tank, and designed to exclude all silt particles down to 0.20 mm size. The silt free water is carried through power tunnel up to underground Surge Tank. The inflows will be lead to surface power house through a surface penstock to feed three Francis turbines driven generating units of 8.20 MW each (Total 24.60 MW).).

The project activity started supply of power to the grid from 15 Feb 2021.

The project activity has adopted approved methodology ACM0002 Version 20.0 of CDM and it meets the methodology applicability conditions. The project activity complies with the monitoring requirements of the adopted methodology ACM0002 Version 20.0 of CDM. The emission reductions are estimated correctly and conservatively.

The scope of verification is independent, objective review and export determination of the emission reductions of the project activity. The approach adopted is to check the quality of data, the monitoring system, the emission reduction calculations and double accounting.

Interview with the project proponent team was conducted over the web to ascertain the practices adopted and verify the site arrangements and practices.

The project activity has been assessed against the UCR standard, Verification guidance document, UCR Program manual, the adopted CDM methodology ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources” and the relevant rules and guidance.

Due professional care has been exercised during the verification activity and the report is a fair presentation of the activity carried out. The validation of the project activity is not part of the assignment. However, the project is deemed to be validated once registered by UCR.

The additional verification for this project activity is applicable as per UCR Guidance since the capacity of the project activity is 24.8MW which is above 15MW.The additional verification report is given as Annexure-2 to this report

The emission reductions for the monitoring period under consideration have been verified to be correct and meets the UCR guidelines.

The net emission reduction achieved for the verification period 15/02/2021 to 31/12/2021 both days included is 95,956 tCO_{2eq}.

Project Verification team, technical reviewer and approver

The verification was carried out by me,(S.Ranganathan) who is a qualified validator, verifier, technical expert/reviewer for SECTORAL SCOPE - 01 Energy industries (Renewable/Non-Renewable Sources).The resume of the verifier is given in the subsequent portion of the report.

Project Verification team

No.	Role	Last name	First name	Affiliation (e.g. name of central or other office of UCR Project Verifier or outsourced entity)	Involvement in		
					Doc review	Off-Site inspection	Interviews
1.	Team Leader	Seshan	Ranganathan	Independent Verifier	Yes	Yes	Yes
2.	Validator	Seshan	Ranganathan	Independent Verifier	Yes	Yes	Yes
3	Technical Expert	Seshan	Ranganathan	Independent Verifier	Yes	No	No

Means of Project Verification

Desk/document review

The documents reviewed were to confirm the project activity is as per the PCN version 02 dated 10/07/2022 /6/ and to confirm the data provided in the monitoring report /7/ for the period 15/02/2021 to 31/12/2021 both days included. The documents reviewed were the detailed project report /14/, the Power Purchase Agreement /15/, Clearance from Forest department /16/, Approvals from Directorate of Energy Himachal Pradesh, Implementation agreement /17/, MOA of Panchhor Hydro Power Private Limited /18/, IREDA approvals /19/, the power generation details /20/ and calibration details of meters /21/.
The list of documents reviewed as part of the verification activity is available under the section Document reviewed or referenced in the subsequent sections of this report

On-site inspection : Not applicable

Date of off site inspection:	No site visit was conducted and this meets the UCR guidelines. However interview of the staff at site and the project Proponents /Aggregator Office were held over web on		
No.	**Activity performed Off-Site**	**Site location**	**Date**
1.			
…			

Interviews

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Gopishetty	Srinivas	Manger-PP	23/05/2022	1) Project location 2) Commissioning of Project 3) Metering System 4) PPA 5) Calibration 6) Emission reduction calculations including project emissions
2	-	Sachin Avasthi	Project Engineer-PP	23/05/2022	
3	Ramisetti	Laxmi Narayana	Project Engineer-PP	23/05/2022	
4	Bolledhu	Narendra	Sr. Engineer-ZESPL	23/05/2022	
5	Tiruvuri	Sai Krishna	Engineer—ZESPL	23/05/2022	

Sampling approach N/A. The monitoring parameter is the electricity generated. The verification is done based on the Joint Metering Report /20/ that was made available for every month of the monitoring period.

Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
Green House Gas (GHG)			
Identification and Eligibility of project type	Nil	Nil	Nil
General description of project activity	4	2	Nil
Application and selection of methodologies and standardized baselines	Nil	Nil	Nil
- Application of methodologies and standardized baselines	Nil	Nil	Nil
- Deviation from methodology and/or methodological tool	Nil	Nil	Nil
- Clarification on applicability of methodology, tool and/or standardized baseline	Nil	Nil	Nil
- Project boundary, sources and GHGs	Nil	Nil	Nil
- Baseline scenario	Nil	Nil	Nil
- Estimation of emission reductions or net anthropogenic removals	Nil	1	Nil
- Monitoring Report	1	1	Nil
Start date, crediting period and duration	2	Nil	Nil
Environmental impacts	Nil	Nil	Nil
Project Owner- Identification and communication	1	Nil	Nil
Others - Monitoring report version & date	1	Nil	Nil
Total	9	4	Nil

Project Verification findings

Identification and eligibility of project type

Means of Project Verification	The project activity is registered under UCR. The project identification number is 134 as could be confirmed from the UCR website https://www.ucarbonregistry.io/Registry/Details?id=%2FL7NX7iu6xsha5nuCH9%2FOQ%3D%3D The project activity is Hydro Power Electricity generation project having a total capacity of 24.6MW capacity with three Francis turbine of 8.2MW capacity each as could be verified from the implementation agreement /17/. The project activity was commissioned on 14/02/2021 as could be evidenced from the commissioning certificate /25/ The project capacity is 24.6 MW and hence falls in the Large scale category of project activities as per CDM. The project activity fall under SECTORAL SCOPE - 01 Energy industries (Renewable/Non-Renewable Sources) and has adopted ACM0002 Version 20.0 "Grid-connected electricity generation from renewable sources" methodology of CDM/11/ https://cdm.unfccc.int/methodologies/DB/XP2LKUSA61DKUQC0PIWPGWDN8ED5PG
Findings	The project activity is described in the PCN version 02 /6/ dated 10/07/2022 and is accepted by UCR
Conclusion	The project proponent has used the UCR approved template and meets the requirement of UCR standard /2/, UCR Program Manual /4/ & UCR Verification standard /2/. The project activity fall under SECTORAL SCOPE - 01 Energy industries (Renewable/Non-Renewable Sources) which is in the list of approved scopes as per UCR standard. The project activity does not fall under the ineligible methodologies given under Table 1 of UCR Standard. The project activity is commissioned after 1 Jan 2002 and so meets the requirement of Project Start Date as per UCR Standard. The verification period is from 15/02/2021 to 31/12/2021 and so meets the requirement of vintage as per UCR Standard. The project activity is meeting the requirements of UCR verification standard, UCR standard and complies with all requirements of UCR program,

General description of project activity

Means of Project Verification	PCN,MR,DPR,PPA, Implementation agreement, IREDA sanction
Findings	This project activity involves generation of electricity from the installation and operation of new run of the river hydro power project and exporting the energy to the grid. The projects activity consists of three turbines of 8.2 MW capacity each totalling to 24.60 MW located at Kafnu Village,Kinnaur district in the state of Himachal Pradesh in India.
Conclusion	The documents perused confirm that the project is as described in the PCN /6/ and MR /7/

Application and selection of methodologies and standardized baselines

(.a.i) Application of methodology and standardized baselines

Means of Project Verification	The project activity fall under SECTORAL SCOPE - 01 Energy industries (Renewable/Non-Renewable Sources) and has adopted ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources” https://cdm.unfccc.int/methodologies/DB/XP2LKUSA61DKUQC0PIWPGWDN8ED5PG
Findings	The appropriate approved methodology of CDM /15/ has been applied
Conclusion	The applied methodology meets the requirements of UCR. The latest version on the methodology ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources” /11/is applied and is valid.

(.a.ii) Clarification on applicability of methodology, tool and/or standardized baseline

Means of Project Verification	The applicability of the chosen large scale methodology ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources”, UCR Program standard and UCR verification standard for the project activity was verified.
Findings	The project activity complies with all the applicability conditions of the adopted methodology ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources”/11/. The project activity has adopted the emission factor of 0.9 tCO_2/MWh recommended by UCR for 2014-2020 for this monitoring period 15/02/2021 to 31/12/2021.
Conclusion	The monitoring period of the project activity is from 15/02/2021 to 31/12/2021.The UCR recommended emission factor does not cover the monitoring period. The latest CEA emission factor /27 for the is upto 2021 is also 0.9 tCO_2/MWh. So applying the UCR recommended emission factor throughout the monitoring period is considered as appropriate. The project activity complies with all the applicability conditions.

(.a.iii) Project boundary, sources and GHGs

Means of Project Verification	PCN,MR,PPA
Findings	The project boundary is clearly defined in the PCN and MR
Conclusion	The project boundary is clearly delineated in the PCN and meets the requirements of adopted methodology of ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources” and Project Eligibility Criteria and Guidance, UCR standard /2/

(.a.iv) Baseline scenario

Means of Project Verification	PCN, MR, General Project Eligibility Criteria and Guidance, UCR standard, adopted methodology of CDM ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources”, CEA data base to know the percentage of thermal power supplied to Indian Grid
Findings	The identified baseline scenario is verified to be correct
Conclusion	In the absence of the project activity, the equivalent amount of electricity would have been generated from the regional grid (which is connected to the unified Indian Grid system), which is carbon intensive due to predominantly sourced from fossil fuel-based power plants. Hence, baseline scenario of the project activity is the grid-based electricity system, The identified baseline scenario meets the requirements of General

	Project Eligibility Criteria and Guidance, UCR standard /2/ and UCR verification standard and the adopted methodology ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources” /11/.

(.a.v) Estimation of emission reductions or net anthropogenic removal

Means of Project Verification	JMR,UCR standard, CEA CO_2 data base and excel calculation sheet
Findings	Furnished information is verified to be correct
Conclusion	The net generation of electricity of the bundle project activity for the monitoring period matches with that in the JMR. The emission factor adopted is appropriate. The project emission during the monitoring period 15/02/2021 to 31/12/2021 is 2 tCO_{2eq} .The project emission reduction have been verified and is computed in a conservative manner. The net emission reduction for the monitoring period 15/02/2021 to 31/12/2021is 95,956 tCO_{2eq}

(.a.vi) Monitoring Report

Means of Project Verification	The JMR, calibration reports, MR & PCN
Findings	Furnished information is verified to be correct
Conclusion	The parameters grid emission factor is fixed ex ante and the net electricity exported to the grid are monitored as required by the adopted methodology of CDM ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources” The grid emission factor adopted is as per UCR standard for the period 2014-2020 is 0.9 t CO_2/MWh. The emission factor as per CEA data for 2020-21 /27/ is also 0.9 t CO_2/MWh. The project is equipped with diesel generator of 62.5 kVA to meet emergency requirements of electricity to Power House,the emissions from the usage of fossil fuel (Diesel) in the Diesel Generator is accounted as project emissions. The purchase quantity of diesel is used which is conservative in the computation of project emission. The mission factor of 74000 kg CO_2/TJ considered is as per IPCC. The density considered is as per the IS 1460:2017 which specification must be legally complied by all suppliers in India. So the density of 840kg/m^3 and NCV of diesel considered is 43.3 TJ/Gg as per IPCC 2006 and calculated based on the following equation. $PE_{diesel,y} = F_{d,y} * Density * NCV_i * COEF_{CO2} * OXID / 10^6$ The monitoring period considered is 15/02/2021 to 31/12/2021 and the emission factor adopted for the emission reduction calculations is appropriate. The calculation of CoU generated for the monitoring period is verified to be correct and has been done adopting a conservative approach. The monitoring report adopts the latest template of UCR and meets the requirements of UCR verification standard /2/.

Start date, crediting period and duration

Means of Project Verification	PCN, MR, Commissioning certificates, JMR
Findings	The furnished information is verified and it is found to be correct.

Conclusion	The monitoring period is from 15/02/2021 to 31/12/2021. The start date and the monitoring period are reported correctly and meet the requirements of the UCR general standard and verification standard.

Positive Environmental impacts

Means of Project Verification	PCN and interview
Findings	Nil. Furnished information is verified and found to be correct
Conclusion	The project activity does not adversely affect the environment and meets the requirements of UCR project and verification standards .

Project Owner- Identification and communication

Means of Project Verification	The PCN, PPA with HPSEBL,DPR acceptance letter, Implementation agreement, IREDA loan sanction letter and Commissioning Certificates
Findings	Nil. The furnished information is verified and found to be correct
Conclusion	The project owner is Panchhor Hydro Power Private Limited as verified from the PPA /15/, Commissioning communication/25/ and approval given to the project /17/.

Positive Social Impact

Means of Project Verification	Project activity has provided temporary employment to the local population during the construction phase of the project activity. Also few personnel have been employed permanently since commissioning of the project activity. The project is located in one of the backward areas and so the project activity has helped in its development. The electricity generated from the project will help mitigate the power crisis in the region. Project activity has created positive social impact in the region
Findings	Nil
Conclusion	Project has an overall positive social impact

Sustainable development aspects (if any)-N/A

Means of Project Verification	N/A
Findings	
Conclusion	

Internal quality control

The following ensure quality control of the verification

- It is ensured that there is no conflict of interest as the verifier has no other engagement related to the project activity either with the aggregator or with the project owner directly or otherwise.
- Verification activity is carried out by personnel with experience in the activity.

Project Verification opinion

The verification of the project activity titled “15/02/2021 to 31/12/2021” located in Village Kafnu,District Kinnaur, State of Himachal Pradesh in India is carried out based on the UCR Protocol for the monitoring period 15/02/2021 to 31/12/2021. The baseline of the project activity is with reference to UCR Protocol Standard Baseline adopted by the CDM Large Scale Methodology : ACM0002 Version 20.0 “Grid-connected electricity generation from renewable sources”

The verification is based on the Project concept note version 2 dated 10/07/2022 and Monitoring report version 2 dated 12/07/2022.

In my opinion, the emission reduction for the monitoring period is fairly stated and the emission reductions are calculated correctly as per the adopted methodology and UCR standard version 3.

I am able to certify the emission reduction from the project activity’ for the monitoring period 15/02/2021 to 31/12/2021 is 95,956 tCO_{2eq}

Abbreviations

Abbreviations	Full texts
CAR	Corrective Action Report
CDM	Clean Development Mechanism
CEA	Central Electricity Authority
CL	Clarification Request
CoU	Carbon offset Un its
DPR	Detailed Project Report
ER	Emission Reductions
FAR	Forward Action Request
GHG	Green House Gases
HPSEB	Himachal Pradesh State Electricity Board
JMR	Joint Meter Reading
kWh	Kilo Watt Hour
MWh	Mega Watt Hour
MR	Monitoring Report
N/A	Not Applicable
PA	Project Aggregator
PCN	Project Concept Note
PP	Project Proponent
PPA	Power Purchase Agreement
SDG	Sustainable Development Goal
tCO_2eq	Tonne of Carbon dioxide Equivalent
UCR	Universal Carbon Registry
VR	Verification Report
VS	Verification Statement

Competence of team members and technical reviewers

>>S.Ranganathan, holds a Bachelor's Degree in Chemical Engineering and has done diploma course in Management and completed the graduate ship course in Industrial Engineering and has an overall working experience of around thirty eight years. He has around twenty four years experience in Chemical process industry (fertilizer & petrochemical manufacturing) covering production, technical services including energy audits and efficiency studies, waste heat recovery, efficiency studies of boilers, power plants, safety audits and pollution control activities including waste water treatment, project management, corporate planning, sales, logistics in fertilizer & petrochemical industry. With respect to the thermal power plant the job assignment included the monitoring of flue gas exit temperatures, excess air used efficiency of fuel additives, condition of boiler refractory, insulation of steam lines etc. The experience also includes 5 years in process design & engineering for chemical process industry. He is qualified validator, verifier and Technical Reviewer for GHG projects (CDM, Gold Standard, VCS, UCR). He has completed the ISO lead auditor course on Quality Management System, Environmental Management System, Energy Management System, Occupational Health Safety Management System. His qualification, industrial experience and experience in CDM demonstrate his sufficient sectoral competence in areas of (a) 1.1 Thermal energy generation from fossil fuels and Biomass including thermal electricity from solar (b) 1.2 Energy generation from renewable energy sources (c) 2.2 Heat distribution (d) 5.1/11.1/12.1 Chemical Processes Industries and (e) 13.1 Waste handling and disposal.

He has done validation/verification and Technical review of over two hundred projects

Document reviewed or referenced

No	Author	Title	Reference	Provider

.			s to the document	
1	UCR	UCR Program Verification Guidance Document Ver 1.0 dated 08/2021	Verifier	Verifier
2	UCR	General Project Eligibility Criteria and Guidance UCR standard updated January 2022	Verifier	Verifier
3	UCR	Project Verification Report Form (VR) 2021	Verifier	Verifier
4	UCR	Universal Carbon Registry Program Manual (Ver 2.0)	Verifier	Verifier
5	UCR	Universal Carbon Registry Terms and Conditions Aug 2021	Verifier	Verifier
6	Aggregator	Project Concept Note Ver 2.0 dated 10/07/2022	Aggregator	Aggregator
7	Aggregator	Monitoring Report ver 2.0 dated 12/07/2022	Aggregator	Aggregator
8	Aggregator	Excel: Panchor-Generation Details and ER Calculations	Aggregator	Aggregator
9	Aggregator	Communication Agreement between Zenith Energy Private Limited and Panchhor Hydro Power Private Limited dated 07/02/2022	Aggregator	
10	Project Proponent	Double Accounting Assurance dated 16/06/2022	Aggregator	
11	UNFCCC	ACM 0002-Grid-connected electricity generation from renewable sources Version 20.0	Verifier	Verifier
12	UNFCCC	Tool 07 Tool to calculate the emission factor for an electricity system version 07.0 https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf	Verifier	Verifier
13	UNFCCC	Tool 03 Tool to calculate project or leakage CO2 emissions from fossil fuel combustion version 03.0 https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-03-v3.pdf	Verifier	
14	Nanal Energy	DPR by Nanal Energy (P) Ltd. Shimla Jan 2018	Project Proponent	Project Proponent
15	HPSEBL	PPA with HPSEBL dated 12/02/2021	Project Proponent	Project Proponent
16	Project Proponent	HP Government Forest Department-Land allocation letter.	Project Proponent	Project Proponent
17	Project Proponent	Implementation agreement with Government of Himachal Pradesh dated 11/12/2020	Project Proponent	Project Proponent
18	Project Proponent	Panchor Hydro Power Private Limited-Memorandrum of Association	Project Proponent	Project Proponent
19	IREDA	IREDA-Loan Sanction letter dated 25/07/2012	Project Proponent	Project Proponent
20	HPSEBL	JMR for the monitoring period	Project Proponent	Aggregator
21	PSPCL	Calibration certificate of meters issued by ME-Laboratory-PSPCL Jalandhar Rep ME/PSPCL/JAL/2021/T-04 dated 2/7/21 for meters 00210000059 & 00210000060 Rep ME/PSPCL/JAL/2021/T-04 dated 29/08/19 for meters 0019002786 & 0019002801	Project Proponent	Aggregator
22	Project Proponent	Local clearance for the project activity	Project Proponent	Aggregator
23	Project Proponent	Diesel consumption/purchase for the monitoring period-log book,purchase receipts	Project Proponent	Aggregator
24	Project Proponent	Photos of meter, equipment name plate and project site	Project Proponent	Aggregator
25	HPSEBL	Commencement of Commercial operation letter dated 17/02/2021	Project Proponent	Project Proponent
26	IPCC	Emission factor calorific value of diesel https://www.ipcc-	Verifier	

		nggip.iges.or.jp/public/2006gl/pdf/2_Volume2/V2_2_Ch2_Stationary_Combustion.pdf		
27	CEA	2020-21 CEA Database for grid emission factor	Verifier	
28	Aggregator	Photos of meters,name plate details of equipment's and project site	Project Proponent	
29	HPSPCB	Consent to establish dated 12/07/2012	Project Proponent	
30	Project Proponent	Annexure -1 Name Plate Details of equipment	Project Proponent	
31	UCR	Additional Verification Guidance for Large Hydel Projects Ver 1.0	UCR	
32	Gram Panchayat	MOU with Gram Panchayat	Project Proponent	
33	Project Proponent	Salary statement-Major local employess	Project Proponent	
34	Project Proponent	Photograph of construction of 5km link road from Yanga Pull to Village Homte	Project Proponent	
35	Project Proponent	Donation to Devata Mandir Committee of Gram Panchaayt Kafnoo	Project Proponent	
36	Project Proponent	Local Area Development Fund contribution	Project Proponent	
37	Project Proponent	RCC wall construction to protect bus stand	Project Proponent	
38	Project Proponent	Sponsorship of domicile student for technical education.	Project Proponent	
39	Project Proponent	Brief on social activities carried out	Project Proponent	
40	Project Proponent	Proof of payment made by PP to the Gram Panchayat	Project Proponent	

Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

CL ID	01	**Section no.**	A1 of the PCN	**Date:** 25/04/2022
Description of CL				
In the PCN dated 26/03/2022 under Section A.1. the details of evacuation of electricity generated to the grid is not detailed.				
Project Owner's response				**Date:** 10/07/2022
Evacuation arrangements of the project activity has been added in section A1 of the PCN				
Documentation provided by Project Owner				
PCN version 02 dated 10/07/2022				
UCR Project Verifier assessment				**Date:** 15/07/2022
In the PCN version 2.0 dated 10/07/2022,under section A1 Purpose of the project activity, the evacuation details of electricity generated is included. *CL-1 is closed.*				
CL ID	02	**Section no.**	A4 of PCN	**Date:** 25/04/2022
Description of CL				
In the PCN dated 26/03/2022 under Section A.4. the details of the number of turbines and their installation details are not furnished.				
Project Owner's response				**Date:** 10/07/2022
There are three number of turbines available at site each of capacity of 8.2 MW and speed is 750 rpm. Details of the same have been incorporated in section A4 of the PCN.				
Documentation provided by Project Owner				
PCN version 02 dated 10/07/2022				

UCR Project Verifier assessment				**Date:** 15/07/2022
In the PCN version 2.0 dated 10/07/2022,under section A4 Technologies the details of the turbine is included. *CL-2 is closed.*				
CL ID	03	**Section no.**		**Date:** 25/04/2022
Description of CL				
The Project Proponent to clarify if any, Diesel Generation set is installed at project site to meet emergency power requirements.				
Project Owner's response				**Date:** 10/07/2022
The project has one Diesel generator of 62.5 KVA, installed at the site for emergency power requirements Details of the same has been incorporated in section A4 of the PCN				
Documentation provided by Project Owner				
PCN version 02 dated 10/07/2022				
UCR Project Verifier assessment				**Date:** 15/07/2022
In the PCN version 2.0 dated 10/07/2022, under section A4 Technologies the details of the turbine is included. *CL-3 is closed*.				
CL ID	04	**Section no.**	B7 of PCN	**Date:** 25/04/2022
Description of CL				
Under section B7 of the PCN, it is not mentioned ,if there is any change to the crediting period.				
Project Owner's response				**Date:** 10/07/2022
No Change in crediting period. The same has been updated in section B7 of PCN				
Documentation provided by Project Owner				
PCN version 02 dated 10/07/2022				
UCR Project Verifier assessment				**Date:** 15/07/2022
In the PCN version 2.0 dated 10/07/2022, section B7 has been revised to mention that there is no change to the crediting period. *CL-4 is closed*.				
CL ID	05	**Section no.**	A of MR	**Date:** 25/04/2022
Description of CL				
In the MR version 01 dated 28/02/22 under section A, the details of evacuation of the electricity generated is not described.				
Project Owner's response				**Date:** 10/07/2022
Evacuation arrangements of the project activity has been added in the section A of the MR				
Documentation provided by Project Owner				
MR version 02 dated 10/07/2022				
UCR Project Verifier assessment				**Date:** 15/07/2022
In the revised MR version 02 dated 10/07/2022, under section A, the details of evacuation of the electricity generated have been included. *CL-5 is closed*				
CL ID	06	**Section no.**		**Date:** 25/04/2022
Description of CL				
Please clarify if all the generators, were commissioned on the same date or different dates. The supporting documents for the same to be made available.				
Project Owner's response				**Date:** 26/05/2022
All the three generators were commissioned on the same date, I.e., 15/02/2021. COD certificate is enclosed separately.				
Documentation provided by Project Owner				
HPSEB letter dated 17/02/21				
UCR Project Verifier assessment				**Date:** 05/06/2022

From the HPSEB letter dated 17/02/21 it is seen that all the three generators were commissioned on 15/02/2021 *CL-6 is closed*				
CL ID	07	**Section no.**	A.6. of MR	**Date:** 25/04/2022
Description of CL				
Under A.6. section of the MR, the full address is not available.				
Project Owner's response				**Date:** 12/07/2022
Contact Person full address is added in section A6 of the MR				
Documentation provided by Project Owner				
MR version 02 dated 12/07/2022				
UCR Project Verifier assessment				**Date:** 15/07/2022
In the revised MR version 02 dated 12/07/2022, under section A.6,the contact details of the Project Proponent and Aggregator are included. *CL-7 is closed*				
CL ID	08	**Section no.**	C.9. of MR	**Date:** 25/04/2022
Description of CL				
Under section C.9. of the MR comparison of the net emission reduction achieved during the monitoring period with that estimated in the PCN for the corresponding period is not detailed.				
Project Owner's response				**Date:** 12/07/2022
The estimated emission reductions for the monitoring period (15-02-2021 to 31-12-2021) is 98,633 tCO_2e. *The actual emission reduction achieved is* 95,956 tCO_{2eq}				
Documentation provided by Project Owner				
MR version 02 dated 12/07/2022				
UCR Project Verifier assessment				**Date:** 15/07/2022
In the revised MR version 02 dated 24/05/2022, under section C.9,the comparison with the estimated emission reductions and actual achieved have been made.The achieved emission reduction is 95,211 tCO_2e against the estimate of 98,633 tCO_2e. *CL-8 is closed*.				
CL ID	09	**Section no.**		**Date:** 25/04/2022
Description of CL				
The details of the meters including calibration are not available for the monitored parameter EGPJ,y. *The supporting documents to verify the net electricity exported is to be provided for the monitoring period*				
Project Owner's response				**Date:** 26/05/2022
JMRs are being provide as supporting document for the monitoring parameter EGPJ,y, long with calibration reports of the meters				
Documentation provided by Project Owner				
JMR for the monitoring period. Calibration certificate of meters				
UCR Project Verifier assessment				**Date:** 05/06/2022
The JMR & Calibration certificate of the meters have been provided. The net export of electricity considered for emission reduction calculation are based on the JMR.				

Table 2. CARs from this Project Verification

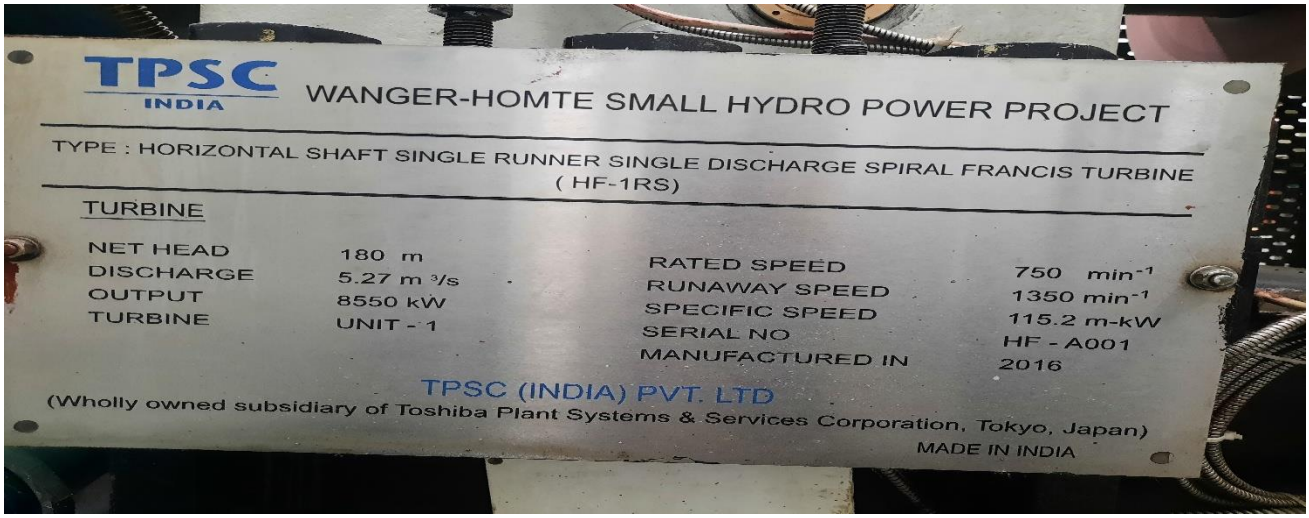
CAR ID	01	**Section no.**		**Date:** 25/04/2022
Description of CAR				
Under section B.8 Monitoring plan for the parameter EGpjy it is not clear in the PCN whether the same is being measured or calculated. If measured, the details of the meter, its accuracy class, calibration frequency along with calibration details are not available				
Project Owner's response				**Date:** 10/07/2022
EGpjy is measured a value through an energy meter. Details of the same are incorporated in PCN. Calibration reports of the same are also being furnished separately.				
Documentation provided by Project Owner				
PCN version 02 dated 10/07/2022				

UCR Project Verifier assessment				**Date:** 15/07/2022
In the revised PCN version 2.0 dated 10/07/2022,under B.8 Parameter EGPJ,y the meter details are included. *CAR-1 is closed*				
CAR ID	02	**Section no.**		**Date:** 25/04/2022
Description of CAR				
It is seen that the monitoring report is version dated 28/02/22 while the PCN is dated 26/03/22. The monitoring report is not seen to be based on the latest version of PCN.				
Project Owner's response				**Date:** 12/07/2022
The version no. and corresponding dates have been updated in PCN as well as Monitoring report				
Documentation provided by Project Owner				
PCN version 02 dated 10/07/2022 and MR Version 02 dated 12/07/2022				
UCR Project Verifier assessment				**Date:** 15/07/2022
The current version of PCN is version 2.0 dated 10/07/2022 and that of the monitoring report is version 02 dated 12/07/2022. *CAR-2 is closed*				
CAR ID	03	**Section no.**		**Date:** 25/04/2022
Description of CAR				
The estimated emission reduction for the monitoring period as per PCN and that mentioned in the monitoring report are different.				
Project Owner's response				**Date:** 26/05/2022
The estimated Emission reductions as per PCN is 1,12,856 tCO_2e per year, which for the monitoring period corresponds to 98,633 tCO_2e (CoU) .				
Documentation provided by Project Owner				
MR version 02 dated 12/07/2022				
UCR Project Verifier assessment				**Date:** DD/MM/YYYY
In the revised MR version 02 dated 12/07/2022,the estimated emission reduction has been revised based on the estimate given in the PCN Version 02 dated 10/07/2022. *CAR-3 is closed.*				
CAR ID	04	**Section no.**		**Date:** 25/04/2022
Description of CAR				
The social benefits from the project activity is not detailed in section B.2. of MR. The economic benefits may be listed.				
Project Owner's response				**Date:** 12/07/2022
Social benefits from the project have been incorporated in the section B2 of MR				
Documentation provided by Project Owner				
MR version 02 dated 12/07/2022				
UCR Project Verifier assessment				**Date:** 15/07/2022
In the revised MR version 02 dated 12/07/2022,under section B2,the details have been included. *CAR-4 is closed*				

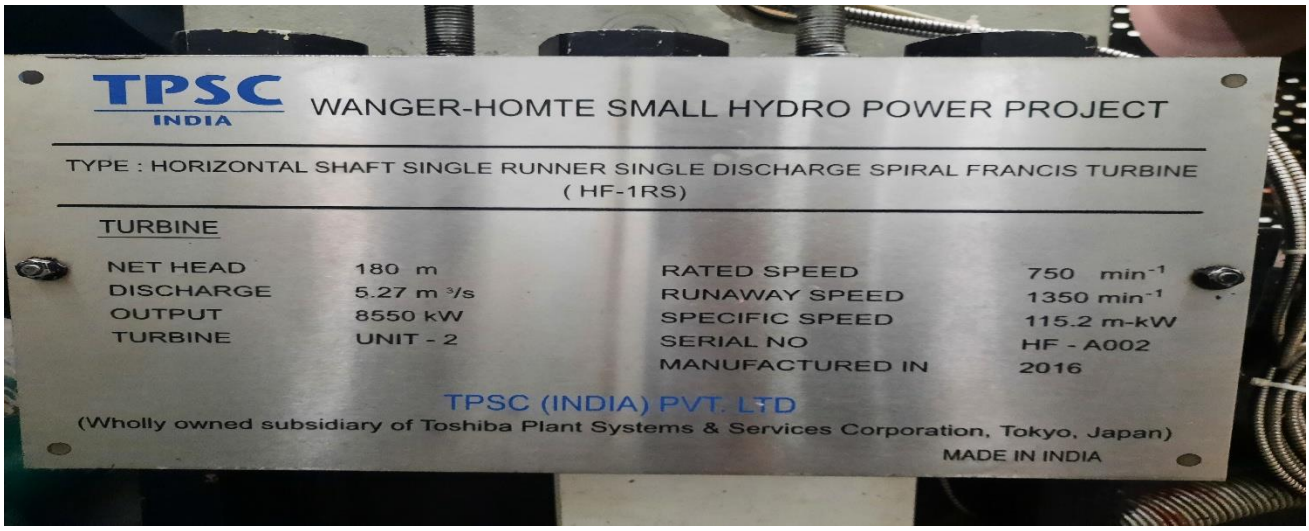
Table 3. FARs from this Project Verification

FAR ID	Xx	**Section no.**		**Date:** DD/MM/YYYY
Description of FAR				
No FAR raised in the verification				
Project Owner's response				**Date:** DD/MM/YYYY
Documentation provided by Project Owner				
UCR Project Verifier assessment				**Date:** DD/MM/YYYY

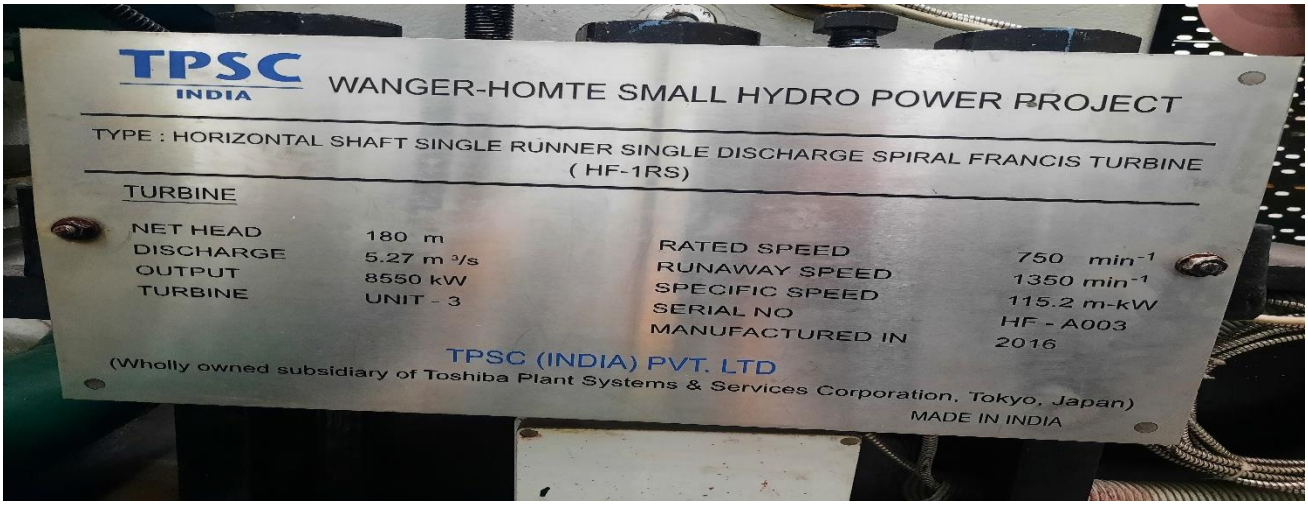
Annexure-1



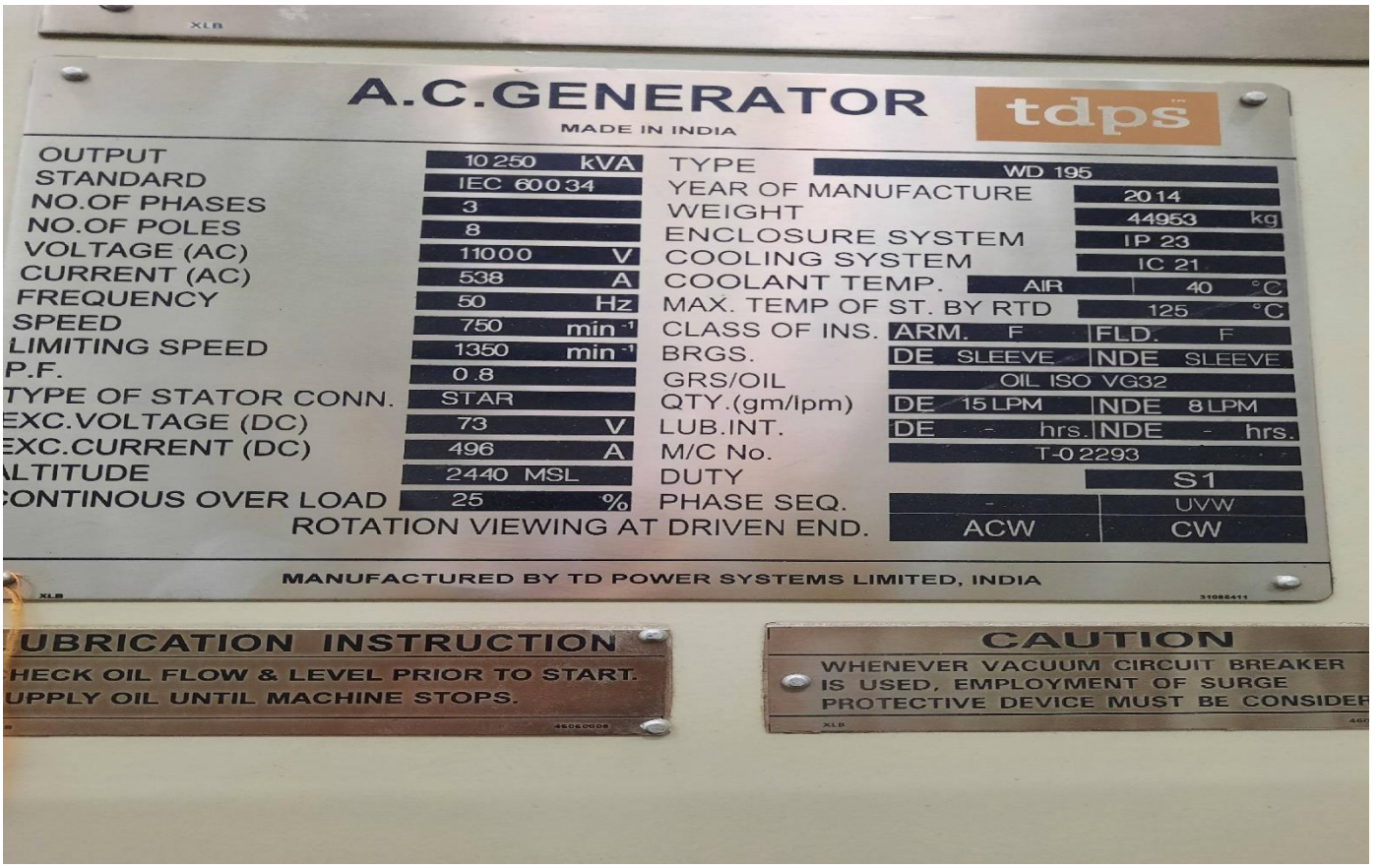
Unit-1 Turbine



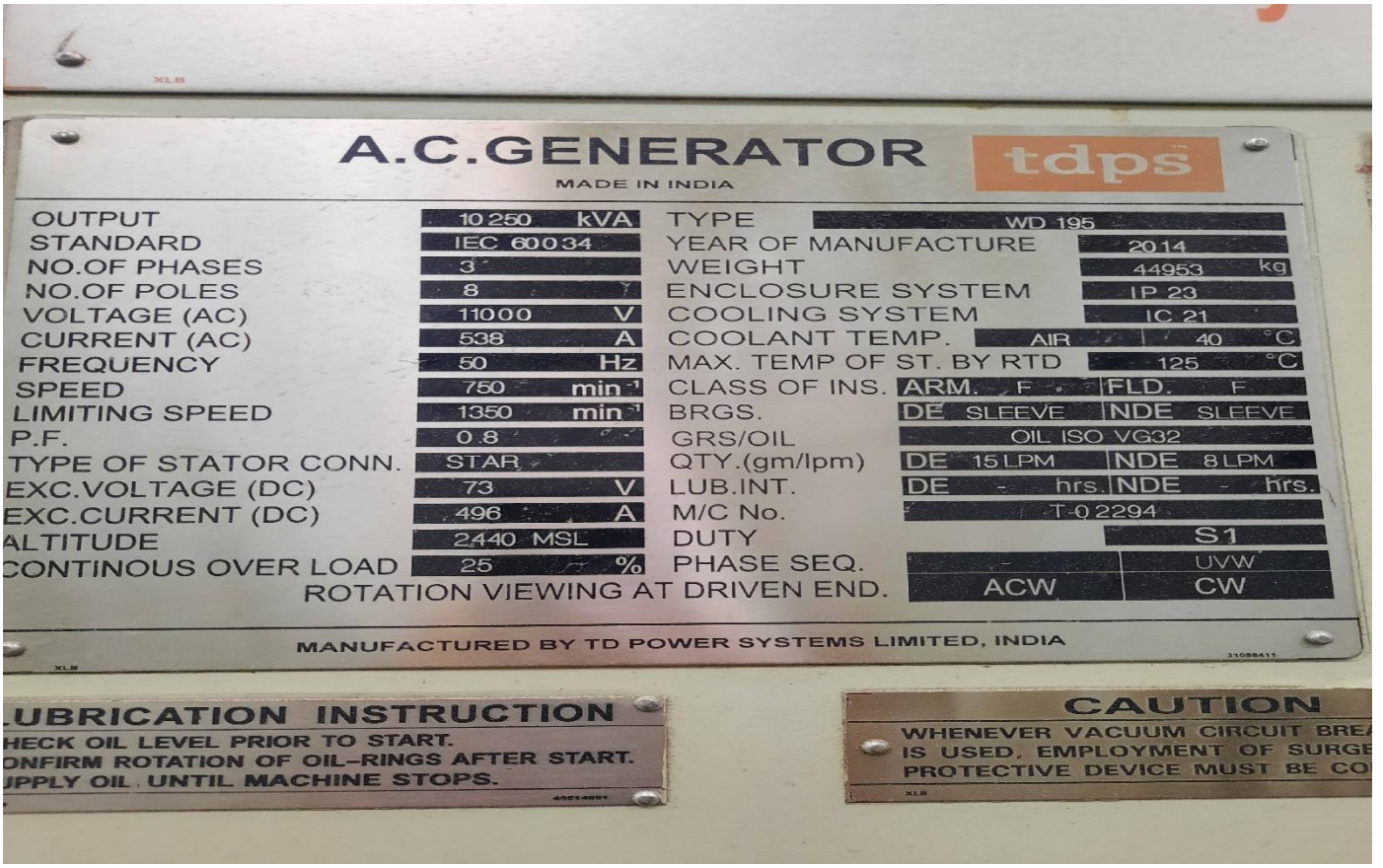
Unit-2 Turbine



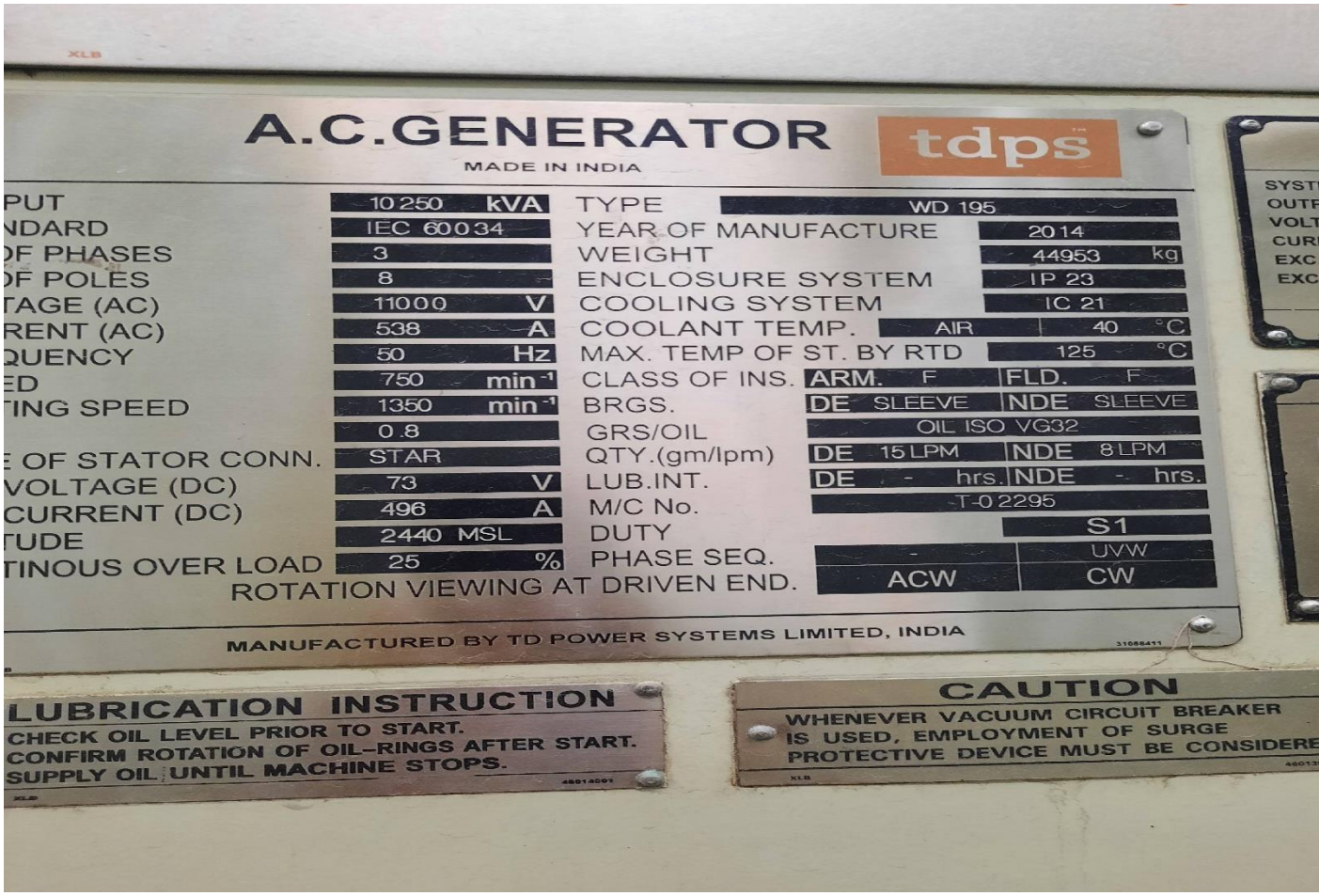
Unit-3 Turbine



Unit-1 Generator



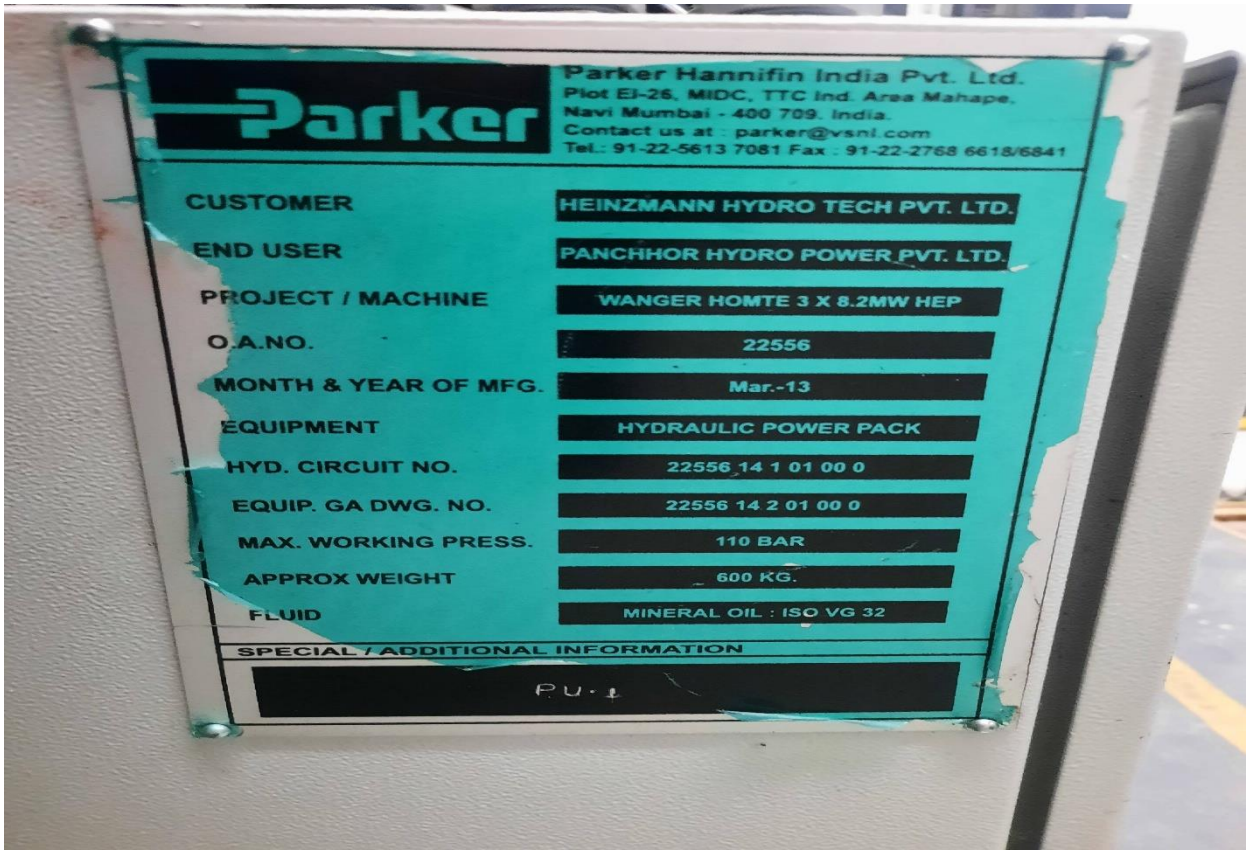
Unit-2 Generator



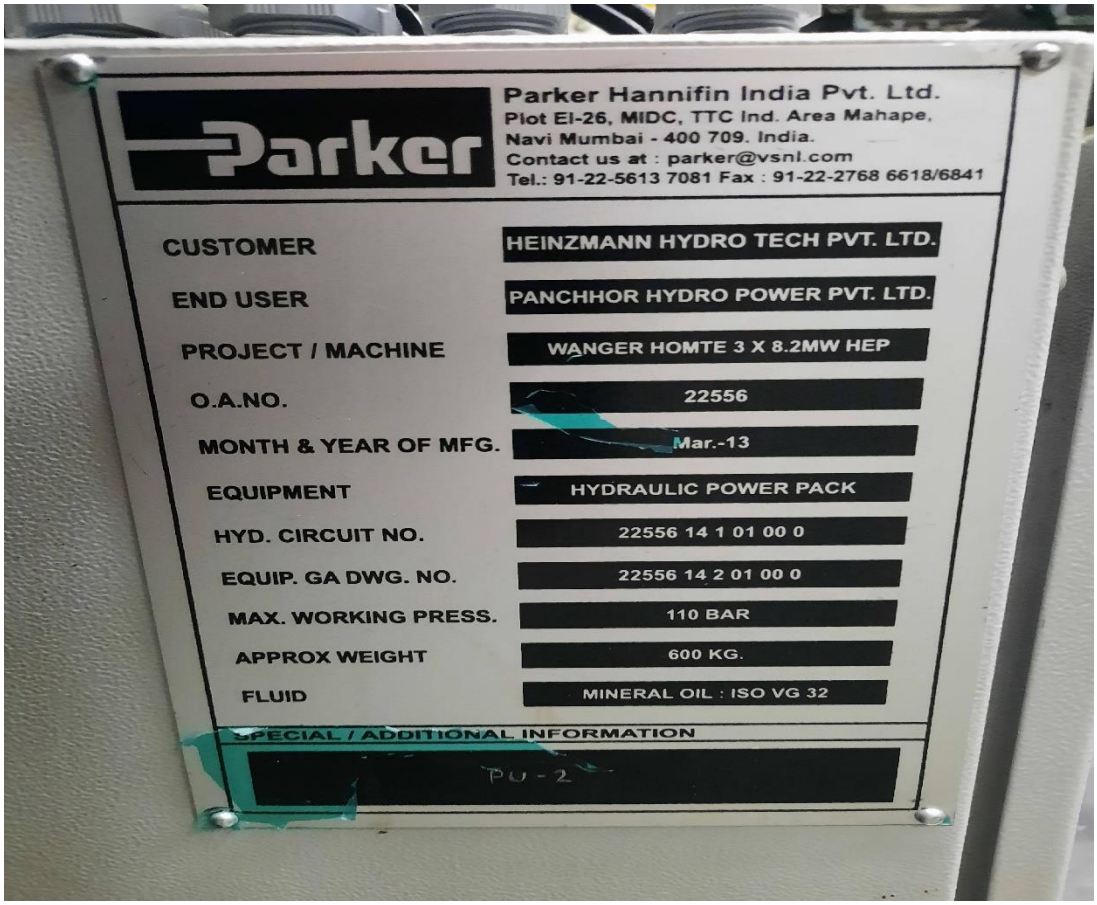
Unit-3 Generator


Parker
Parker Hannifin India Pvt. Ltd.
Plot El-26, MIDC, TTC Ind. Area Mahape,
Navi Mumbai - 400 709. India.
Contact us at : parker@vsnl.com
Tel.: 91-22-5613 7081 Fax : 91-22-2768 6618/6841
CUSTOMER
HEINZMANN HYDRO TECH PVT. LTD.
END USER
PANCHHOR HYDRO POWER PVT.LTD.
PROJECT / MACHINE
WANGER HOMTE 3 X 8.2MW HEP
O.A.NO.
19984
MONTH & YEAR OF MFG.
Mar.-13
EQUIPMENT
HTDRAULIC POWER PACK
HYD. CIRCUIT NO.
19984 12 1 01 00 0
EQUIP. GA DWG. NO.
19984 12 2 01 00 0
MAX. WORKING PRESS.
110 BAR
APPROX WEIGHT
600 KG.
FLUID
MINERAL OIL: ISO VG- 32
SPECIAL / ADDITIONAL INFORMATION

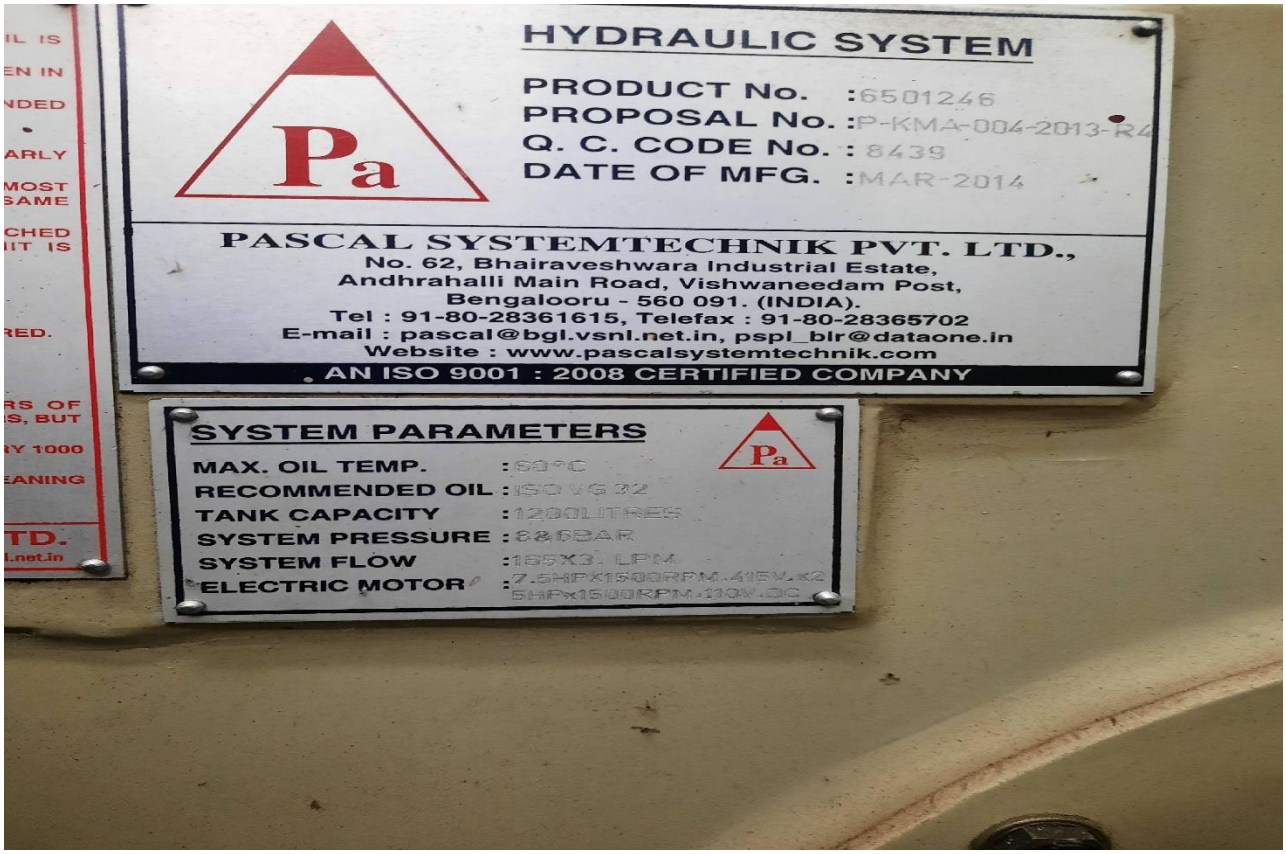
Unit-1 OPU


Parker
Parker Hannifin India Pvt. Ltd.
Plot El-26, MIDC, TTC Ind. Area Mahape,
Navi Mumbai - 400 709. India.
Contact us at : parker@vsnl.com
Tel.: 91-22-5613 7081 Fax : 91-22-2768 6618/6841
CUSTOMER
HEINZMANN HYDRO TECH PVT. LTD.
END USER
PANCHHOR HYDRO POWER PVT. LTD.
PROJECT / MACHINE
WANGER HOMTE 3 X 8.2MW HEP
O.A.NO.
22556
MONTH & YEAR OF MFG.
Mar.-13
EQUIPMENT
HYDRAULIC POWER PACK
HYD. CIRCUIT NO.
22556 14 1 01 00 0
EQUIP. GA DWG. NO.
22556 14 2 01 00 0
MAX. WORKING PRESS.
110 BAR
APPROX WEIGHT
600 KG.
FLUID
MINERAL OIL : ISO VG 32
SPECIAL / ADDITIONAL INFORMATION
PU-1

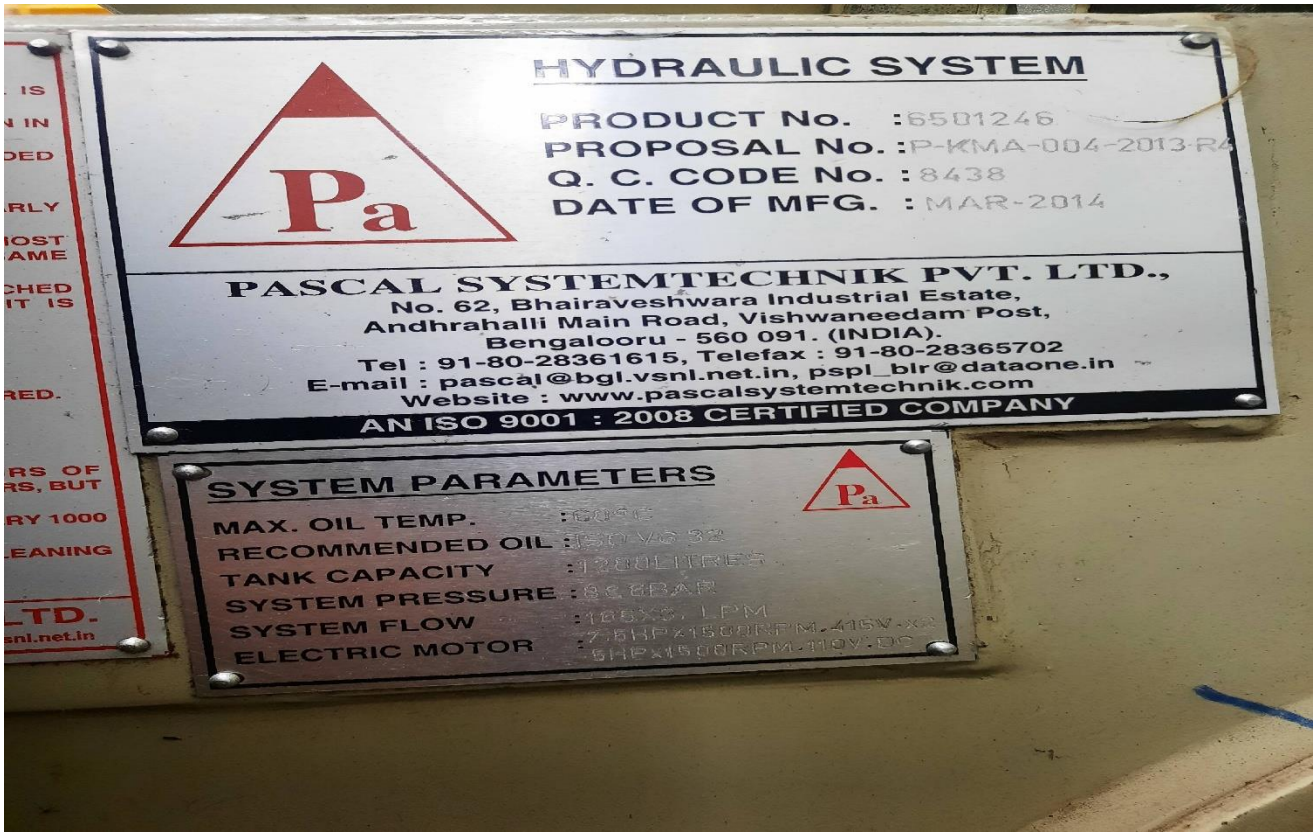
Unit-2 OPU

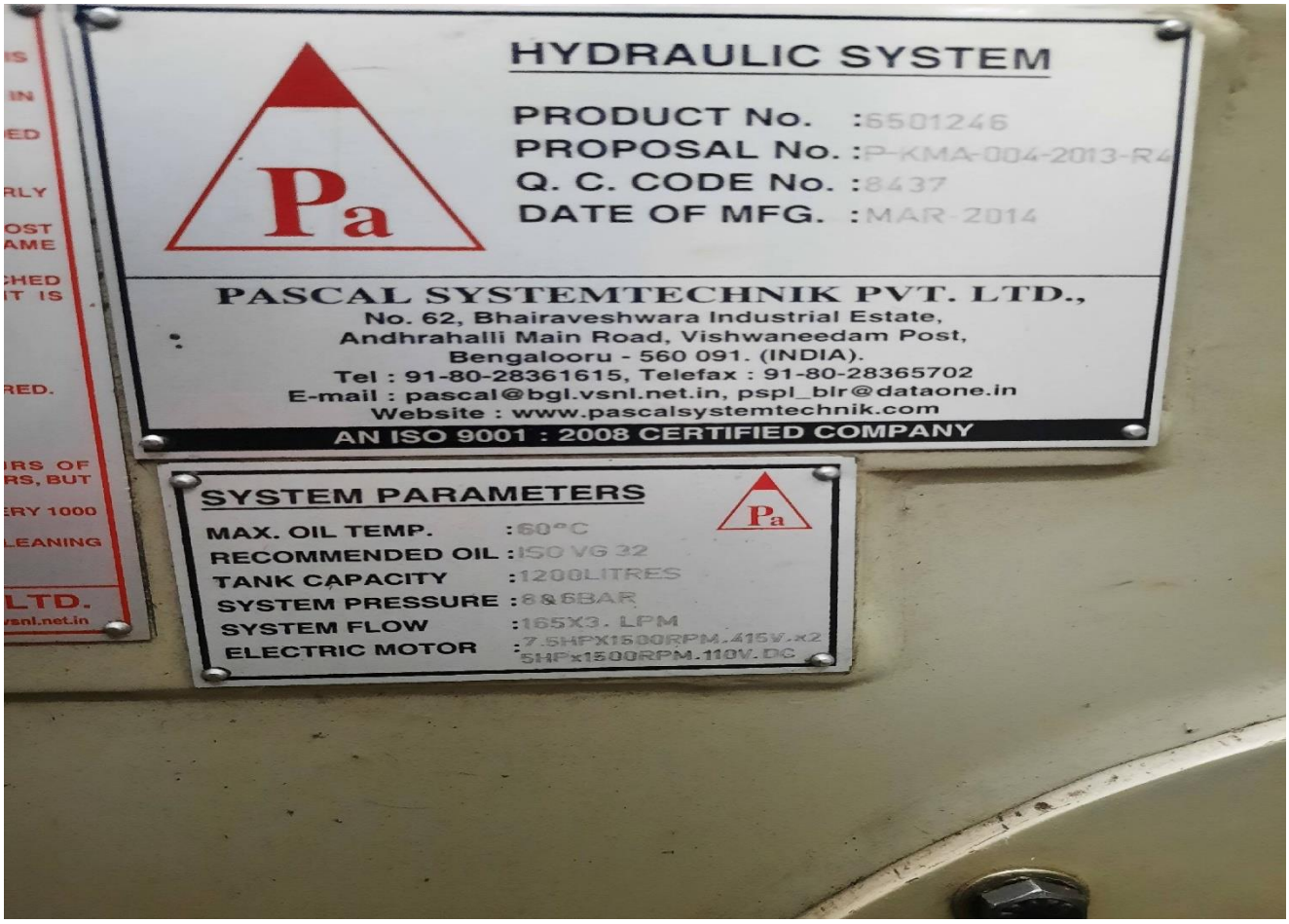

Parker
Parker Hannifin India Pvt. Ltd.
Plot El-26, MIDC, TTC Ind. Area Mahape,
Navi Mumbai - 400 709. India.
Contact us at : parker@vsnl.com
Tel.: 91-22-5613 7081 Fax : 91-22-2768 6618/6841
CUSTOMER
HEINZMANN HYDRO TECH PVT. LTD.
END USER
PANCHHOR HYDRO POWER PVT. LTD.
PROJECT / MACHINE
WANGER HOMTE 3 X 8.2MW HEP
O.A.NO.
22556
MONTH & YEAR OF MFG.
Mar.-13
EQUIPMENT
HYDRAULIC POWER PACK
HYD. CIRCUIT NO.
22556 14 1 01 00 0
EQUIP. GA DWG. NO.
22556 14 2 01 00 0
MAX. WORKING PRESS.
110 BAR
APPROX WEIGHT
600 KG.
FLUID
MINERAL OIL : ISO VG 32
SPECIAL / ADDITIONAL INFORMATION
PU-2

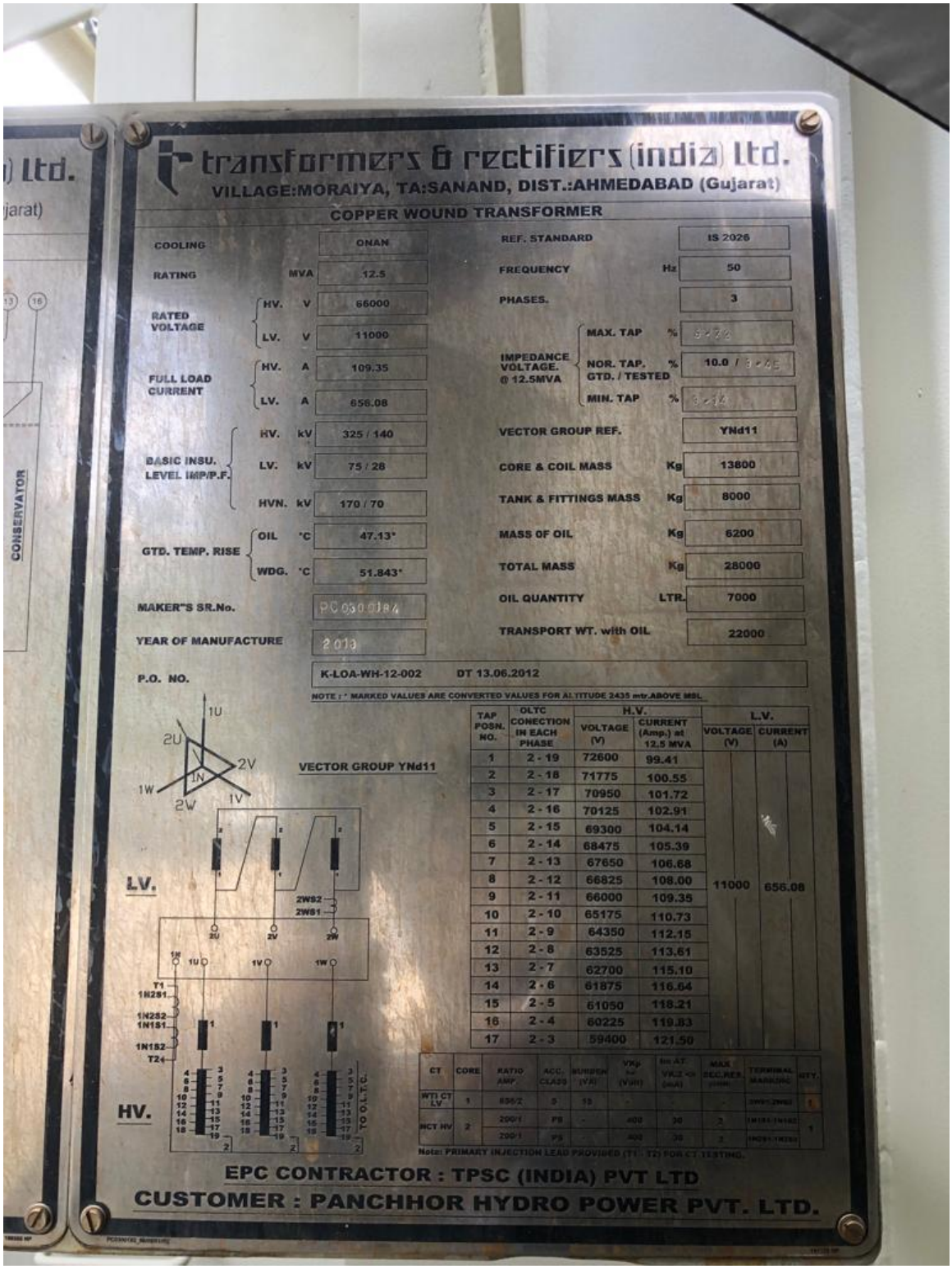
Unit-3 OPU


HYDRAULIC SYSTEM
PRODUCT No. :6501246
PROPOSAL No. :P-KMA-004-2013-R4
Q. C. CODE No. : 8439
DATE OF MFG. :MAR-2014
PASCAL SYSTEMTECHNIK PVT. LTD.,
No. 62, Bhairaveshwara Industrial Estate,
Andhrahalli Main Road, Vishwaneedam Post,
Bengalooru - 560 091. (INDIA).
Tel : 91-80-28361615, Telefax : 91-80-28365702
E-mail : pascal@bgl.vsnl.net.in, pspl_blr@dataone.in
Website : www.pascalsystemtechnik.com
AN ISO 9001 : 2008 CERTIFIED COMPANY
SYSTEM PARAMETERS
MAX. OIL TEMP. :60°C
RECOMMENDED OIL :ISO VG 32
TANK CAPACITY :1200LITRES
SYSTEM PRESSURE :8&6BAR
SYSTEM FLOW :165X3 LPM
ELECTRIC MOTOR :7.5HPX1500RPM,415V,x2
5HPx1500RPM,110V,DC

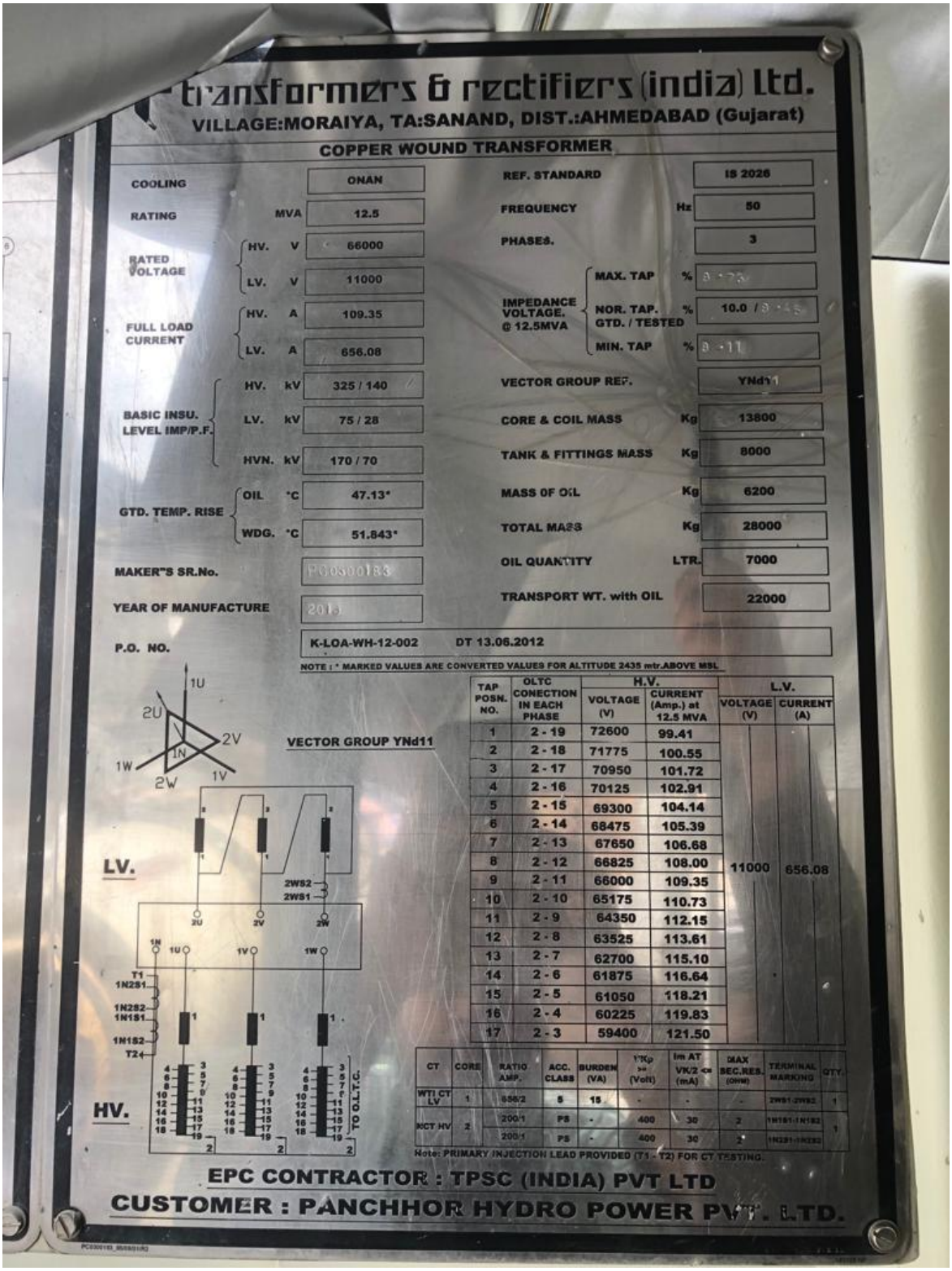
Unit-1 GLOP


HYDRAULIC SYSTEM
PRODUCT No. :6501246
PROPOSAL No. :P-KMA-004-2013-R4
Q. C. CODE No. :8438
DATE OF MFG. :MAR-2014
PASCAL SYSTEMTECHNIK PVT. LTD.,
No. 62, Bhairaveshwara Industrial Estate,
Andhrahalli Main Road, Vishwaneedam Post,
Bengalooru - 560 091. (INDIA).
Tel : 91-80-28361615, Telefax : 91-80-28365702
E-mail : pascal@bgl.vsnl.net.in, pspl_blr@dataone.in
Website : www.pascalsystemtechnik.com
AN ISO 9001 : 2008 CERTIFIED COMPANY
SYSTEM PARAMETERS
MAX. OIL TEMP.
RECOMMENDED OIL
TANK CAPACITY
SYSTEM PRESSURE
SYSTEM FLOW
ELECTRIC MOTOR


HYDRAULIC SYSTEM
PRODUCT No. :6501246
PROPOSAL No. :P-KMA-004-2013-R4
Q. C. CODE No. :8437
DATE OF MFG. :MAR-2014
PASCAL SYSTEMTECHNIK PVT. LTD.,
No. 62, Bhairaveshwara Industrial Estate,
Andhrahalli Main Road, Vishwaneedam Post,
Bengalooru - 560 091. (INDIA).
Tel : 91-80-28361615, Telefax : 91-80-28365702
E-mail : pascal@bgl.vsnl.net.in, pspl_blr@dataone.in
Website : www.pascalsystemtechnik.com
AN ISO 9001 : 2008 CERTIFIED COMPANY
SYSTEM PARAMETERS
MAX. OIL TEMP. :60°C
RECOMMENDED OIL :ISO VG 32
TANK CAPACITY :1200LITRES
SYSTEM PRESSURE :6&6BAR
SYSTEM FLOW :165X3. LPM
ELECTRIC MOTOR :7.5HPX1500RPM.415V.x2
5HPx1500RPM.110V.DC



Unit-1 Transformer

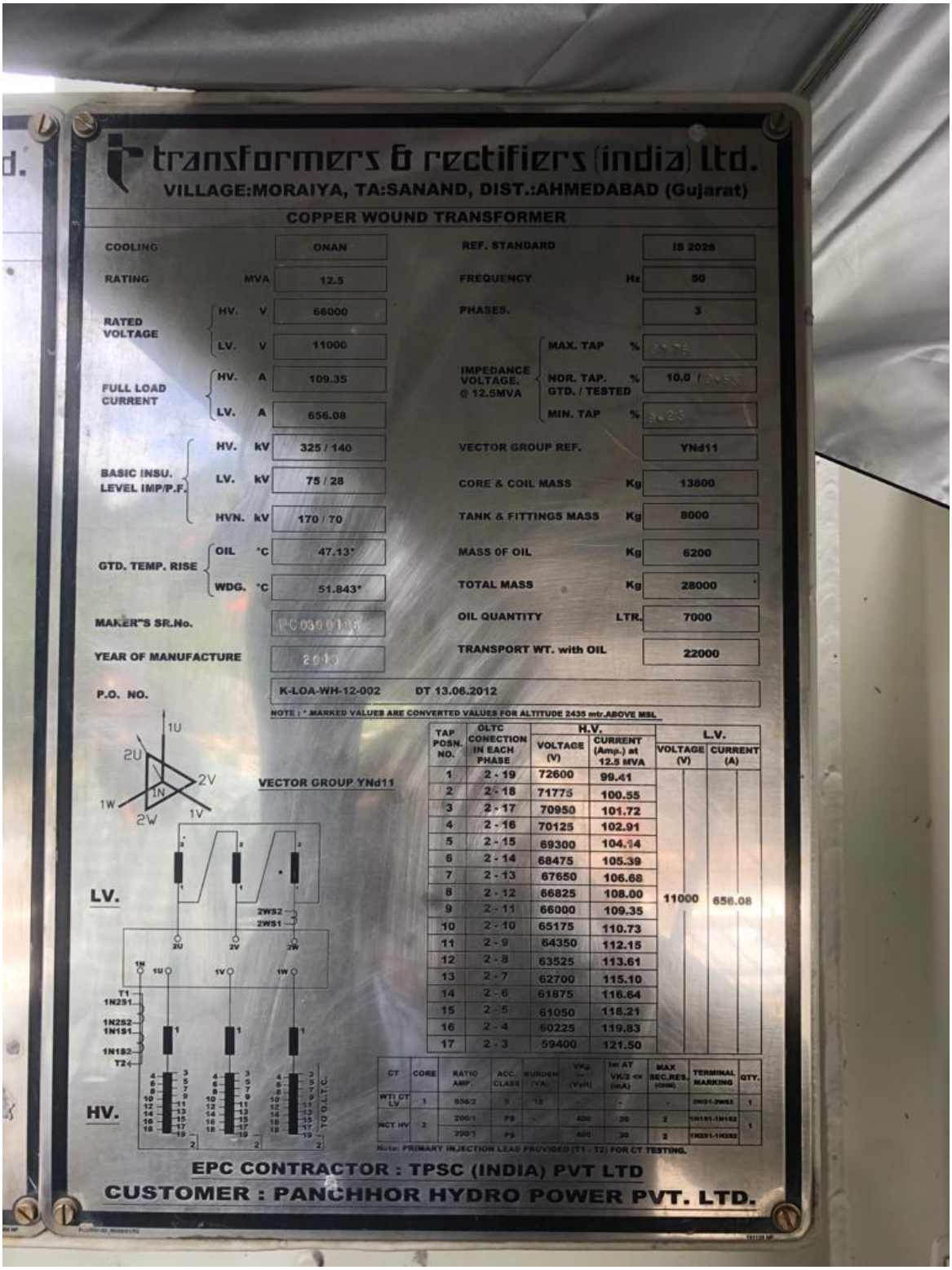


TAP POSN. NO.	OLTC CONECTION IN EACH PHASE	H.V. VOLTAGE (V)	H.V. CURRENT (Amp.) at 12.5 MVA	L.V. VOLTAGE (V)	L.V. CURRENT (A)
1	2 - 19	72600	99.41	11000	656.08
2	2 - 18	71775	100.55		
3	2 - 17	70950	101.72		
4	2 - 16	70125	102.91		
5	2 - 15	69300	104.14		
6	2 - 14	68475	105.39		
7	2 - 13	67650	106.68		
8	2 - 12	66825	108.00		
9	2 - 11	66000	109.35		
10	2 - 10	65175	110.73		
11	2 - 9	64350	112.15		
12	2 - 8	63525	113.61		
13	2 - 7	62700	115.10		
14	2 - 6	61875	116.64		
15	2 - 5	61050	118.21		
16	2 - 4	60225	119.83		
17	2 - 3	59400	121.50		

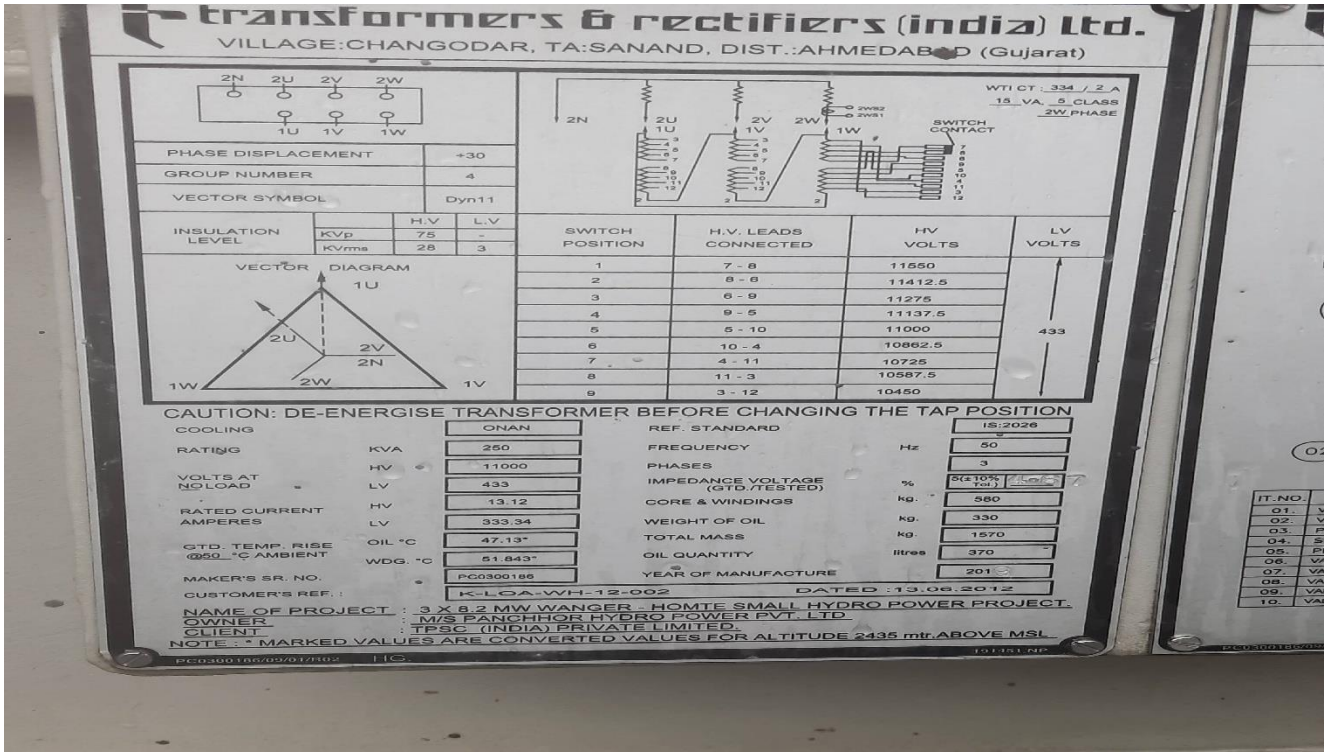
CT	CORE	RATIO AMP.	ACC. CLASS	BURDEN (VA)	VKp >= (Volt)	Im AT VK/2 <= (mA)	MAX SEC.RES. (OHM)	TERMINAL MARKING	QTY.
WTI CT LV	1	656/2	5	15	-	-	-	2WS1-2WS2	1
OCT HV	2	200/1	PS	-	400	30	2	1N1S1-1N1S2	1
		200/1	PS	-	400	30	2	1N2S1-1N2S2	

Note: PRIMARY INJECTION LEAD PROVIDED (T1 - T2) FOR CT TESTING.

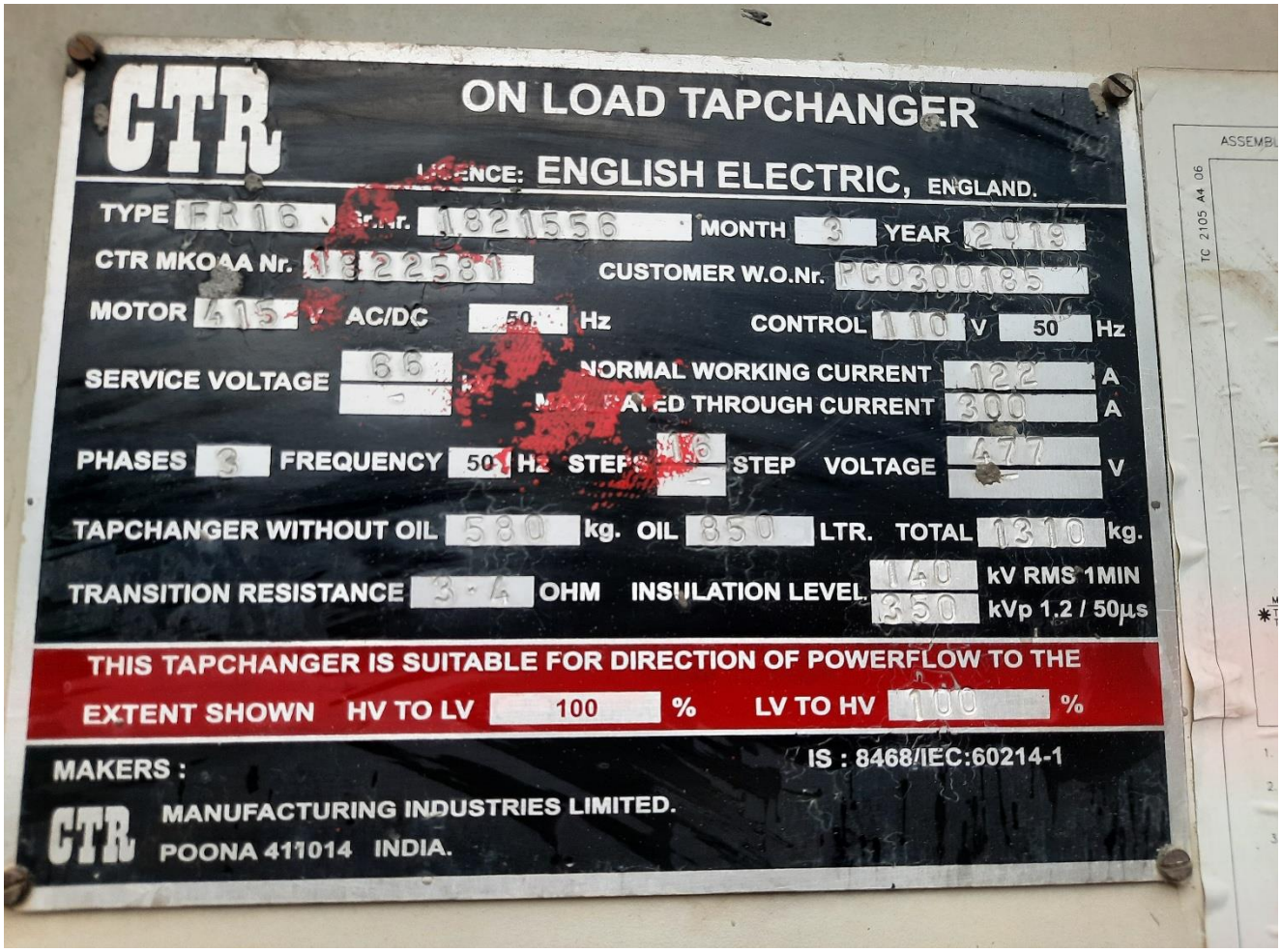
Unit-2 Transformer



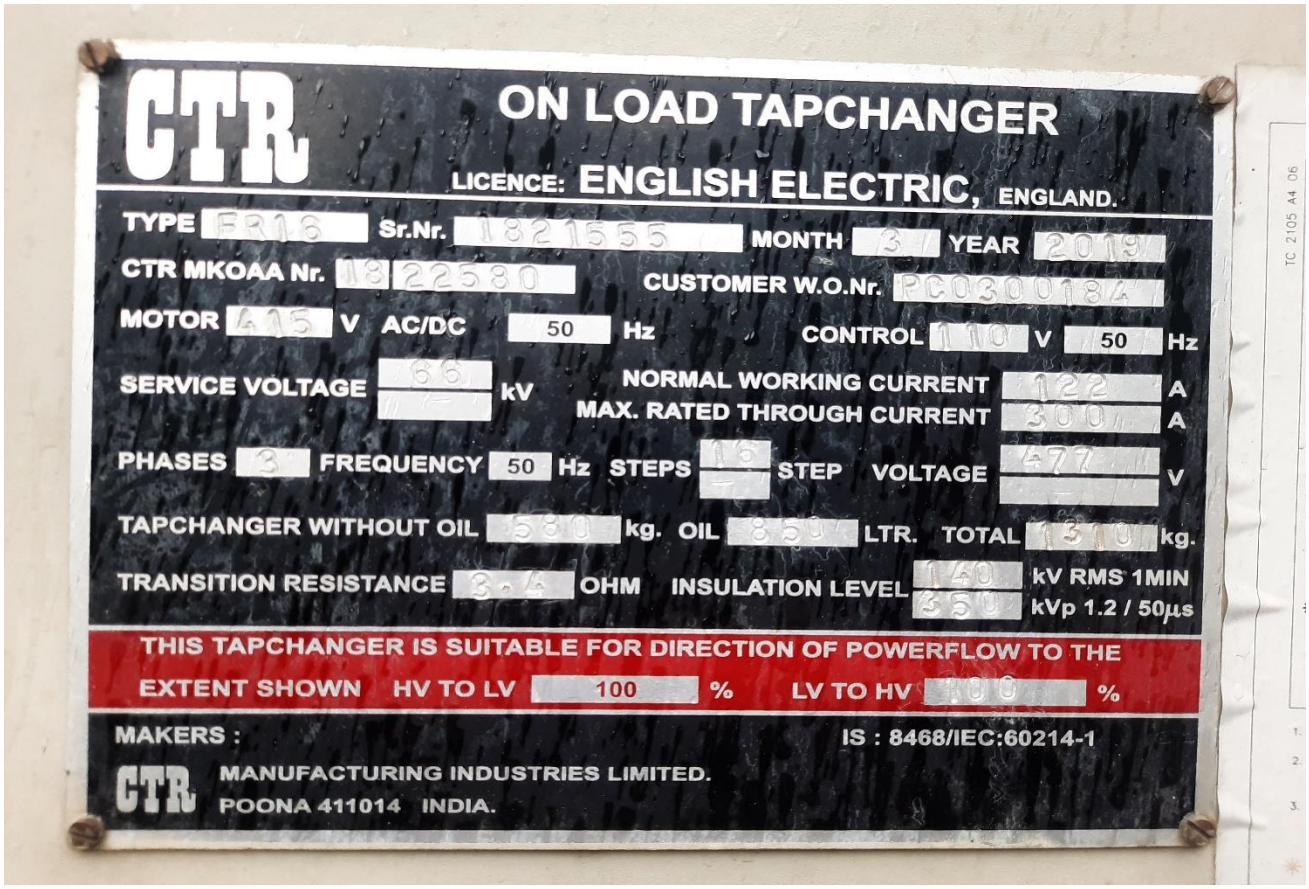
Unit-3 Transformer



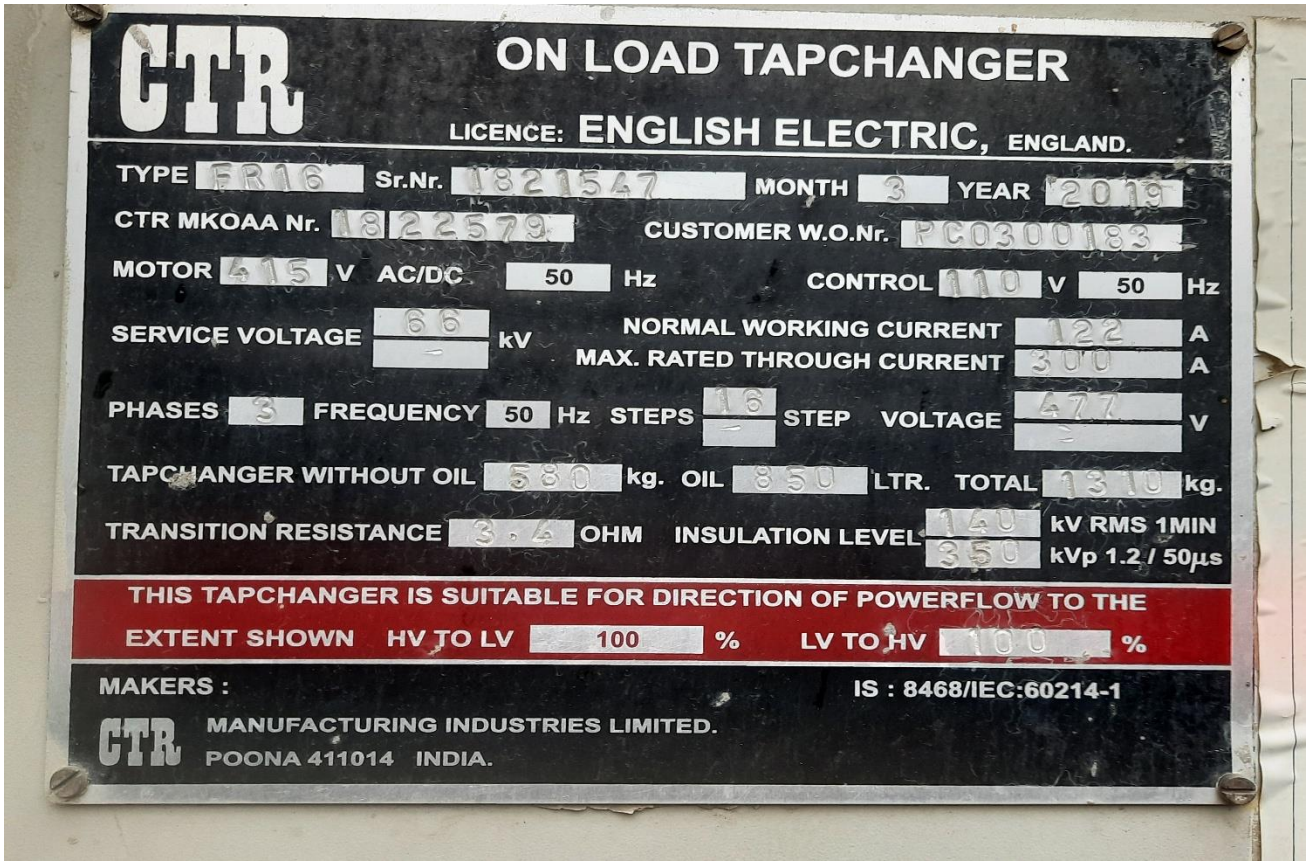
Aux. Transformer


CTR
ON LOAD TAPCHANGER
LICENCE: ENGLISH ELECTRIC, ENGLAND.
TYPE
MONTH 3 YEAR 2019
CTR MKOAA Nr.
CUSTOMER W.O.Nr.
MOTOR AC/DC 50 Hz
CONTROL V 50 Hz
SERVICE VOLTAGE
NORMAL WORKING CURRENT A
A
PHASES 3 FREQUENCY 50 Hz STEPS STEP VOLTAGE V
TAPCHANGER WITHOUT OIL kg. OIL LTR. TOTAL kg.
TRANSITION RESISTANCE OHM INSULATION LEVEL kV RMS 1MIN
kVp 1.2 / 50µs
THIS TAPCHANGER IS SUITABLE FOR DIRECTION OF POWERFLOW TO THE
EXTENT SHOWN HV TO LV 100 % LV TO HV %
MAKERS :
IS : 8468/IEC:60214-1
CTR
MANUFACTURING INDUSTRIES LIMITED.
POONA 411014 INDIA.

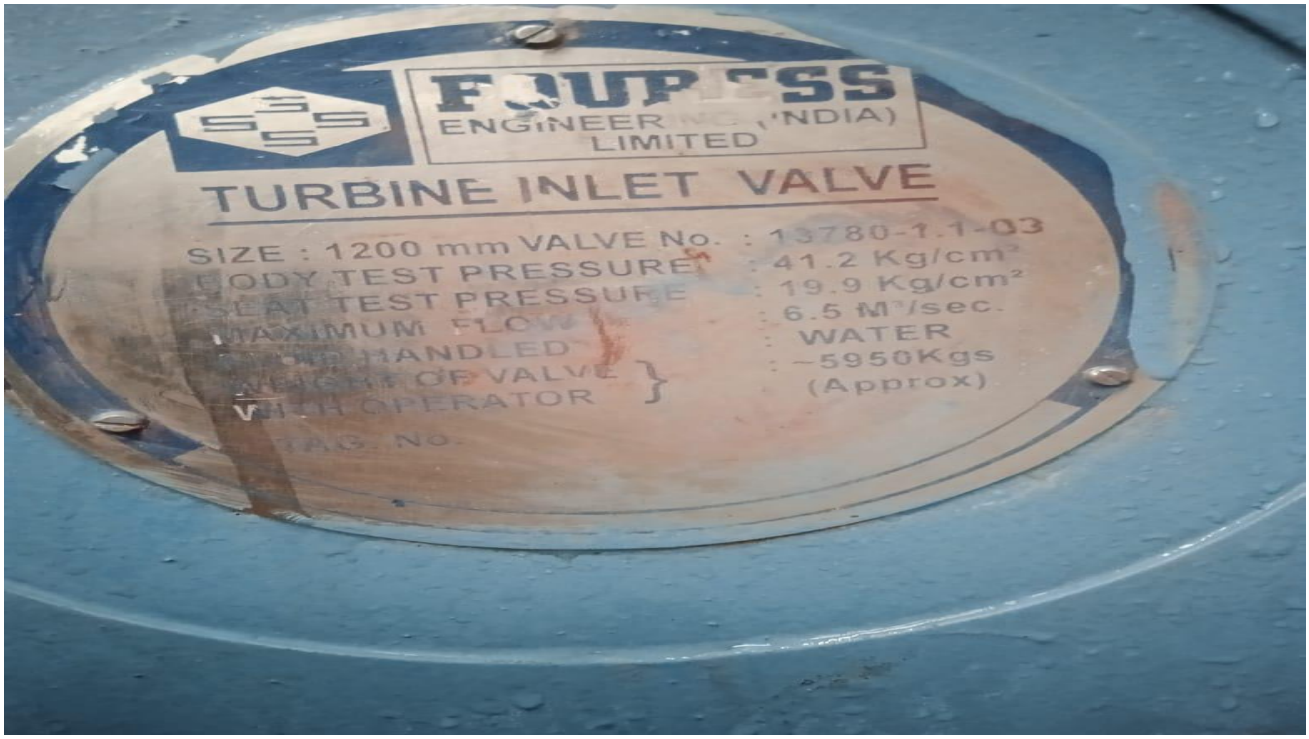
RTCC-1


CTR
ON LOAD TAPCHANGER
LICENCE: ENGLISH ELECTRIC, ENGLAND.
TYPE EB16 Sr.Nr. 1821555 MONTH 3 YEAR 2019
CTR MKOAA Nr. 13 22580 CUSTOMER W.O.Nr. PC0300184
MOTOR 415 V AC/DC 50 Hz CONTROL 110 V 50 Hz
SERVICE VOLTAGE 66 kV
NORMAL WORKING CURRENT 122 A
MAX. RATED THROUGH CURRENT 300 A
PHASES 3 FREQUENCY 50 Hz STEPS 15 STEP VOLTAGE 477 V
TAPCHANGER WITHOUT OIL 580 kg. OIL 350 LTR. TOTAL 1310 kg.
TRANSITION RESISTANCE 3.4 OHM INSULATION LEVEL 140 kV RMS 1MIN
350 kVp 1.2 / 50µs
THIS TAPCHANGER IS SUITABLE FOR DIRECTION OF POWERFLOW TO THE
EXTENT SHOWN HV TO LV 100 % LV TO HV 100 %
MAKERS :
IS : 8468/IEC:60214-1
CTR MANUFACTURING INDUSTRIES LIMITED.
POONA 411014 INDIA.

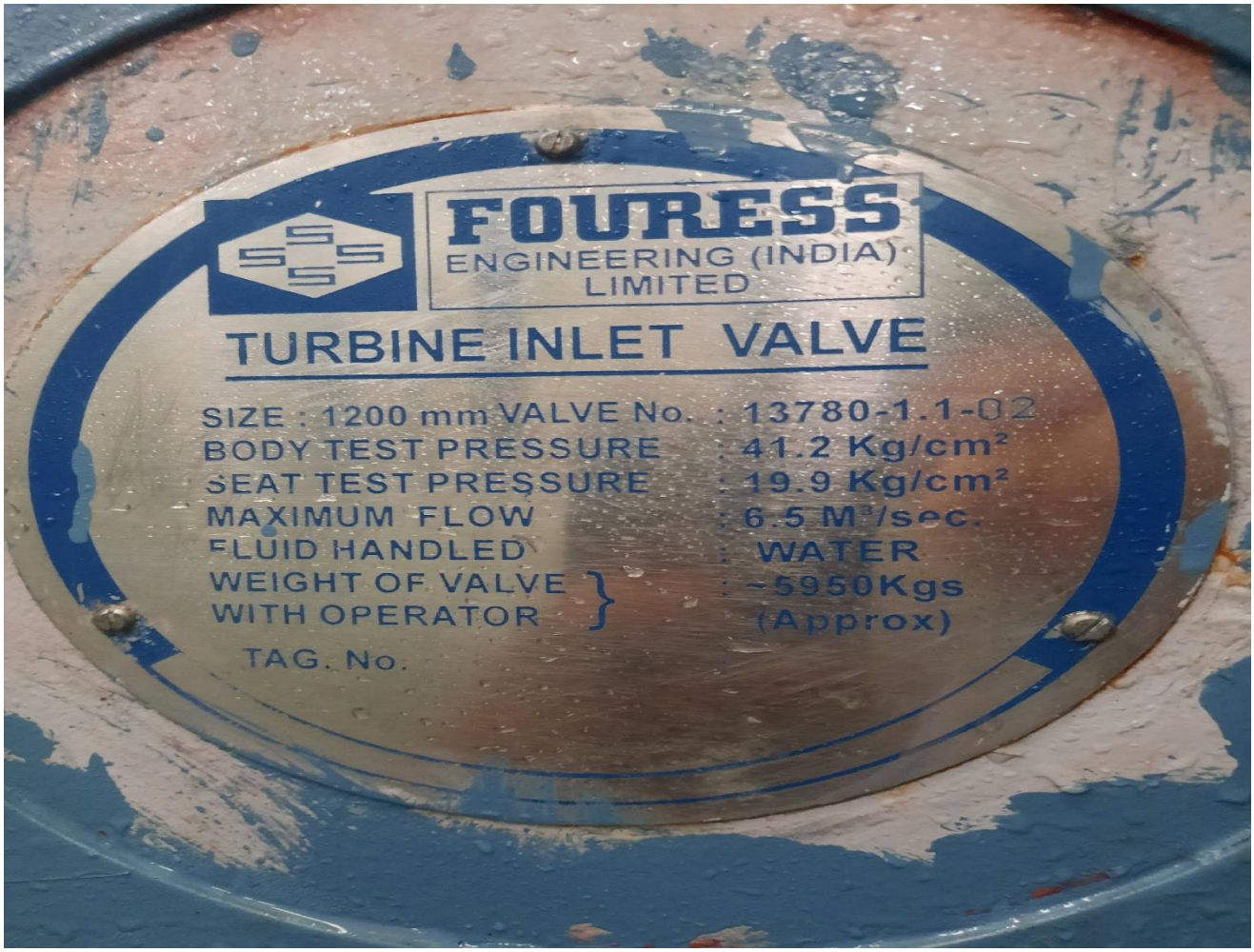
RTCC-2


CTR
ON LOAD TAPCHANGER
LICENCE: ENGLISH ELECTRIC, ENGLAND.
TYPE FR16 Sr.Nr. 1821547 MONTH 3 YEAR 2019
CTR MKOAA Nr. 18 22579 CUSTOMER W.O.Nr. PC0300183
MOTOR 415 V AC/DC 50 Hz CONTROL 110 V 50 Hz
SERVICE VOLTAGE 66 kV
NORMAL WORKING CURRENT 122 A
MAX. RATED THROUGH CURRENT 300 A
PHASES 3 FREQUENCY 50 Hz STEPS 16 STEP VOLTAGE 477 V
TAPCHANGER WITHOUT OIL 580 kg. OIL 850 LTR. TOTAL 1310 kg.
TRANSITION RESISTANCE 3.4 OHM INSULATION LEVEL 140 kV RMS 1MIN
350 kVp 1.2 / 50µs
THIS TAPCHANGER IS SUITABLE FOR DIRECTION OF POWERFLOW TO THE
EXTENT SHOWN HV TO LV 100 % LV TO HV 100 %
MAKERS :
IS : 8468/IEC:60214-1
CTR MANUFACTURING INDUSTRIES LIMITED.
POONA 411014 INDIA.

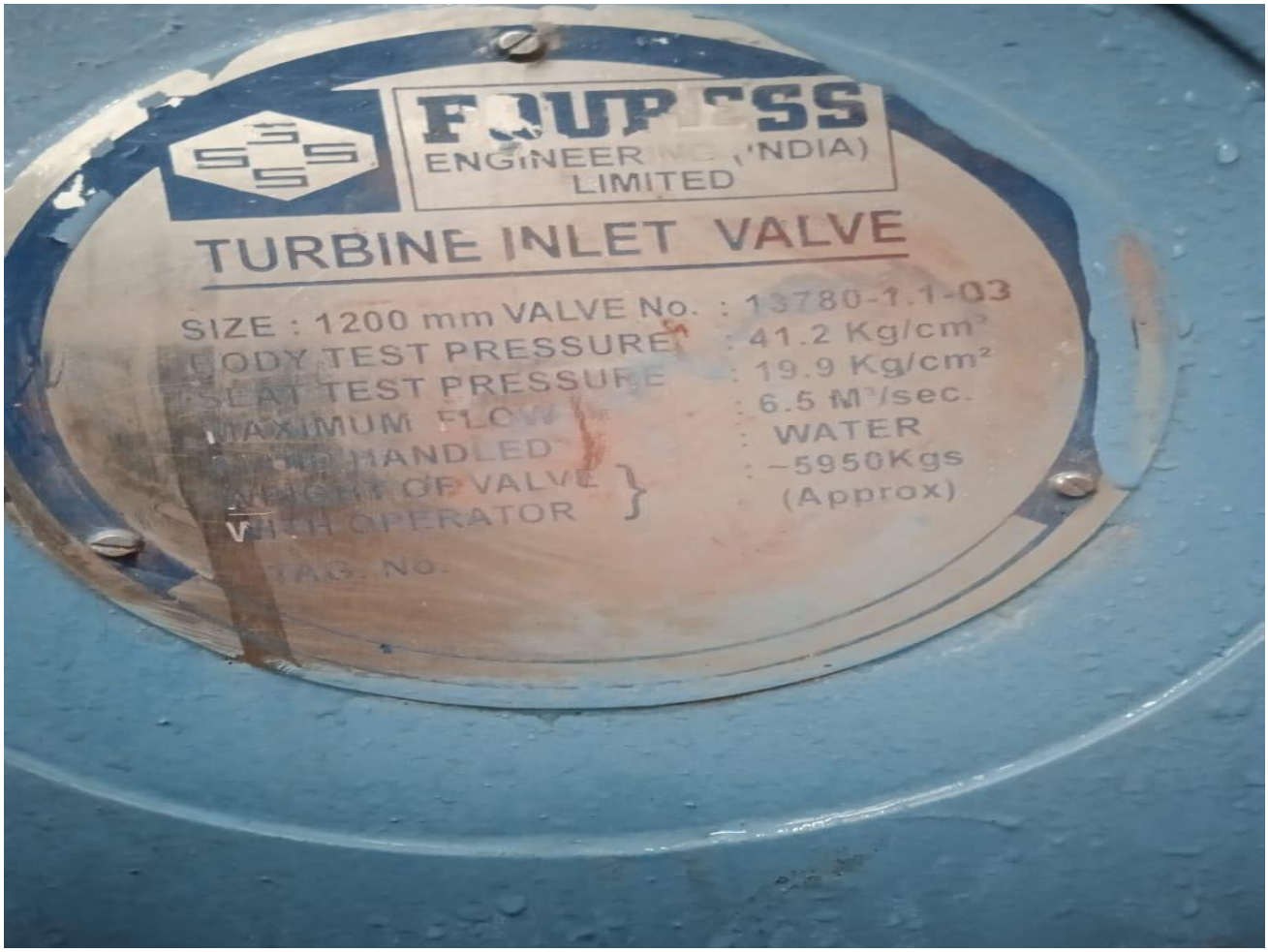
RTCC-3


ENGINEERS (INDIA)
LIMITED
TURBINE INLET VALVE
SIZE : 1200 mm VALVE No. : 13780-1.1-03
: 41.2 Kg/cm²
: 19.9 Kg/cm²
: 6.5 M³/sec.
: WATER
: ~5950Kgs
(Approx)

Unit-1 MIV



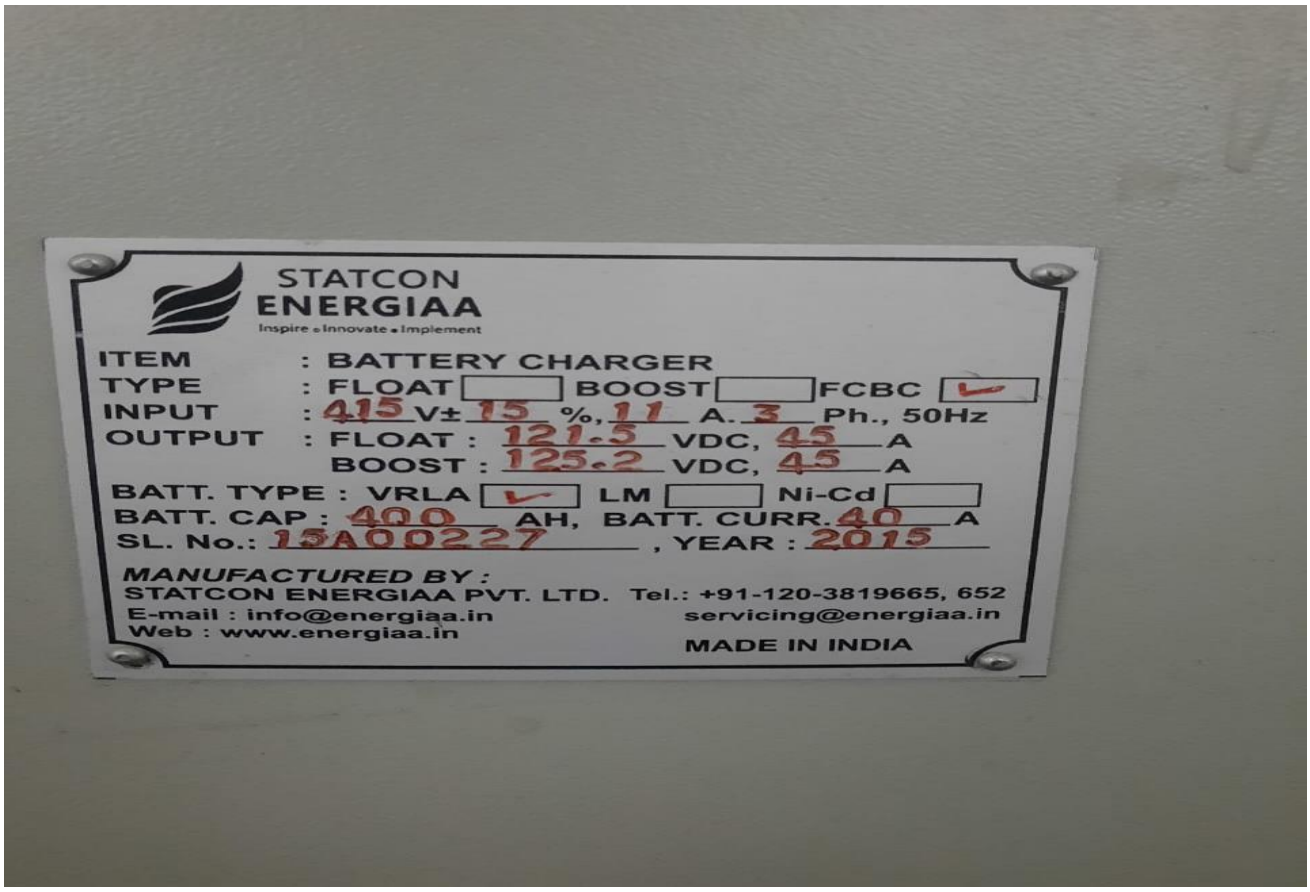
Unit-2 MIV


ENGINEER
LIMITED
TURBINE INLET VALVE
SIZE : 1200 mm VALVE No. : 13780-1.1-03
: 41.2 Kg/cm²
: 19.9 Kg/cm²
: 6.5 M³/sec.
: WATER
: -5950Kgs
(Approx)
TAG. No.

Unit-3 MIV


STATCON
ENERGIAA
Inspire • Innovate • Implement
ITEM : BATTERY CHARGER
TYPE : FLOAT [ ] BOOST [ ] FCBC [✓]
INPUT : 415 V± 15 %, 11 A. 3 Ph., 50Hz
OUTPUT : FLOAT : 121.5 VDC, 45 A
BOOST : 125.2 VDC, 45 A
BATT. TYPE : VRLA [✓] LM [ ] Ni-Cd [ ]
BATT. CAP : 400 AH, BATT. CURR. 40 A
SL. No.: 15A00226 , YEAR : 2015
MANUFACTURED BY :
STATCON ENERGIAA PVT. LTD. Tel.: +91-120-3819665, 652
E-mail : info@energiaa.in servicing@energiaa.in
Web : www.energiaa.in
MADE IN INDIA

FCBC-1


STATCON
ENERGIAA
Inspire • Innovate • Implement
ITEM : BATTERY CHARGER
TYPE : FLOAT [ ] BOOST [ ] FCBC [✓]
INPUT : 415 V± 15 %, 11 A. 3 Ph., 50Hz
OUTPUT : FLOAT : 121.5 VDC, 45 A
BOOST : 125.2 VDC, 45 A
BATT. TYPE : VRLA [✓] LM [ ] Ni-Cd [ ]
BATT. CAP : 400 AH, BATT. CURR. 40 A
SL. No.: 15A00227 , YEAR : 2015
MANUFACTURED BY :
STATCON ENERGIAA PVT. LTD. Tel.: +91-120-3819665, 652
E-mail : info@energiaa.in servicing@energiaa.in
Web : www.energiaa.in
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FCBC-2


STATCON
ENERGIAA
ITME : DISTRIBUTION BOARD
TYPE : AC DC
INPUT VOLTAGE : 110 V
SPECN./P.O. NO. :
SL. NO.: 15C01967 , YEAR : 2015
MANUFACTURED BY :
STATCON ENERGIAA PVT. LTD. Tel.: +91-120-3819665, 652
E-mail : info@energiaa.in servicing@energiaa.in
Web : www.energiaa.in
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DCDB

Annexure-2

Additional Verification for Large Hydel Projects

1.0 The UCR guidelines/31/ mandates that the Large Hydel Projects (>15 MW installed capacity) need to be scored against additional sustainability assessment based on the following criteria.

Scoring Criteria	
Level 1	Significant gaps relative to basic good practice
Level 2	Most relevant elements of basic good practice have been undertaken but there is one significant gap
Level 3	Describes basic good practice on the sustainability topic
Level 4	All elements of basic good practice have been undertaken and in one or more cases exceeded.
Level 5	Describes proven best practice on a particular sustainability issue that is demonstrable in multiple country contexts.

In the following paragraphs, the activities by the PP with respect to environment and social issue are discussed and the rating of the verifier on the above scale is mentioned for each of the parameter that are to be considered as per UCR guidance document for verification of Large Hydel Projects /31/

2.0 Environmental and Social Issues Management

The activities of the PP which has contributed to the environmental and social issues are :

- The project is a Run-of- the River type development without any storage of water. So there is no submersion of vast area of land or felling of trees etc to adversely impact the environment. The land for the project activity is allocated by the state government /16/.The local government clearance has been obtained by PP /22/

- All statutory clearances for the project has been obtained.

- Fish ladder is provided at the diversion weir and adequate provision made that the sufficient water is left in the river The diverted flow of water will be through Bhabha Khad which does not support aquatic life./6/7/

- The land is allocated by the state government on lease basis /16/ and as such there is no rehabilitation requirement.

Level of opinion : Level 3

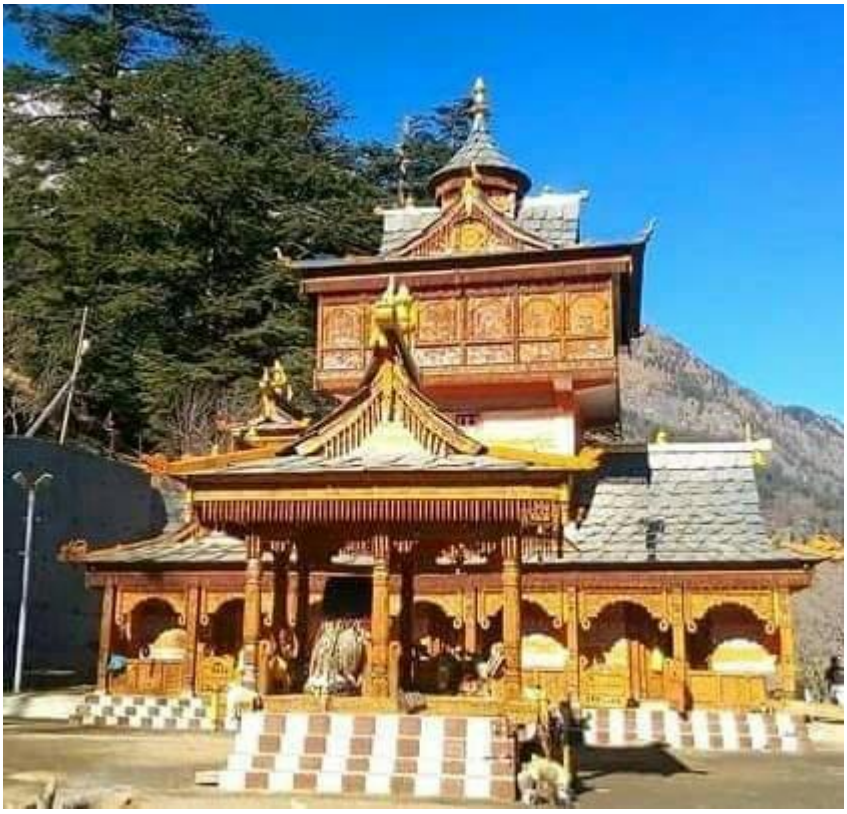
3.0 Project Benefits

The activities of the PP which has contributed to benefits from the project activity are :

- It could be seen from the salary statement that majority of the employees are from the state of Himachal Pradesh /33/

- The PP has constructed a link road of 20 feet wide and 5 KM long, from YANGPA PULL situated at bottom of village HOMTE PULL to village HOMTE and RCC wall.

- The PP has donated Rs.50 Lakh to Devata mandir committee, for development of the temple within the G.P. Katgoan /35/.



- The PP is sponsoring two domicile meritorious students (one from General and one from BPL) for technical education in Government colleges/38/.

Level of opinion : Level 4

4.0 Project –Affected Communities and Livelihoods and Resettlement :.

The activities of the PP which has contributed to mitigation of those impacted in the project area are :

- The project is a Run-of- the River type development without any storage of water. So there is no submersion of vast area to adversely impact the communities in the project area./6/7/17/. The project activity has improved the quality and duration of electricity availability in the region.
- It could be seen from the salary statement that majority of the employees are from the state of Himachal Pradesh /33/
- The PP has paid Rs 165 lakhs as pleasing amount to Gram Panchayat /40/ as the terms of MOU with the panchayat for permitting to establish the project activity /32/.

  The PP has entered an MOU with the Gram Panchayat which lists out the responsibilities of the PP towards the Gram Panchayat like contribution to welfare activities, building roads, providing street lights etc. During verification of the documents submitted, it is noted that the PP has complied with all the commitments made in the MOU and in certain cases has even exceeded.

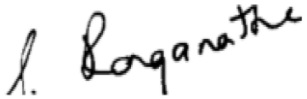
  Level of opinion: Level 4

5.0 Biodiversity and Invasive Species.

- The project does not have any storage structure and so there is no submergence normally associated with Hydel Projects.
- The project activity does not endanger the species of flora and fauna in the area. Fish ladder is provided at the diversion weir and adequate provision made to ensure that sufficient water is left in the river.

The PP is contributing towards the Local Area Development fund which is used for development of green belt, park etc /36/

Level of opinion: Level 3



Verifier : S.Ranganathan

Date : 21/08/2022