

## ANNEX R – PASSPORT TEMPLATE

### CONTENTS



- A. Project title**
- B. Project description**
- C. Proof of project eligibility**
- D. Unique Project Identification**
- E. Outcome stakeholder consultation process**
- F. Outcome sustainability assessment**
- G. Sustainability monitoring plan**
- H. Additionality and conservativeness deviations**
- Annex 1 ODA declarations**

## SECTION A. Project Title

### [See Toolkit 1.6]

Title: Zhongshan County Micro Hydro Project Bundle No.3

Date: 22/12/2017

Version no.: 01

## SECTION B. Project description

### [See Toolkit 1.6]

Project start date:

Zhongshan Dahe Hydropower Station: 9<sup>th</sup> March 2005

Liang'an Zhumei Stage II Hydropower Project: 20<sup>th</sup> April 2006

Honghuali Beicao Hydropower Project: 14<sup>th</sup> September 2005

The project consists three sub-components hydropower stations: Zhongshan Dahe Hydropower Project, Liang'an Zhumei Stage II Hydropower Project and Honghuali Beicao Hydropower Project, which are using hydropower resource to generate electricity. These three projects are all located within the Zhongshan county, Guangxi Province, P.R.China:

Zhongshan Dahe Hydropower Project: near Sancha village, Hua township of Zhongshan county

Liang'an Zhumei Stage II Hydropower Project: Zhoujianao village of Zhongshan county, Honghuali

Beicao Hydropower Project: Beicao village, Honghuali township of Zhongshan county.






The hydropower stations are all run-of-river type stations, each consists water retaining dikes, water diversion tunnels, press tubes and hydrologic turbines and generators. The main purpose of the project is to generate electricity and the electricity generated is delivered to local grid, and finally to the Southern China Power Grid(CSPG), displacing the electricity generation from fossil fuel based grid, thereby reducing the greenhouse gas (GHG) emissions.

## SECTION C. Proof of project eligibility

### C.1. Scale of the Project

#### [See Toolkit 1.2.a]

*Please tick where applicable:*

Project Type	Large	Small
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

	<input type="checkbox"/> ✓
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## C.2. Host Country

[See Toolkit 1.2.b]

People's Republic of China

## C.3. Project Type

[See Toolkit 1.2.c and Annex C]

Please tick where applicable:

Project type	Yes	No
Does your project activity classify as a Renewable Energy project?	<input checked="" type="checkbox"/> ✓	<input type="checkbox"/>
Does your project activity classify as an End-use Energy Efficiency Improvement project?	<input type="checkbox"/>	<input checked="" type="checkbox"/> ✓
Does your project activity classify as waste handling and disposal project?	<input type="checkbox"/>	<input checked="" type="checkbox"/> ✓

Please justify the eligibility of your project activity:

The project supply electricity by using hydropower resource to the grid, thus it can be classified as renewable energy supply. The total annual emission reduction of the project is less than 5000 tones thus it can be classified as Gold Standard micro scale project. The project is located in P. R. China, which is a UNFCCC eligible host country site. Because the project is replacing electricity generated from the fossil fuel dominated grid, it reduces CO<sub>2</sub> that would have been emitted by grid connected coal fire power station. CO<sub>2</sub> is one of the three greenhouse gases eligible under the Gold Standard. The project is privately owned by a number of individual Chinese investors, no ODA is flowed into this project. To conclude, the project meets all eligible categories under the Gold Standard eligibility Assessment, it should apply for the registry of Gold Standard Micro Scale Renewable Energy Supply Project.

Pre Announcement	Yes	No
Was your project previously announced?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Explain your statement on pre announcement The owners of the three stations started to seek for CDM development partner since 2005. They assigned a local small hydro association to take care of their CDM project development. Although the CDM project development was not going smoothly due to the very small project size, the owners of these stations have been actively looking for carbon revenue and finally signed GS VER ERPA's with Swiss Carbon Value Ltd.		

#### C.4. Greenhouse gas

[See Toolkit 1.2.d]

Greenhouse Gas	
Carbon dioxide	<input checked="" type="checkbox"/>
Methane	<input type="checkbox"/>
Nitrous oxide	<input type="checkbox"/>

#### C.5. Project Registration Type

[See Toolkit 1.2.f]

Project Registration Type	
Regular	<input type="checkbox"/>

	Retroactive projects	Preliminary evaluation (eg: Large	Rejected by UNFCCC
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Pre-feasibility assessment	(T.2.5.1)	Hydro or palm oil-related project (T.2.5.2)	(T2.5.3)
	<input type="checkbox"/> ✓	<input type="checkbox"/>	<input type="checkbox"/>

**If Retroactive, please indicate Start Date of project activity dd/mm/yyyy:**

Zhongshan Dahe Hydropower Station: 9th March 2005

Liang'an Zhumei Stage II Hydropower Project: 20th April 2006

Honghuali Beicao Hydropower Project: 14th September 2005

## SECTION D. Unique project identification

### D.1. GPS-coordinates of project location

[See Toolkit 1.6]

#### Zhongshan Dahe Hydropower Project

	Coordinates
Latitude	24° 39' 09" N
Longitude	111° 03' 49" E

#### Liang'an Zhumei Stage II Hydropower Project

	Coordinates
Latitude	24° 40' 26" N
Longitude	110° 12' 26" E

#### Honghuali Beicao Hydropower Project

	Coordinates
Latitude	24° 38' 00" N
Longitude	111° 09' 01" E



*Explain given coordinates*

The GPS coordinates are for powerhouse of the each station.

### D.2. Map

[See Toolkit 1.6]



## SECTION E. Outcome stakeholder consultation process

### E.1. Assessment of stakeholder comments

**[See Annex J]**

[See Local Stakeholder Consultation Report B.5 and insert table from “C.3.iii Assessment of all comments”. Insert a summary of alterations based on comments]

As the project is a retroactive project, no local stakeholder consultation had been organized subjected to the Gold Standard requirement until the date of application to Gold Standard.

**E.2. Stakeholder Feedback Round**

Please describe report how the feedback round was organized, what the outcomes were and how you followed up on the feedback.

**Organisation and Process of the Stakeholder Feedback Round**

The invitation to the stakeholder feedback round was sent to local stakeholders, NGOs, and authorities via poster and email on the 2nd of March 2012. The invitation includes a web link to the project page on the Gold Standard website, which makes our project information can be seen to our invited participants. A two months period was open for the invited participants to send us their comment regarding the project.

Category code	Organisation (if relevant)	Name of invitee	Way of invitation	Date of invitation	Confirmation received? Y/N
A	Local villagers	See below description	Poster advertisement and oral notice	2012-04-9	Y
B	Officials of Local NDRC	Anonymous	Email	2012-03-02	N
B	Project	HUANG	Email	2012-03-02	N

	participant	Zhuo			
C	REEEP	Anonymous	Email	2012-03-02	N
D	Mercycorps	Anonymous	Email	2012-03-02	N
D	Gold Standard	Anonymous	Email	2012-03-02	N
E	Helio- International	Anonymous	Email	2012-03-02	N
F	WWF	Anonymous	Email	2012-03-02	N
H	PCD (HK NGO)	Anonymous	Email	2012-03-02	N
G	Green Guangxi (Chinese Local NGO)	Anonymous	Email	2012-03-02	N

From: Xiaoxi Huang  
Subject: Invitation for Gold Standard Stakeholder Feedback Round of "Zhongshan County Micro Hydro Project Bundle No.1", "Zhongshan County Micro Hydro Project Bundle No.2", "Zhongshan County Micro Hydro Project Bundle No.3", "Zhongshan County Micro Hydro Project Bundle No.4", "Zhongshan County Micro Hydro Project Bundle No.5" and "Zhongshan County Micro Hydro Project Bundle No.6"  
Date: March 2, 2012 4:44:51 PM GMT+08:00  
To: master@ccchina.gov.cn, 卓 黄, info@cdmgoldstandard.org, info@reep.org, dmcintosh@uk.mercycorps.org, donorservices@mercycorps.org, denise@cdmgoldstandard.org, Leon Wang, Annyta Luo, helio@helio-international.org, wwfcchina@wwfcchina.org, gxslm2006@163.com, info@pcd.org.hk  
Cc: Dafei Huang



Dear Madam/Sir:

Swiss Carbon Value Ltd. and our collaborated 18 project owners (whose names can be found in the PDD of the GS registry links) are holding a Stakeholder Feedback Round regarding our six projects (whose names can be found in the PDD of the GS registry links). These projects information are made public on the Gold Standard's official website:

<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1098>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1100>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1101>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1102>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1103>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1104>

Should you have any comments and enquires regarding to projects e.g. their impacts on the local ecological environment, and their contribution towards sustainability of local community, please do not hesitate to contact us via phone: 0086 (0) 10 8454 9953 or email: x.huang@southpolecarbon in the period between 2nd March 2012 and 2nd May 2012. Your participation is highly appreciated.

各相国际, 国内NOGs, 当地政府相关部门, 所选当地居民:  
瑞士碳值有限公司与本公司合作的18位项目业主正在展开关于利益相关方的反馈环节的活动, 我公司现诚挚邀请贵机构参与我们项目的利益相关方反馈环节活动, 并对项目本身, 项目的对当地环境的影响, 以及对当地可持续发展的贡献提出宝贵的意见和建议。

项目的信息 (包括项目名称, 项目业主名称) 请见以下连接:  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1098>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1100>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1101>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1102>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1103>  
<https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=1104>

您可以通过邮件和电话的方式与我们沟通。我们的联系方式为电话: 0086 (0) 10 8454 9953, 邮件: x.huang@southpolecarbon, 意见和建议的收取的截止时间为2012年5月2日。我们期待您的参与!

Best  
Xiaoxi Huang 黄小溪

Project Manager, China

South Pole Carbon Asset Management  
Best Project Developer (Environmental Finance Voluntary Carbon Markets Survey 2011)

Until 2nd of May 2010, we received no comment from any invited NGOs or governmental officials. For stakeholders of the local communities, questionnaires were distributed after announcement via the poster. Local stakeholders filled in and returned the questionnaires via the assistance of the local water resource bureau. To date, no objection has been received from the local stakeholders. Therefore, we conclude that no objection by our stakeholder invitation is raised.

## Questionnaires

At the local level, the stakeholder consultation feedback round was conducted in a format of questionnaire. The questions in the questionnaire are designed based on the Annex H of the Gold Standard Rules and Toolkit. The questions are designed to cover both indicators of the "Do no harm assessment" and the "Sustainable Matrix". A two weeks period was open for local stakeholders to participate in the consultation, i.e. from 9 April to 23 April 2012. As the consultation was open to all



members of the local public/stakeholders, there wasn't a restraint on the number of questionnaires available. A questionnaire would be provided to a stakeholder who would like to make a response or share his/her comment on the projects within the consultation period. In terms of response, in total 80 respondents submitted their filled-in questionnaires, among which 60 were filled-in in front of Zhongshan Water Resource Bureau office building (pictures of the location where poster was posted were attached below), and 20 respondents were from the area of Gongtan Hydropower Station. The questions are designed in a way to help stakeholder understand potential impacts on environment, social development and technological & economic development of the project with simple local language.

Below are shown the pictures of local people participating the stakeholder consultation:





The questions that have been designed based on the Gold Standard Annex I “Guidance on Sustainability Assessment” and the Gold Standard Annex H “Do No Harm” Assessment in the questionnaires are as follow:

#### Questions representing the “Do No Harm Assessment”

1. According to your understanding, does the project respect the international proclaimed human rights; Does it respect the local culture and the uniqueness of local human inhabitants?
2. Do you think if the project causes any involuntary resettlement?
3. Do you think if the project causes negative impacts on local cultural heritage?
4. Do you think the employer respects their employee’ freedom of association?
5. Is there any forced labour involved in the project?
6. Is there any child labour working for this project?
7. Do you think the project involves any discriminations based on gender, race, religion, sexual orientation or any other basis?
8. Do you think the project provides a safe and health environment for their employee?
9. Do you think the project produce toxin material?
10. Do you think the project has complied the relevant anti corruption law and regulation in China?
11. Do you think if the project has taken the precautionary approach, and always considered human safety as a priority for their decision-making?

#### Questions representing “Sustainable Matrix”

1. Is the project helping to improve the local air quality?

2. Does the project have any negative impacts local river system?
3. Does the project have any negative impacts on the local soil?
4. Does the project have any negative impacts on the ecosystem?
5. Does the project improve the local employment?
6. Does the project improve the income of the local people?
7. Does the project contribute to improving the livelihood of the poor?
8. Does the project introduce investment to the local area or have positive impact on balance of payments?
9. Does the project help to build human and institutional capacity?
10. Has any advanced technology been introduced to the local area by the project?
11. Does the project provide access to affordable and clean energy service?
12. Are you aware if the project has introduced any other pollutant? If so, please list details.

One questionnaire sample and a full list of participants are attached below:

黄金标准钟山县微型水电项目包利益相关方问卷调查

请您简单填写个人信息

性别: ☒ 女

年龄: 56

职业/身份: 村民

请问您是否了解、听说过以下其中一个或者几个微型水电站?  
是 ☒ 否 ☐

钟山县两安乡白石脚二级水电站	钟山县两安乡白石脚一级水电站
钟山县花山白面田水电站	钟山县红花里北曹水电站
钟山县大和水力发电站	钟山县花山乡周家脑水电站
钟山县望高福田电站	钟山县红花镇银瓶水电站
钟山县望高镇川岩槽河电站	钟山县澳华一级水电站
钟山县两安竹梅二级水电站	钟山县清塘车田坪水电站
钟山县两安乡樟碓源水电站	钟山县六月六发电站
钟山县大坪二级水电站	钟山县两安乡坪江电站
钟山县花山丹竹冲水电站	

关于黄金标准项目的无害测评 (Do no harm assessment) 相关调查问题

提示: 请您在以下答案内勾选您认为符合的选项, 在没有勾选的情况下, 答案默认为否。

1. 根据您的了解, 该项目是否尊重国际上颁布的人权法, 是否尊重人权, 尊重当地文化, 尊重土著民族的独特性?  
是 ☒ 否 ☐ 不了解 ☐

2. 根据您的了解, 该项目是否产生强制移民?  
是 ☐ 否 ☒ 不了解 ☐

3. 根据您的了解, 该项目是否涉及破坏, 改变或移除任何文化遗迹?  
是 ☐ 否 ☒ 不了解 ☐

4. 根据您的了解, 该项目所雇佣的员工是否有自由联合的权利?  
是 ☒ 否 ☐ 不了解 ☐



5. 根据您的了解，该项目是否被迫使用劳工？  
是 ( ) 否 (✓) 不了解 ( )
6. 该项目是否雇佣年龄在18岁以下的儿童劳工？  
是 ( ) 否 (✓) 不了解 ( )
7. 该项目的在选择员工方面是否公平，有无性别歧视？  
是 (✓) 否 ( ) 不了解 ( )
8. 该项目是否给员工提供了一个安全，健康的工作环境？  
是 (✓) 否 ( ) 不了解 ( )
9. 该项目是否制造有害的废物？  
是 ( ) 否 (✓) 不了解 ( )
10. 该项目是否遵循中国人民共和国反腐败的相关法律法规？  
是 (✓) 否 ( ) 不了解 ( )
11. 该项目是否遵循环境预警原则，以保护环境和人身安全为出发点？  
是 (✓) 否 ( ) 不了解 ( )

**关于黄金标准的可持续发展的调查问卷 (Sustainable Matrix)**

1. 该项目是否有利于改善空气质量？  
是 (✓) 否 ( ) 不了解 ( )
2. 该项目对项目取水河流是否造成负面的影响？  
是 ( ) 否 (✓) 不了解 ( )
3. 该项目对项目所在地点的土壤是否造成影响？  
是 ( ) 否 (✓) 不了解 ( )
4. 该项目对项目生态系统是否造成影响？  
是 ( ) 否 (✓) 不了解 ( )
5. 该项目是否改善当地就业环境？  
是 (✓) 否 ( ) 不了解 ( )
6. 该项目是否增加了当地就业者的收入？  
是 ( ) 否 ( ) 不了解 ( )
7. 该项目是否对当地环境造成了任何负面影响？如有，请列出。  
是 ( ) 否 ( ) 不了解 ( )
8. 该项目是否能促进当地的招商引资或引进外资投资？  
是 (✓) 否 ( ) 不了解 ( )
9. 该项目是否对当地的劳动人口素质的提高和能力建设造成正面的影响？  
是 (✓) 否 ( ) 不了解 ( )
10. 该项目引进了国内外先进技术？  
是 ( ) 否 (✓) 不了解 ( )
11. 该项目是否为当地提供清洁能源的供应做贡献？  
是 (✓) 否 ( ) 不了解 ( )
12. 该项目是否对当地环境增加了任何污染物排放？如有，请列出。  
是 ( ) 否 ( ) 不了解 (✓)

### 钟山县微型水电项目包问卷调查人员清单

1. 姚丽华	男	48岁	国家公务员
2. 杨启现	男	57岁	国家公务员
3. 王德强	男	62岁	政协退休干部
4. 覃永保	男	61岁	水电退休干部
5. 潘祖有	男	59岁	财政干部
6. 卢景福	男	38岁	水电干部
7. 周春兴	男	38岁	司法干部
8. 杨礼斌	男	56岁	律师
9. 廖天文	男	55岁	私营业主
10. 唐佑贵	男	56岁	私营业主
11. 谭耀佳	男	48岁	个体户
12. 覃秀英	女	54岁	城镇居民
13. 李海荣	男	60岁	退休工人
14. 龙素新	女	60岁	退休工人
15. 廖斌	男	40岁	村委干部
16. 钟大有	男	45岁	村委干部
17. 石春增	男	55岁	村民
18. 邓文德	男	43岁	村民
19. 钟大庭	男	52岁	村民
20. 邓安莲	女	45岁	村民

### 钟山县微型水电项目问卷调查人员清单

1. 原新	男	38岁	村干部
2. 原星月	女	27岁	美容师
3. 黄广明	男	52岁	村民
4. 梁文	男	56岁	种地
5. 莫小惠	女	28岁	理发
6. 韦伯	男	30岁	个体户
7. 黄梅	女	34岁	买菜
8. 黄石	男	50岁	村民
9. 黄川	男	47岁	果农
10. 卢德	女	39岁	公务员
11. 王始	女	42岁	种地
12. 黄菲	女	32岁	打工
13. 谭玲	女	27岁	卖凉茶
14. 廖全	男	48岁	种地
15. 邓超	男	38岁	司机
16. 姚晓晓	女	18岁	学生
17. 卢洁	女	46岁	果农
18. 李改	女	49岁	农民
19. 钟敏	女	45岁	医生
20. 钟敏	女	49岁	农民

### 钟山县微型水电项目问卷调查人员清单

1. 刺文龙	男	36	打工
2. 黄煌洲	男	50	农民
3. 段月萍	女	49	种地
4. 钟丽燕	女	33	种地
5. 李瑾凌	女	50	农民
6. 谭海生	女	63	退休
7. 廖梅	男	31	修车
8. 杨彩虹	女	28	老师
9. 邓基武	男	53	养殖户
10. 唐益全	男	42	个体户
11. 卢勇义	男	52	农民
12. 姚晓梅	女	30	公务员
13. 姚如菊	女	30	农民
14. 王守明	男	45	农民
15. 邓香萍	女	38	打工
16. 王太士	男	17	学生
17. 姚明山	男	53	农民
18. 杨小丹	女	47	农民
19. 李豪	男	39	打工
20. 谭元	男	66	养殖

### 钟山县微型水电项目问卷调查人员清单

1. 姚丽华	男	48岁	国家公务员
2. 杨启现	男	57岁	国家公务员
3. 王德强	男	62岁	政协退休干部
4. 覃永保	男	61岁	水电退休干部
5. 潘祖有	男	59岁	财政干部
6. 卢永福	男	38岁	水电干部
7. 周春兴	男	38岁	司法干部
8. 杨礼斌	男	52岁	律师
9. 廖大文	男	55岁	私营业主
10. 唐培贵	男	56岁	私营业主
11. 谭耀佳	男	48岁	个体户
12. 覃秀英	女	54岁	城镇退休
13. 李海荣	男	60岁	退休工人
14. 龙素珍	女	60岁	退休工人
15. 廖斌	男	50岁	村委干部
16. 钟大有	男	45岁	村委干部
17. 石春增	男	45岁	村民
18. 邓文德	男	43岁	村民
19. 钟大政	男	55岁	村民
20. 邓安建	女	45岁	村民

### 钟山县微型水电项目问卷调查人员清单

1. 原炳生	男	39岁	养殖
2. 曾佳静	女	35岁	农民
3. 柳良平	男	19岁	法发廊
4. 郭鹏	女	49岁	农民
5. 黄兰兰	女	33岁	果农
6. 梁小米	女	19岁	学生
7. 覃月全	男	42岁	教师
8. 卢峰	男	47岁	教师
9. 韦大中	男	45岁	打工
10. 梁晴虹	女	28岁	个体
11. 黄山	男	32岁	群众
12. 黄珊珊	女	57岁	打工
13. 卢俊石	男	29岁	群众
14. 钟凌源	女	51岁	家庭妇女
15. 钟大刚	男	41岁	农民
16. 黄叶	男	49岁	群众
17. 郭惠	女	35岁	农民
18. 李俊	女	33岁	农民
19. 韦荣	男	27岁	运输

The result of the questionnaire shows the project does not incur any harmful impacts on the local environment. Respondents show that they believe the project can bring sustainable benefits to them and they are very supportive for the operation of the project. The respondents generally deemed that the proposed project generates reliable electricity, benefit local economy development and employment. They also think the proposed project has no negative impact on ecology.

We can conclude that questionnaires result show that our stakeholders have believed project does not produce harmful impacts defined in the GS passport, and the project contributes to the long term sustainable gain for their community.

### E. 3. Discussion on continuous input / grievance mechanism

#### [See Annex W]

Discuss the Continuous input / grievance mechanism expression method and details, as discussed with local stakeholders.

	Method Chosen (include all known details e.g. location of book, phone, number, identity of mediator)	Justification
Continuous Input / Grievance Expression Process Book	Grievance expression book in power plants	Anyone can leave comments or grievance on the expression book
Telephone access	+86 13810118463	Phone of project manager
Internet/email access	bjhuangzhuo@sina.com	
Nominated Independent Mediator (optional)	N/A	

*All issues identified during the crediting period through any of the Methods shall have a mitigation measure in place. The identified issue should be discussed in the revised Passport and the corresponding mitigation measure should be added to sustainability monitoring plan in section G.*

### SECTION F. Outcome Sustainability assessment

#### F.1. 'Do no harm' Assessment

##### [See Toolkit 2.4.1 and Annex H]

Safeguarding principles	Description of relevance to my project	Assessment of my project risks breaching it (low/medium/high)	Mitigation measure
1. The project respects internationally proclaimed human rights including dignity, cultural property and	The <i>Constitution of the People's Republic of China</i> regulates that the nation respect and protect	Low	N/A

uniqueness of indigenous people. The project is not complicit in Human Rights abuses.	human rights including dignity, cultural property and uniqueness of indigenous people.		
2. The project does not involve and is not complicit in involuntary resettlement	The project is a run-off river hydro project without reservoirs, and it is located in isolated area where there is no human inhabitant, therefore no involuntary resettlement is incurred.	Low	N/A
3.The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage.	The project is located in remote area where no cultural heritage exists, thus this principle is not applicable to the project.	Low	N/A
4.The project respects the employees' freedom of association and their right to collective bargaining and is not complicit in restrictions of these freedoms and rights	The Labour Law of the People's Republic of China and Law of the People's Republic of China on Labour Contract respects the right of freedom of association and collective bargaining to employees. The project fully respects the employees' rights in accordance with all labour related laws endorsed within P.R. China. Thus, the project employees' freedom of association are protected by the above-mentioned Chinese Labour Law.	Low	N/A
5.The project does not involve and is not complicit in any form of forced or compulsory labour.	The labour law of People's Republic of China and Law of the People's Republic of China on Employment Contract forbids any form of forced or compulsory labour. All employment contracts are in line with	Low	N/A



	Chinese laws or regulations.		
6.The project does not employ and is not complicit in any form of child labour	No child labour is employed in the project. The labour law of People's Republic of China protects children. Moreover, there are Chinese provisions on protecting minor.	Low	N/A
7.The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.	The labour law of People's Republic of China and the Law of People Republic of China on Employment Contract forbid any form of discrimination based on gender, race, religion, sexual orientation or any other basis.  The project abides the rules of equality accordingly and does not involve and complicit in any form of discrimination.	Low	N/A
8. The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe or unhealthy work environments	The project has mature safe guidance for all the workers during the operation. All the employees are trained before working. The project has the necessary instruments to guarantee the safe of the employee according to China's labor laws.	Low	N/A
9.The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle. This principle can be defined as: "When an activity raises threats of harm to human health or the environment, precautionary measures should be	The project uses run-of-river water to generate electricity. There is no harm to human health and environment. It is operated in an environmental friendly way.	Low	N/A

taken even if some cause and effect relationships are not fully established scientifically.”			
10.The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats, including those that are (a) legally protected, (b) officially proposed for protection, (c) identified by authoritative sources for their high conservation value or (d) recognised as protected by traditional local communities	The project is located in an isolated area and is not in the proximity to any critical natural heritage on the World Heritage list or even on domestic heritage list. Thus, the project does not involve and is not complicit in significant conversion or degradation of critical natural habitats.	Low	N/A
11.The project does not involve and is not complicit in corruption.	No corruption existed in the project. It is confirmed that China ratified the united nations convention against corruption <sup>1</sup>	Low	N/A
<b>Additional relevant critical issues for my project type</b>	<b>Description of relevance to my project</b>	<b>Assessment of relevance to my project (low/medium/high)</b>	<b>Mitigation measure</b>
1			
2			
Etc.			

## F.2. Sustainable Development matrix

[See Toolkit 2.4.2 and Annex I]

Insert table as in section D3 from your Stakeholder Consultation report (Sustainable Development matrix).

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Gold Standard indicators of sustainable development.	If relevant copy mitigation measure from "do no harm" – table, or include mitigation measure used to neutralise a score of ‘-’	Check <a href="http://www.undp.or/mdg">www.undp.or/mdg</a> and <a href="http://www.mdgmonitor.org">www.mdgmonitor.org</a>  Describe how your indicator is related to local MDG goals	Defined by project developer	Negative impact: score ‘-’ in case negative impact is not fully mitigated score 0 in case impact is planned to be fully mitigated

<sup>5</sup> <http://www.unodc.org/unodc/en/treaties/CAC/index.html>



				No change in impact: score 0 Positive impact: score '+'
Air quality	N/A	GOAL 7. Ensure environmental sustainability	<p>In the construction period, dust may occurs due to the excavation process, however the emission can be mitigated using appropriate measures.</p> <p>In the baseline scenario, the CSPG grid is fossil fuel dominated power plants. These plants generate electricity and produce air pollutants such as NO<sub>x</sub> and SO<sub>x</sub> at the same time. This project supplies electricity with clean energy to replace fossil fuel electricity and hence facilitate the air quality improvement. However, as air quality improvement of the local area would be a long-term process.</p> <p>Additionally, as a micro hydropower plant, monitoring of the local air quality would be out of the PP's capacity. Located in a remote rural area, official data is not available. Thus, due to lack of quantified data this sustainable indicator is scored as "0"</p> <p><b>Parameter:</b> air quality compliance with rules and regulations</p>	0
Water quality and quantity	N/A	GOAL7 Ensure Environmental	During the project construction period,	0

		Sustainability	washing wastewater could have been produced. It is treated to meet the regulation requirements. During the project operation period, domestic wastewater and sanitary wastewater is generated, but is treated in the centralised treatment facility of the county. Therefore, there is no impact on water quality. This indicator therefore scores 0.	
Soil condition	N/A	GOAL7 Ensure Environmental Sustainability	The project effect on soil condition is excavation in construction period. The project is built in a piece of wasteland, and soil waste is being stored and recycled properly, thus the impact on the soil is minimal. No pollution to soil is produced during the operation period.	0
Other pollutants	N/A	GOAL7 Ensure Environmental Sustainability	The other pollutant in construction period is noise . Noise mainly comes from the construction machines, concrete casting and transportation vehicle. Given the project site is far away from the village and mitigation measures implemented during construction work. This indicator scores “0” The are no other pollutants in operation period.	0
Biodiversity	N/A	GOAL7 Ensure Environmental	No negative impacts on biodiversity	0

		Sustainability		
Quality of employment		GOAL1 Eradicate Extreme Poverty and Hunger	<p>The project provides long-term jobs. The project owner also abides the Chinese labour law. Trainings are provided to the relevant staffs, which can upgrade their skills and knowledge. Through signing of employment contract, which follows the Chinese labour law, the employer should provide a comfortable working environment and ensure welfare and safety. Therefore, this indicator is scored “+”.</p> <p><b>Parameter: staff training and safety manual implementation</b></p>	+
Livelihood of the poor		GOAL 1: Eradicate Extreme Poverty and Hunger GOAL 3: Promote Gender Equality and Empower Women	<p>The project contributes the livelihood as a result of infrastructure improvement.</p> <p>The local investors also invested in the project. Local village receives their share of annual profit return. As such financial information is difficult to collect from local shareholders. Monitoring of such parameter is infeasible. Therefore this indicator is scored “0”</p>	0
Access to affordable and clean energy services		GOAL 7 Ensure Environmental sustainability	<p>The project increases the renewable energy use in China.</p> <p>According to GS’s comment the impact is minimal from</p>	0

			a project of this scale, this parameter is scored as neutral. <b>Parameter: Net electricity generation by the project</b>	
Human and institutional capacity		GOAL 1: Eradicate Extreme Poverty and Hunger	The project enables employment of local female, as there is no gender barrier for employment of the project. However due to micro scale of the project, number of employment is not significant. There is no significant impact on this indicator resulting from the project development. Thus this indicator scores "0"	0
Quantitative employment and income generation		GOAL 1: Eradicate Extreme Poverty and Hunger	The construction workers are locally hired. As a result, the employment rate and income level have increased. The employment contract ensures the salary of the employee is reasonable. So this indicator scores "+" <b>Parameter: Number of employment</b>	+
Balance of payments and investment		GOAL 1: Eradicate Extreme Poverty and Hunger GOAL 8: Develop a Global Partnership for Development	The power generated by the Project activity displaces electricity supplied by the grid. Given the fact that coal resources are abundant in China, the renewable energy generation by the Project will not have a substantial impact on the balance of payments. Hence, compared with the baseline scenario there is no significant difference in terms of the balance of	0

			payments.  Thus this indicator scores "0"	
Technology transfer and technological self-reliance		GOAL 1: Eradicate Extreme Poverty and Hunger  GOAL 8: Develop a Global Partnership for Development	No Changes in technology transfer since the project is using domestically produced equipment. According to the PDR and contracts, it is clearly shown that generators and hydro turbines are made in China, thus the project is technological self-reliance. Thus this indicator scores "0"	0
<b>Justification choices, data source and provision of references</b>				
Air quality	In the EIA form, it states that mitigation measures are applied to control the expected dust emission, such as wet damping and sprinkler. EIA form of Zhongshan Dahe Hydropower Project EIA form of Liang'an Zhumei Stage II Hydropower Project EIA form of Honghuali Beicao Hydropower Project			
Water quality and quantity	In the EIA form, it states that all the wastewater in project activities is treated before discharging to the river. EIA form of Zhongshan Dahe Hydropower Project EIA form of Liang'an Zhumei Stage II Hydropower Project EIA form of Honghuali Beicao Hydropower Project			
Soil condition	In the EIA form, it states that project does not significantly impacts on the soil condition. Mitigation measures are applied to project short term soil degradation: rehabilitation of vegetation in the affected places is conducted right after the completion of the construction work. EIA form of Zhongshan Dahe Hydropower Project EIA form of Liang'an Zhumei Stage II Hydropower Project EIA form of Honghuali Beicao Hydropower Project			
Other pollutants	There is not any disturbing noise at residential areas because of the project location is far from local village. EIA form of Zhongshan Dahe Hydropower Project EIA form of Liang'an Zhumei Stage II Hydropower Project EIA form of Honghuali Beicao Hydropower Project			
Biodiversity	The ecosystem surround the project area is not endangered, the impacts deriving from the project activity is not significant on the biodiversity. EIA form of Zhongshan Dahe Hydropower Project EIA form of Liang'an Zhumei Stage II Hydropower Project EIA form of Honghuali Beicao Hydropower Project			
Quality of	The quality of the employment is measured by: training programme			

employment	and the level of the profession of the employee. i.e. whether or not the person who is charge for operation of the system has a certain expertise or certificates.
Livelihood of the poor	Roads and other basic infrastructure have been introduced to the local community. However these impacts are indirect impacts that are difficult to measure. FSR form of Zhongshan Dahe Hydropower Project FSR form of Liang'an Zhumei Stage II Hydropower Project FSR form of Honghuali Beicao Hydropower Project
Access to affordable and clean energy services	The project may diversify the grid to toward more green level. However, given the amount of electricity produced by the project, it still plays small part in the local grid. FSR form of Zhongshan Dahe Hydropower Project FSR form of Liang'an Zhumei Stage II Hydropower Project FSR form of Honghuali Beicao Hydropower Project
Human and institutional capacity	There are no significant impacts deriving from the proposed project development in any of the parameters
Quantitative employment and income generation	The project provides job opportunities to the local people and as a result increase income generation in the region. FSR states the number of employee for Zhongshan Dahe Hydropower Project is 20 FSR states the number of employee for Liang'an Zhumei Stage II Hydropower Project is 16 FSR form of Honghuali Beicao Hydropower Project is 6
Balance of payments and investment	Not applicable
Technology transfer and technological self-reliance	Not applicable

## SECTION G. Sustainability Monitoring Plan

[See Toolkit 2.4.3 and Annex I]

No	1
Indicator	Quality of employment
Mitigation measure	Work safety manual; training
<i>Repeat for each parameter</i>	
Chosen parameter	Work safety manual; training
Current situation of parameter	
Estimation of baseline situation of parameter	N/A
Future target for parameter	Work safety manual will be implemented at project sites Compliance with regulations eg. Production Safety Law of China
Way of monitoring	How The manager of each station will ensure the work safety manual is displayed at the project site and followed by staff.  The project owner would ensure the project complies with relevant safety operation regulations.
	When Annually



	By who	The project owner
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No		2
Indicator		Access to affordable and clean energy services
Mitigation measure		N/A
<i>Repeat for each parameter</i>		
Chosen parameter		Net electricity generation by project activity
Current situation of parameter		N/A
Estimation of baseline situation of parameter		6285MWh
Future target for parameter		The future target for parameter is the annual net electricity generation by the project
Way of monitoring	How	Project owner will monitor the net electricity generation according to the electricity generation meter
	When	Continuous
	By who	Verified by DOE

No		3
Indicator		Quantitative employment and income generation
Mitigation measure		N/A
<i>Repeat for each parameter</i>		
Chosen parameter		Number of employment
Current situation of parameter		There are not enough employment opportunities for local people.
Estimation of baseline situation of parameter		There are not enough employment opportunities for local people.
Future target for parameter		Provide jobs and training opportunities for local residents.
Way of monitoring	How	checking materials of employment and wage pay
	When	Annually
	By who	The project owner

#### Additional remarks monitoring

N/A



## SECTION H. Additionality and conservativeness

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This section is only applicable if the section on additionality and/or your choice of baseline does not follow Gold Standard guidance

### H.1. Additionality

**[See Toolkit 2.3]**

This section has been assessed and validated in the first crediting period. This project is the second crediting period. According to the '*Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period (Version 3.0.1)*', the baseline scenario is the same as the scenario before the project construction.

### H.2. Conservativeness

**[See Toolkit 2.2]**

A conservative approach has been followed in calculating the baseline emission factors and baseline emission. The detail can be seen in PDD.

## ANNEX 1 ODA declaration

**[See Toolkit Annex D]**

Project financing for this project activity does not use Official Development Assistance (ODA) Funds as defined in the Gold Standard Manual for Project Developers. There are no loans or grants being provided by International Finance Institutions, which include ODA.