

Guidelines for Supply, Installation and Commissioning of Solar Photovoltaic Water Pumping System and installation of Shallow Tube Well on turnkey basis under RIDF

A.	Introduction
	<p>This Guideline is based on guideline approved by Department of Agriculture, Govt. of Assam, vide no. AGA.01/2017/311 Dated 3rd Nov, 2018 and minutes vide No. AGA.241/2018/20 dated 06th July, 2019. This Guideline supersedes earlier guideline for Installation of Shallow Tube Well (STW) with Solar PV powered Pump-set under RIDF, 2016-17 and to be effective from the date of circulation. The Directorate of Agriculture will finalise the district wise target for Supply, installation and commissioning of SPV system and installation of STW to create assured irrigation potential.</p>
B.	Abbreviation/Definition
	<p>STW: Shallow Tube Well; SPV System: Solar Photovoltaic Water Pumping System; WST: Water Storage Tank of 10,000 litre capacity (RCC/Brick masonry); RIDF: Rural Infrastructure Development Fund under National Bank for Agriculture and Rural Development; Project: Supply, installation and commissioning of SPV system and installation of STW on turnkey basis; Beneficiary: Group of farmers or individual farmer applying / selected for availing subsidy against the project; Subsidy: Admissible Govt. Subsidy against project component; Department: Department of Agriculture, Govt. of Assam; Directorate: Directorate of Agriculture, Govt. of Assam, Khanapara, Guwahati-22; Director: Director of Agriculture, Govt. of Assam; Chief Engineer: Chief Engineer, Agriculture, Directorate of Agriculture, Govt. of Assam, Khanapara, Guwahati-22; DLSC: District Level Selection Committee; DBT: Direct Benefit Transfer of subsidy amount; District Engineer: Executive Engineer or Asstt. Executive Engineer of Agriculture Department, Govt of Assam, who is in-charge of the respective District; DAO: District Agriculture Officer; ADO: Agriculture Development Officer of Agriculture Department, Govt of Assam; JE: Junior Engineer of Agriculture Department, Govt of Assam; AEA: Agriculture Extension Assistant of Agriculture Department, Govt of Assam; NGO: District NGO entrusted for the district against the project. Vendor/Supplier: Manufacturer/System Integrator empanelled by Director for Supply, installation and commissioning of SPV system and installation of STW on turnkey basis.</p>
C.	Eligibility criteria
	<p>i) Group of farmers or individual farmer having around 2.00ha (15 bighas) of contiguous cultivable agricultural land for creation of assured irrigation potential, shall be eligible for admissible subsidy. Willing farmers may submit application in prescribed format (Annexure-I) through District NGO or directly to the office of the District Engineer.</p> <p>ii) In case of Group of farmers, an agreement to be executed between members as per format enclosed at Annexure-I(A) for equitable distribution of water and the admissible subsidy shall be in the name of leader of the Group. This agreement required to be submitted along with application.</p> <p>iii) Farmers from Char areas and Forest Villages who may not be having land holding document issued by revenue authority, the ADO or AEA would identify the farmers applied for STW and Secretary Gram Panchayat (GP) concerned would provide land possession certificate.</p>

D.	Admissible Subsidy																
	Table -1:: Subsidy Pattern																
	<table border="1"> <thead> <tr> <th>SN</th> <th>Particulars of item</th> <th>Admissible subsidy</th> <th>Farmer's share</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Supplying, installation and commissioning of SPV water pumping system</td> <td>85%</td> <td>15%</td> </tr> <tr> <td>2.</td> <td>Installation of STW (Civil work)</td> <td>75%</td> <td>25%</td> </tr> <tr> <td>3.</td> <td><u>Optional item</u> Construction of 10000 litre capacity Water Storage Tank (RCC/Brick Masonry)</td> <td>85%</td> <td>15%</td> </tr> </tbody> </table>	SN	Particulars of item	Admissible subsidy	Farmer's share	1.	Supplying, installation and commissioning of SPV water pumping system	85%	15%	2.	Installation of STW (Civil work)	75%	25%	3.	<u>Optional item</u> Construction of 10000 litre capacity Water Storage Tank (RCC/Brick Masonry)	85%	15%
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3.	<u>Optional item</u> Construction of 10000 litre capacity Water Storage Tank (RCC/Brick Masonry)	85%	15%														
E.	Application process :-																
	<p>i) The District NGO/ Extension machinery of Agriculture Department shall collect application forms along with supporting documents from willing farmers and after verification by ADO or JE concern, shall submit to the District Engineer for placing before DLSC. The application form shall be made available in the office of the EE/DAO/AEE/SDAO and in the web site www.diragri.assam.gov.in.</p> <p>ii) Online application by using portal: Farmers may apply for STW by visiting http://assamagriculture.in. Interested farmers may register their names in the portal for which a unique ID number will be generated against their name. Farmers may apply for STW as per provision available under the scheme using his ID number. Farmer may apply on his own using smart phone or may request the District Engineer or Dist. NGO or approach CSC- Arunodoi Kendra to complete the application process.</p>																
F.	Selection of Beneficiaries :-																
	<p>District Level Selection Committee (DLSC) shall be constituted as per Govt. Notification number AGA364/2013 Pt/240 dtd. 20.08.2018 (enclosed at Annexure-VIII (A)) and for Kokrajhar /Chirang /Baksa /Udalguri (BTC) Districts shall be constituted as per Govt. Notification No. BTC/Agri-78/2015/170 dtd-30.08.2018 (enclosed at Annexure-VIII(B)).</p> <p>(i) The District Engineer will prepare list of beneficiaries on first come first serve basis and place the same before the DLSC. The DLSC will select list of eligible beneficiaries on the basis of eligibility criteria.</p> <p>(ii) The District Engineer, on receipt of approval of beneficiaries list from DLSC, shall issue a provisional sanction letter (format at Annexure-II) in favour of the selected beneficiary. On the strength of provisional Sanction Letter, selected beneficiary would deposit Farmer's share for SPV Pumping System and for installation of STW as per their choice of Vendor/Make/Model of SPV System from the empanelled list. Farmer's share shall be deposited in the form of bank draft, drawn in favour of respective supplier, to the District Engineer. District Engineer shall maintain a register to record details of farmers' share received and disbursed.</p> <p>(iii) On deposition of Farmer's share and after obtaining an undertaking from the beneficiary (format at Annexure-IV) the District Engineer will issue Final Sanction Order (format at Annexure III).</p>																
G.	Role of District NGO:-																
	<p>To facilitate community/ beneficiary participation and smooth implementation, one NGO is engaged in each District for following activities in compliance with TOR approved by Govt.-</p> <ol style="list-style-type: none"> i) NGOs will work in close coordination with respective District Engineer. The District Engineer will monitor the activities of the NGOs under their respective districts and time to time report to the Directorate accordingly. ii) Disseminate project information amongst the local farmers. iii) Organize district/block/village level awareness/training/orientation on various issues of the project like technical, environmental and social issues. iv) Mobilize farmers and collect applications for STW and submit to the respective District Engineer. v) Educate farmers for optimum and efficient use of irrigation water. vi) To ensure proper project documentation and maintenance of STW by farmers. vii) To record GPS readings of installed STW under the project. viii) To collect and deliver water samples from STW for chemical testing to the designated testing laboratory. Testing parameters and cost of individual test may be seen Table- 3. ix) Any other related activities pertaining to implementation of the project assigned by the district Engineer. x) The NGO will submit claim (as per claim format at Statement- C/D) through District Engineer for payment of remuneration against their performed activities. 																

Table -2:: Remuneration schedule for District NGO

SN	Particulars.	Unit.	Rate.
1.	Collection of application, awareness camp, motivation etc.	Each STW	Rs.165.00
2.	Recording of GPS Reading	Each STW	Rs.30.00
3.	i) Collection of Water Sample as per testing laboratory norms including cost of bottles.	Each STW	Rs.18.75
	ii) Delivery of water sample to laboratories for testing (arsenic, fluoride etc complete as per directions)	Each STW	Rs. 36.25
4.	Necessary Arrangement for installation of STW	Each STW	Rs. 250.00
Total for each STW installed in the project			Rs. 500.00

Table -3::Rate Schedule for Water sample test

SN	Particulars	Cost/Sample (in Rs)	Remarks
1.	Testing for Arsenic	324.00	Applicable to all STW
2.	Testing for Fluoride	300.00	As per requirement
3.	Testing for Iron	240.00	As per requirement
4.	Testing for Hydrocarbon	240.00	As per requirement

H. Supply, Installation and Commissioning of SPV Water Pumping System and Installation of STW on turn-key basis

- i) Chief Engineer on behalf of the Director Agriculture will empanel manufacturers/ system integrators for Supply, Installation and Commissioning of SPV Water Pumping System and Installation of STW on turn-key basis.
- ii) The District Engineers will issue Final Sanction Order indicating the Vendor/Make/ Model of SPV Pumping System, details of beneficiary and location for supply, installation and commissioning of SPV Pumping System and installation of STW with intimation to the vendor/supplier to execute the project.
- iii) During layout of site for STW, the field engineer should maintain a distance not exceeding 6m between the bore hole and SPV panel to minimize power loss and for efficient discharge. The SPV panel should be installed in a shadow free area.
- iv) 'Scope of work' as per RFP vide No. Agri/Engg/4958/RFP/Solar Pump-set/ 2021-22/01 dtd. 20 /08/2021, through which vendor/ supplier are empanelled, is enclosed at **Annexure-VII**. Empanelled vendor/ supplier shall comply the 'Scope of work' for execution of the project.
- vi) Boring works for installation of STW shall be executed by empanelled vendor/ supplier as per approved plan and estimate (enclosed in **Annexure –IX (A) and IX (F)**).
- vii) Civil works for installation/ grouting of SPV pole/ mounting structure/ electrical work etc. shall be executed by empanelled vendor/ supplier as per model Plan and estimate of foundation for the steel structure of solar panel is enclosed at **Annexure – IX (B)**. It should have proper foundation as the steel structure of solar panel has to withstand wind of up to 150 km/hr velocities.
- viii) 1st & Final Bill will be prepared by the District Engineer and will record the measurement in MB along with litho-log against installation of each STW. The Bill and MB along with all relevant documents will be retained by the District Engineer for future verification and audit etc.
- x) For releasing of Govt. share (subsidy) to the Supplier against supply and commissioning of the SPV pumping system, the Supplier shall produce the following documents to the respective District Engineers for preparation of bill, MB and **statement- B(ii)**:
- Tax Invoice in triplicate along with delivery challan for installation of STW materials of SPV Pumping system.
 - Physical Verification Report (**Annexure-V**) jointly signed by Supplier, respective District Engineer and the beneficiary.
 - Coloured photograph(s) of SPV array, pump, controller/ inverter along with STW duly certified by the respective District Engineer.
 - Handing over certificate of SPV pumping system to the beneficiary jointly signed by the beneficiary and Supplier and countersigned by the respective District Engineer.
 - Performance report based on data received from remote monitoring system or data logger, in cases where internet services are not available.
 - Certificate for civil work for installation of mounting structure of SPV etc. certified by the District Engineers.
 - District Engineer will retain the original documents viz. bill, MB, Tax invoice etc. in his office for future verification, audit etc.

I.	Optional Item: Construction of Water Storage Tank (WST) of 10000 litre capacity (RCC/Brick)
	(i) The construction of water storage tank of 10000 litre capacity (RCC/Brick) may be done by the beneficiaries from their own resources under the supervision of technical staff of respective District Engineer. Materials required for construction of storage tank shall be procured by the beneficiary themselves from the open market as per specification laid down in the approved Plan and Estimate attached at Annexure- IX (C) and IX (D) .
	(ii) Bill will be raised by the district engineer after completion of work as per actual measurement recoded in MB for civil work for submission of claim to the Directorate. The subsidy will be disbursed to the beneficiary's account directly observing the laid down procedure of DBT, prescribed by the Govt. The Bill and MB along with all relevant documents will be retained by the District Engineer for future verification and audit etc.
J.	Disbursement of Subsidy:-
	On completion of installation of STW, commissioning of Solar PV Pump-sets and construction of water storage tank, the District Engineer will submit claims as per prescribed format at Statement -B (i) for water storage tank/ Statement -B(ii) for STW and SPV pump-set for release of admissible subsidy through RTGS in favour of the: (a) Supplier for supply, installation and commissioning of Solar PV Pump-set and for installation of STW (b) Beneficiary (s) who have constructed water storage tank.
K.	Data Uploading in RIDF portal: (www.ridfportal.in)
	All information pertaining to beneficiaries, installation of STW, Commissioning of SPV pump-sets and construction of WST, if any, shall be uploaded on the RIDF portal prior to submission of claim for release of subsidy.
L.	Utilization of STW :-
	For optimum utilization of Irrigation potential created, the ADO, AEA would prepare crop plan for each STW and Irrigation plan for each crop. Water utilization and crop production report shall be prepared by the DAO.
M.	Duration of Service :-
	The duration of service for Solar Photovoltaic Water Pumping System is 20 years and STW is 10 years from the date of commissioning.
N.	Monitoring & Evaluation :-
	<p>i) Monitoring of the scheme would be done periodically by the Departmental officers as well as Third party may be engaged by the Department.</p> <p>ii) Within 15 days of release of subsidy, uploading of beneficiaries' data and Geo-tagging of every STW in Departmental website and 'Bhuvan' Platform shall be carried out. District NGO shall assist in this regard. Beneficiaries' data in Excel file & hard copies shall be made available for the same purpose by the District Engineer.</p> <p>iii) Water samples testing of each STW shall be done in the designated testing laboratory or Laboratory of Public Health Engineering Department of the district. District NGO engaged by District Engineer shall collect water sample from the STW and would deliver to the designated laboratory for testing.</p> <p>iv) The District Engineer shall properly maintain a Record Keeping Register for STW and SPV Pumping system to record Vendor/Make/ Model/ Sl. No. of Solar Pump set, Solar Controller and Solar PV Array, and beneficiary details as per format at Annexure-IV.</p> <p>v) The operation & maintenance of the SPV system and STW shall be done by the beneficiary. The beneficiary shall clean the PV panels on weekly basis so that the performance of the solar panels remains optimum. The cost of maintenance of the Pump-sets is to be borne by the beneficiary.</p> <p>vi) During the life time (duration of service of the SPV system), beneficiary shall not sell or transfer the SPV system to any other party. Appropriate legal action would be initiated against the defaulter.</p> <p>vii) Beneficiary shall be responsible for any damage, loss and theft of the SPV system.</p> <p>viii) Officials of Agriculture Department, district Administration or any other Agency / Officials, as authorized, shall inspect the SPV system and STW at any time to ensure its utilization. Log Book and the Cultivation Register duly maintained by the beneficiary shall be open for verification by the Officials.</p> <p>ix) In case of any dispute related to the project, the Director of Agriculture shall resolve the issue amicably.</p>

O.	Annexure:	
1	Annexure-I :	Application Form for Supply, Installation and Commissioning of SPV Water Pumping System and Installation of STW on turn-key basis
2	Annexure-I(A) :	Format for Deed of Agreement for Farmers' Group
3	Annexure-II :	Format for Provisional Sanction Letter for Supply, installation and commissioning of SPV system and installation of STW on turnkey basis
4	Annexure-III :	Format for Final Sanction Order for Supply, installation and commissioning of SPV system and installation of STW on turnkey basis
5	Annexure-IV:	Format for Undertaking by beneficiary for STW and SPV Water Pumping System under RIDF
6	Annexure-V :	Format for Physical Verification & GPS reading for Installation of STW and SPV Water Pumping System under RIDF
7	Annexure-VI :	Format for Record Keeping Register for STW and SPV Pumping System
8	Annexure-VII :	Scope of Work For Supply, Installation and Commissioning of SPV Water Pumping System and Installation of STW
9	Annexure-VIII(A) :	District Level Selection Committee (DLSC)
10	Annexure-VIII(B) :	District Level Selection Committee for Kokrajhar /Chirang /Baksa /Udalguri Districts under BTC
11	Annexure-IX(A) :	Model Estimate for Installation of Shallow Tube Well up to 45 meter depth
12	Annexure-IX(F) :	Estimate for Installation of Shallow Tube Well up to 75 M depth using Rotary Rig
13	Statement -B (i)	Subsidy claim format against installation of STW and SPV Water Pumping System
14	Statement -B(ii)	Subsidy claim format against construction of Water Storage Tank (RCC/Brick Mansion)

-Sd/-

Nodal Officer, RIDF

-Sd/-

Director of Agriculture,
Assam, Khanapara, Guwahati-22

Annexure – I

Application Form for Supply, Installation and Commissioning of SPV Water Pumping System and Installation of STW on turn-key basis

(To be filled by official)

Serial No:

Date of submission:

Sign of receiving official:

To

The EE (A) / AEE (A),, District

One copy of recent
passport size self-
attested photo of
applicant must be
pasted here

I, Shri/Smt....., (Name of applicant i.e. individual farmer or group leader), furnished the following information for allotment of one No. of following type of STW.

1. Type of STW applied for (✓ mark where applicable):

Type of STW	✓ mark
1. STW with SPV Water Pumping System consisting of Surface Pump (up to 45 M depth)	
2. STW with SPV Water Pumping System consisting of Submersible Pump (up to 75 M depth)	

2. Address of applicant (individual farmer or group leader):

Village:	Block:
PO:	PS:
LAC:	GP:
Mobile No:	Email ID:

3. Bank Account details of applicant (individual farmer or group leader):

Bank Account No.:	IFSC Code:
Bank Branch:	Name of Bank:

4. Detail of Land (of individual farmer or all farmers of the group applied for the STW):

SN	Name of farmer(s)	*SC/ST/Women	Father's/Husband Name	Voter ID No.	Cultivable area for proposed STW (bigha)	Present cropping pattern	Proposed cropping pattern
1	2	3	4	5	6	7	8
(i)							
(ii)							
...							
				Total			

6. Kishan Credit Card details:

KCC No. & date	Bank	Branch

7. Self attested copies of following documents are to be submitted along with the application:

SN	Documents to be submitted	Yes/No
1.	Copy of Voter ID (EPIC)/ Aadhar	
2.	Copy of Land holding certificate or Title deed or Jamabandi or Land Possessing certificate from GaonBurha or Moujadar as proof of ownership of cultivable area for proposed STW in the name of applicant farmer(s). (For land shown in Column-6 of Point-4)	
3.	Copy of caste Certificate for SC/ST farmers from appropriate authority.	
4.	Copy of KCC (if any)	
5.	One copy of recent passport size photo of applicant.	

All the information and statements furnished in/with this application by me/us are true and I/we accept that any misinterpretation contained in it may lead to my/ our disqualification. I/ We understand that decision of according approval or rejection of my/ our application shall be binding on me/ us.

Place:

Date:

Signature of the Applicant

(Individual farmer or group leader)

This is to certify that the applicant individual farmer / group of farmers, is/are identified and information and statements furnished in/with this application are verified as true. The proposal is forwarded to the EE (A) / AEE (A).....throughNGO for consideration.

(Seal & Sign of Dist NGO),

(Seal & Sign of AEA),

(Seal & Signature of ADO or JE)

Date:

Place:

Annexure –I (A)

Format for Deed of Agreement for Farmers’ Group

(To be executed by Farmers’ Group to cover a command area of 2.00ha)

We, the undersigned, members of the farmer Group under leadership of Shri.....
of Vill:..... P.O..... District.....applied for Supply,
Installation and Commissioning of SPV Water Pumping System and Installation of STW at the land of our
leader. We have contiguous agricultural cultivable land ofBigha to cover a command area of 2
ha as per following schedule. This agreement is hereby executed between us for equitable share of water
among us for irrigation purpose extracted from the STW applied for installation.

Sl. No	Name & Address of member	Land holding (Bigha)	Schedule of land (Dag &Patta No.)	Signature

We hereby agreed to share the irrigation water proportionately among us
for cultivation from the STW applied for.

Signature of Leader

Signature of members

Witness

(Name and Address)

.....

Countersignature By-

District NGO

AAE/Junior Engineer

Annexure-II
GOVT. OF ASSAM

OFFICE OF THE EXECUTIVE ENGINEER (AGRI.)/ASSISSTANT EXECUTIVE ENGINEER(AGRI.)

.....
(Format for Provisional Sanction Letter for Supply, installation and commissioning of SPV Pumping System and installation of STW on turnkey basis)

From: The EE(Agri)/ AEE(Agri)

To, Shri _____ (Name & address of selected beneficiary)

Sub: Provisional Sanction Letter for Supply, installation and commissioning of SPV Pumping System and installation of STW on turnkey basis.

Ref: Minutes of DLSC, dtd.....

Sir,

In pursuance of Minutes of District Level Selection Committee of _____ District held on _____ issued vide Memo. No _____ Dtd. _____, provisional sanction letter is hereby issued to you for allotment of one no. of STW with SPV Pumping System under RIDF for the year..... as detailed below:

1.	Name: (Farmer/Group Leader)	
2.	Father/ husband's name:	
3.	Vill:	
4.	PO:	
5.	Block:	
6.	Type of STW:	
7.	Eligible subsidy:	
	Components (✓where applicable)	Approved unit cost (Rs.)
		Admissible subsidy in %
		Maximum admissible subsidy (Rs.)
	a) Installation of STW including boring materials for admissible depth of meter.	
	b) SPV Water Pumping System consisting of _____ (Surface Pump/ Submersible Pump)	
	c) Construction of water storage tank of capacity 10,000 litre (optional item).	

The individual farmer/ group leader is requested to deposit beneficiary's share for Supply, installation and commissioning of SPV Pumping System and installation of STW, as per their choice of Vendor/Make/Model for SPV Pumping System from the empanelled list (enclosed), within 09 days from the date of issue of this provisional sanction letter; failing which provisional sanction issued will automatically lapse. Beneficiary's share shall be deposited in the form of bank draft, drawn in favour of respective Vendor/Supplier.

EE (Agri)/ AEE (Agri)

Memo No.....Dated.....

Copy forwarded for favour of information to:-

1. The Deputy Commissioner.....
2. The Director of Agriculture, Assam, Khanapara, Guwahati-22.
3. The Chief Engineer, Agriculture, Assam, Khanapara, Guwahati-22.
4. The Member, DLSC
5. Sri.....AAE/Sri.....JE to EE (A)/AEE(A) for information and necessary action..

EE (Agri)/ AEE (Agri)

GOVT. OF ASSAM

OFFICE OF THE EXECUTIVE ENGINEER (AGRI.)/ASSISSTANT EXECUTIVE ENGINEER(AGRI.)

Annexure-III

Format for Final Sanction Order for Supply, installation and commissioning of SPV Pumping System and installation of STW on turnkey basis

In pursuance of Minutes of District Level Selection Committee of _____ District held on _____ issued vide Memo. No. _____ Dtd. _____, and provisional sanction letter issued vide No.dtd., final sanction is hereby accorded for allotment of one no. of STW with Solar PV Pumping System to the following individual farmer or group leader under RIDF for the year..... as detailed below:

1.	Name:	
2.	Father/ husband's name:	
3.	Vill:	
4.	PO:	
5.	Block:	
6.	Type of STW:	
7.	Eligible subsidy:	
	Components (√where applicable)	Approved unit cost (Rs.)
		Admissible subsidy in %
		Maximum admissible subsidy (Rs.)
	a) Installation of STW including boring materials for admissible depth of meter as per approved plan and estimate.	
	b) SPV Water Pumping System consisting of Surface Pump/ Submersible Pump of Make..... and Model..... including RCC base foundation as per approved plan and estimate.	
	c) Construction of water storage tank of capacity 10,000 litre (optional item) as per approved plan and estimate.	
8.	Completion time for installation of STW (civil works)	10 days from the date of issue of this sanction order
9.	Completion time for supply, installation and commissioning of SPV Water Pumping System on turnkey basis	15 days from the date of issue of this sanction order
10.	Completion time for construction of water storage tank to be construct by beneficiary (optional item)	15 days from the date of issue of this sanction order

EE (Agri)/ AEE (Agri)

Memo No.....Dated.....

Copy forwarded for favour of information to:-

1. The Deputy Commissioner.....
2. The Director of Agriculture, Assam, Khanapara, Guwahati-22.
3. The Chief Engineer, Agriculture, Assam, Khanapara, Guwahati-22.
4. Sri.....AAE/Sri.....JE to EE (A)/AEE(A) for information and necessary action. They are requested to supervise the work and prepare Bill, MB record, required documents, maintain record keeping register etc.
5. The beneficiary Sri.....Farmer for information and necessary action.
6. M/s.empanelled Vendor/Supplier, Addresshe is directed for Supply, installation and commissioning of SPV Pumping System and installation of STW on turnkey basis within stipulated time in consultation with the farmer and guidance of respective AAE/ JE to the EE(A)/ AEE(A).

EE (Agri)/ AEE (Agri)

Pass-port size
photograph of
individual
farmer or group
of farmers

Annexure-IV

Format for Undertaking by beneficiary for STW and SPV Water Pumping System under RIDF

(To be signed in non-Judicial Stamp Paper of Rs.10/- ; also strike out where not applicable)

I, Sri/Smt.....(name of individual farmer or group leader)
s/d/w/o..... Village:....., PO:, PS:, District:
..... hereby solemnly giving the following undertakings on/...../2021, for availing subsidy for
installation of one Shallow Tube Well with SPV water Pumping System under RIDF, which will be binding on me and
any violation of these, will penalize me for legal action and or action as decided by the Department of Agriculture,
Assam.

1. This Undertaking is made for the purpose to develop Irrigation facility for increasing production and productivity.
2. I/We understood 75% cost of installation of STW and 85% cost of Solar PV pumping system will be borne by the Agriculture Department subject to the limit of maximum admissible subsidy and balance shall be borne by me/us from self resources. In case of optional item of construction of water storage tank, 85% cost will be borne by the Agriculture Department, and rest of the total cost shall be borne by me/us from self resources.
3. I/We enclose herewith an undertaking for optimum utilisation of STW water for irrigation in proportionate share with the participating undersigned group members.
4. I/we will abide by the **“Guideline for Supply, installation and commissioning of SPV Pumping System and installation of STW on turnkey basis under RIDF”**.
5. As soon as I/we receive Sanction Order from EE(A), I/we shall proceed for construction of storage tank as per plan and estimate by self as per approved specification under supervision of technical officers of Agriculture Department and complete within **15 days** from the date of issue of the sanction order.
6. I/we understood that insurance of the SPV system is mandatory and I will abide by this.
7. I/we shall bear the cost of operation and maintenance of the STW and SPV system.
8. I/we shall properly & efficiently utilise irrigation water available from the STW and allow nearby farmers to derive the benefit or all the members of the group can derive the benefit.
9. I/we will not sell or transfer the SPV pumping system to any other party during the service period.
10. I/we understand that Officials of the Agriculture Department, or any other agency authorized by the Agriculture Department, shall have the right to inspect the STW and SPV pumping system at any time to ensure its utilization and take action for illegal utilization or loss.
11. I/we shall be responsible for any damage, loss and theft of the STW and SPV pumping system.
12. I/we shall maintain proper log book and utilization register as prescribed by the Agriculture Department for inspection of the same at any time.
13. I/we understand that any dispute between me / us and the Agriculture Department will be resolved amicably by the Directorate of Agriculture, Khanapara, Guwahati-781022.
14. I/we fully understand that any violation of clauses enumerated above will penalize me/us for legal action and or action as decided by the Department of Agriculture, Assam and put my/ our signature below in my/our good state of mind(s) in presence of following witnesses.

Date:

Place:

Witness:

Signatures of Farmer / members of the Group

1.

2.

(Write full address & contact nos.)

Annexure-V

Format for Physical Verification & GPS reading for Installation of STW and SPV Water Pumping System under RIDF

Issue No

Dated

This is to certify that one No. STW with SPV Pump-set installed as per approved plan and estimate under RIDF is physically verified jointly by us on dated..... and observations are recorded below-

1.	Name of beneficiary(individual farmer or group leader):	
2.	Father/ husband's name:	
3.	Vill& PO:	
4.	District:	
5.	(a) Date of Handing over of STW and SPV pump-set by supplier	
	b) Date of taken over of STW with SPV pump-set by the beneficiary farmer	
6.	Date of commissioning:	
7.	Measured Depth of STW (in meter):	
8.	Discharge recorded (Litre/Sec):	
9.	<u>Type of Pump-set (received by he beneficiary)</u>	
	a) SPV Pumping system:	
	b) Centrifugal (Surface)/ Submersible:	
	c) Power (HP):	
10. 11.	a) Make & Model of Solar Pump-set, Solar Controller and Solar PV Array	
	b) Sl. No. of Solar Pump-set, Solar Controller and Solar PV Array	
	c) Name & address of vendor of SPV Pumping system:	
12.	<u>GPS of STW and SPV pump-set Recorded</u>	
	a) Latitude (dd ⁰ mm'ss.s" N):	
	b) Longitude (dd ⁰ mm'ss.s" E):	
13.	Water Sample Collected & Submitted to laboratory	
14.	Water storage tank capacity and size (LxBxH)	

Sign of Beneficiary farmer	Seal & Sign of Rep. of supplier of SPVP/system or his authorized representative	Seal & sign of NGO	Seal & sign of AAE/JE	C/S by EE(A)/AEE(A)
	Name:	Name:	Name:	

Annexure-VI

Format for Record Keeping Register for STW and SPV Pumping System

SN	Name of individual farmer or group leader	Address (Vill. & PO)	Type of STW with Pump-set	Depth of boring	GPS		Water Sample		Make & Model of Diesel/Electrical Pump-set	Engine No./ Pump No. of Diesel/Electrical Pump-set
					Lat.	Long.	Collected Or Not	Result		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

Make, Model & Sl. No. of			Cost of STW with Pump-set				Subsidy claimed for			
Solar Pump	Solar controller	PV Array	Installation of STW & boring materials (Rs)	Diesel/ Electrical Pump-set/ SPV pumping system (Rs)	Const. of water storage tank (optional) (Rs)	Total cost (Rs)	Installation of STW & boring materials (Rs)	Diesel/ Electrical Pump-set/ SPV pumping system (Rs)	Const. of water storage tank (optional) (Rs)	Total subsidy (Rs)
(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)

Annexure-VII

SCOPE OF WORK FOR SUPPLY, INSTALLATION AND COMMISSIONING OF SPV WATER PUMPING SYSTEM AND INSTALLATION OF STW

1.	Supply, installation and commissioning of SPV water pumping System : The empanelled Respondent shall generate demand for their proposed SPV water pumping system among prospective farmers in various districts of the State of Assam and as per interest of beneficiary farmers, they will select the system from empanelled manufacturers/ system integrators. Respondent shall supply, install and commission of SPV water pumping system and install STW at various locations in different districts of Assam without any preference for any specific site/district or without any prejudice to any beneficiary.
1.1	The Respondent will have full responsibility for packaging, forwarding, transportation, supply and any type of breakages/ losses etc. thereto. The goods/ systems will be delivered at the destination, installed and commissioned at site in the perfect conditions.
1.2	Respondent shall install SPV water pumping system with 2 HP DC surface or submersible solar pump (PV Array capacity of 1800Wp) as the case may be, after installation of STW successfully. Manufacturers will have to put a Name plate/ Label and Mark Bar code &/ Serial No./ Code No. etc. of their products as per NABL/ MNRE/ BIS/ BEE or other applicable specification(s).
1.3	The Respondent shall be responsible for survey (selection of proper bore well/ tube well having sufficient yield in the premises of beneficiary), supply, installation & commissioning of various capacities/ heads of SPV water pumping systems with all required accessories and fittings i.e. SPV panels should be mounted on a suitable structure with a provision of three times manual tracking, surface/ submersible motor pump set with a suitable inverter/ controller with a provision of remote monitoring of pump, electronics (MPPT, Inverter, Electronics Protections), interconnected cables, on-off switch, GI/ HDPE riser pipe/ suction pipe & all required accessories, fittings related to civil works along with 5 years warranty & Comprehensive Maintenance Contract (CMC) etc. in different villages/ sites located all over the state of Assam. The same make of solar panels, pumps and inverter/ controller, for which the test report is submitted in the RFP, should be supplied by the Respondent.
1.4	Civil works for installation/ grouting of SPV pole/ mounting structure/ electrical work etc. shall be scope of Respondent. It should have proper foundation as the steel structure of solar panel has to withstand wind of up to 150 km/hr velocities. A model Plan and estimate of foundation for the steel structure of solar panel is attached at Annexure –6 which is exclusive of benchmark cost.
1.5	All metal casing or shielding of the pumping system shall be thoroughly grounded to ensure safety of the SPV water pumping system.
1.6	An Operation and Maintenance Manual, in both Assamese and English language, should be provided with the SPV water pumping System. The manual should have information about solar energy photovoltaic modules, motor pump set, tracking system, mounting structures, Electronics & Switches etc. it should have also clear instructions about mounting of PV module, DO's and DONT's and on regular maintenance and trouble shooting of the pumping system. Name and address of the person or centre to be contacted in case of failure or complaint should also be provided. A warranty card for the modules and the motor pump set should also be provided to the beneficiary. Further, a certificate shall have to be provided by the Respondent, from any license holder contractor/ supervisor, certifying that all electrical works are carried out in accordance with applicable electrical safety standards prescribed by APDCL/ Govt. Of Assam from time to time.
1.7	The Respondent shall be required to submit performance report to the purchaser after commissioning on half-yearly basis till completion of Comprehensive Maintenance Contract (CMC) period. The Respondent will submit the consolidated annual performance report to the purchaser, which will contain an abstract of half-yearly reports submitted already.
1.8	The supplied materials should be strictly as per TS by MNRE, otherwise it will be liable for rejection. In case of any defective material or any type of substandard material is supplied, the material will be rejected and it will be the responsibility of the Respondent for taking back the rejected materials at his own cost within (15) fifteen days from the date of communication of rejection. Purchaser/ beneficiary shall not be responsible for security/ safety of the material rejected. Any type of fittings, accessories, assemblies, essentially required components as per NABL/ MNRE/ BIS/ BEE Standards & Practices as applicable, but not described or mentioned in bidding document shall have to be supplied by the Respondent at his own cost.

1.9	Defective materials will not be accepted under any conditions and shall be rejected outright without any compensation. The Respondent shall be liable for any loss/ damage sustained by purchaser due to defective work. The Respondent shall replace the defective material at his own expenses to the satisfaction of purchaser/ beneficiary. The Respondent shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of the materials.
1.10	There should be provision of remote monitoring on all systems through Remote Monitoring System. Such system shall be with the latest software/ hardware configuration and data connectivity for online/ real time monitoring, subject to availability of service network. In areas where internet services are not available, the data shall be made available through data logger. These systems should be supplied and maintained by the Respondent under CMC for 5 years.
1.11	The Respondent shall not assign, sublet or transfer the contract or any part thereof to any party without the prior express consent of the purchaser.
1.12	In the event of any of the breach of the conditions of the contract at any time on the part of the Respondent, the contract may be terminated by the purchaser without any compensation to the Respondent. All payments due shall be forfeited.
2.	Five years Warranty and Comprehensive Maintenance Contract (CMC):
2.1	It is mandatory on the part of Respondent for providing post installation CMC services for maintaining and monitoring the commissioned SPV water pumping systems up to the period of 5 years from the date of commissioning. The date of CMC will begin from the date of commissioning of the SPV water pumping system.
2.2	For carrying out the maintenance service during the warranty & CMC effectively, the Respondent shall establish at least one local service centre at each district where number of SPV water pumping systems commissioned by Respondent are equal or more than one hundred. The Respondent will maintain the records of maintenance/ certificate of half-yearly visits. As the maintenance facility is to be provided in the warranty of CMC, hence no additional payment will be made for maintaining the above inventory at the service centre.
2.3	It shall be the responsibility of the Respondent to ensure 100% working status during the five year warranty and CMC period. The Respondent will have to arrange all required instruments, tools, spares, trained manpower and other necessary facilities at service centre and shall repair/ replace all defective components such as SPV module, Inverter, controller, pump, mounting structures, electronics, wiring etc.; at his own cost against warranty.
2.4	During 5 year warranty and CMC service shall have two distinct components as described below: a) Preventive / Routine Maintenance: This shall be done by the Respondent at least once in every six months and shall include activities such as cleaning and checking the health of SPV water pumping system, tightening of all electrical connections, adjusting nut & bolts, screws, members etc. of mounting structure, and any other activity that may be required for proper functioning of the SPV water pumping system as a whole. b) Breakdown/ Corrective Maintenance: Whenever a complaint is lodged by the user/ purchaser, the Respondent or his representative shall attend to resolve the same in not exceeding (7) seven days from the date of intimation and the rectification/ replacement work done shall be certified by the District engineer/ beneficiary, failing of which the Breakdown/ Corrective Maintenance shall be done by the purchaser at the risk and cost of the Respondent and all such expenses shall be recovered from him.
2.5	Insurance: Insurance of the SPV water pumping system is under the scope of CMC covering the warranty period. The Respondent is responsible for insurance coverage of the SPV water pumping system for following events: a) Loss & theft b) Damages due to lightening, hailstorm or other natural calamities
2.6	After the commissioning of the SPV water pumping system, the following instance might lead to shortening of the CMC period. Accordingly it may lead to recovery of exigency charges @4% of the work order value of that pump, for each year of reduction from intended CMC period of 5 years. a) Water level recedes below pump shutoff level b) Theft of component(s) c) Panel breakage/ damage d) Bore well collapse e) Controller damage

3	Timeline: Respondent shall have to commission the SPV water pumping system within the time period allowed, on the basis of quantity and location of works, in the respective work order.
3.1	In case of non-commission of SPV water pumping system within the allowed time period due to unavoidable circumstances or event of Force Majeure, purchaser may grant time extension subject to justified reasons submitted by the Respondent to his satisfaction.
3.2	The time period specified in the work order shall be deemed to be the essence of the contract and the Respondent shall arrange all the needful within the stipulated period.
4	Installation of STW (Boring works)
4.1	As per requirement of site and aquifer condition, two separate provisions for STW are available. Viz.– (i) STW up to a depth of 45 meter by manual boring commissioned with surface pump and (ii) STW up to a depth of 75 meter by machine boring commissioned with submersible pump.
4.2	Site of construction of bore-well would be in the farm land of the beneficiary farmer
4.3	Construction of bore-well is exclusively for irrigation purpose
4.4	Construction of bore-well up to 45m depth of boring in case of surface/ centrifugal pump and up to 75m depth of boring in case of submersible pump
4.5	Skilled artisan would be engaged for construction of bore-well
4.6	Boring works should to be executed as per plan and estimate approved by the Agriculture Department as attached in Annexure -7 and 8 . Bill will be raised as per actual measurement recoded in MB for civil work of STW.
4.7	Explore the water bearing strata to achieve maximum yield from the bore-well.
4.8	Survey of site and any bore-well in the nearby field to assess the minimum boring required to achieve the desired yield.
4.9	Successful installation of STW to achieve adequate discharge after coupled with 2 hp surface/ submersible solar pump.
4.10	Obtain satisfactory certificate indicating discharge (litre/sec), litho log of bore-well jointly signed by the beneficiary and Junior Engineer concerned.
4.11	Area affected by arsenic and Fluoride shall not be considered for construction of bore-well
4.12	Bore-well having inadequate discharge shall be considered as failure boring.
4.13	No. reimbursement shall be made against failure boring
4.14	The respondent must complete his job within the stipulated time frame.

Annexure VIII (A)

District Level Selection Committee (DLSC),

Sl. No.	Designation	Position
1.	Deputy Commissioner/ Principal Secretary of Autonomous Council in 6 th Scheduled Areas	Chairperson
2.	District Development Commissioner	Member
3.	CEO of Autonomous Council within the District, if any (e.g. RHAC,MAC, TAC etc.)	Do
4.	Head of KVK	Do
5.	SDO(C) of outlying Subdivision	Do
6.	CEO, ZilaParishad	Do
7.	Joint Director, Agriculture (Zonal)	Do
8.	FAO of DC's office	Do
9.	DAO/ Executive Engineer, Agriculture	Member Secretary

The DAO or the EE will function as the member secretary depending on jurisdiction of subject matter of the meeting

The list of the selected beneficiaries along with minutes of DLSC will be displayed in the Notice Board of the office of the EE(A)/ AEE(A) and DAO of the district and shall be uploaded in the website www.agri-horti.assam.gov.in.

Annexure- VIII(B)

District Level Selection Committee for Kokrajhar /Chirang /Baksa /Udalguri Districts under BTC.

Sl. No.	DISTRICT LEVEL SELECTION COMMITTEE FOR KOKRAJHAR, CHIRANG, BAKSA, UDALGURI	
1.	Principal Secretary, BTC, Kokrajhar	Chairman
2.	District Agriculture Officer	Member
3.	AGM/Manager from APDCL	Special Invitee
4.	District Development Manager, NABARD	Member
5.	Lead Bank Manager of the District	Member
6.	EE(Agri)/AEE(Agri) of the respective District (District Engineer)	Member Secretary
7.	Representative from District NGO	Member
8.	Two Farmer's (One male & one Female) nominated by the District Agricultural Officer.	Member
9.	One Progressive Farmer to be nominated by the MLA of each Constituency of the District.	Member

The list of the selected beneficiaries along with minutes of DLSC will be displayed in the Notice Board of the office of the EE(A)/AEE(A) and DAO of the district and shall be uploaded in the website www.agri-horti.assam.gov.in.

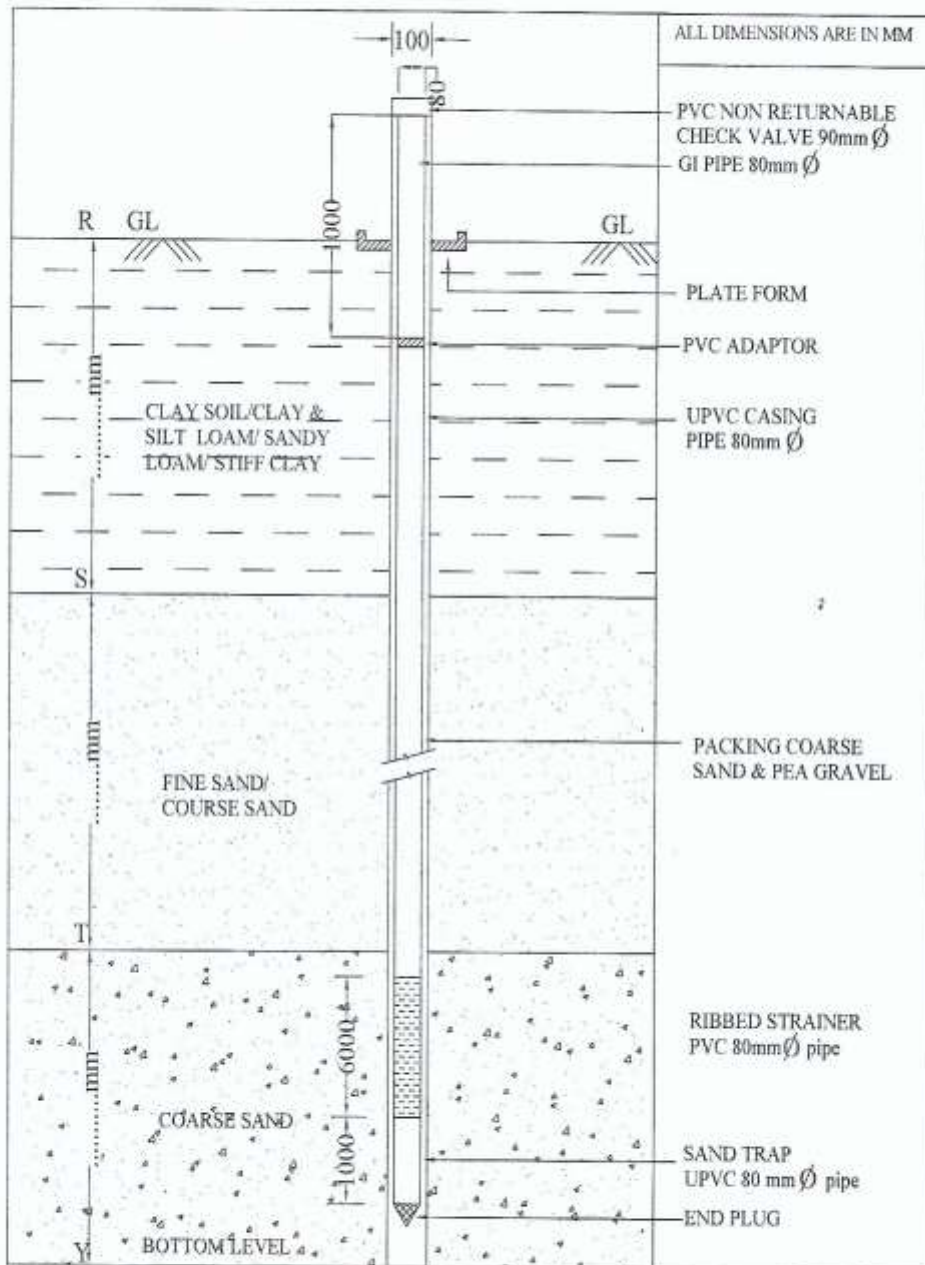
Annexure –IX (A)

MODEL ESTIMATE FOR INSTALLATION OF SHALLOW TUBE WELL (STW) UP TO 45 METER DEPTH						
Rate based on Schedule of rate of PHE for 2015-16 & APWD(B) for 2013-14						
SN	SOR No	Description of item	Unit	Quantity	Rate	Amount
A. Material cost						
1	5.1 (h)	Medium duty Galvanized Iron (GI) pipe 80 mm dia having ISI Mark	Meter	1.5	611.1	916.65
2	5.3 (6)	UPVC Casing pipe withstanding 6kgf/cm ² 80 mmdia	Meter	38.5	310.2	11942.70
3	5.2 (c)	PVC ribbed screen stainer 80 mm dia having ISI mark,	Meter	6	471.2	2827.20
4		PVC non returnable check valve 90mm dia having ISI mark.	Nos.	1	300	300.00
5	6.1.7 (h)	PVC End plug, 90 mm dia best quality having ISI Mark.	Nos.	2	54.2	108.00
6	6.1.1(h)	PVC socket 90 mm dia pressure 6kgf/cm ²	Nos.	5	42	210.00
7	6.1.2 (h)	PVC adaptor	Nos.	1	78	78.00
9		PVC suction pipe dia 75mm with working pressure 6kgf/cm ²	Meter	1	150	150.00
10	6.8.1 (a)	Solvent cement (250 ml)	No.	1	152	152.00
SUB TOTAL(A)=						16,684.55
B. Labour cost for Installation of STW						
1	7.1.3	Labour charge of making bore hole of 100 mm dia and collecting sample of soil at every 3.00 Meter depth.				
		a. For 0 to 20 m depth	Meter	20	193.6	3872.00
		b. For 20 m to 40 m depth	Meter	20	301.6	6032.00
		c. For 40 m to 60 m depth	Meter	5	372.4	1862.00
2	7.1.12	Labour charge of sinking lowering, fitting fixing of Direct Action (Tara hand pump assembly in position with 90 mm/50 mm dia P.V.C casing pipe with ribbed screen placed in potable water bearing strata with 40 mm dia sand trap with end cap at bottom of well, washing the bore well etc. and supplying necessary jointing materials including carriage of materials and cleaning and priming the tube well all complete as directed.	Meter	45	25.9	1165.50
3	7.1.16	Providing and packing coarse sand around stainer and casing pipe including supplying and carriage of materials all complete as directed and specified.	Meter	45	9.5	427.50
4	7.1.21	Labour charges for providing Bentonite clay including the cost of Bentonite clay around 150/200 mm dia tube well up to depth of 6 m from top.	Meter	2	544.5	1089.00
SUB TOTAL(B)=						14,448.00
C. Cement Concrete Floor base (1.50m X 1.50m)						
		Construction of floor base Flat Brick soiling, P.C.C and R.C.C , Plastering works as directed. (enclosed estimate)	Sq.m			3874.00
Sub TOTAL-(C)						3874.00
TOTAL (A + B+C)=						35,006.55
Deduct 5% Vat						1,750.33
						33,256.22
Add 12% GST						3990.75
						37,246.97
Say Rs.						37247

SPECIMEN COPY

LITHOLOG OF STW (Max. Depth upto 45m for Diesel/Electrical/SPV Pumpset)

Name & Add of Farmer :- i) Name.....
 ii) Father /Husband Name.....
 iii) Vill..... iv) P.O.....
 v) Dist..... vi) EE(A)/AEE(A).....
 Date of Installation..... Latitude..... Longitude.....



Name & Signature of Farmer/Beneficiary

Name & Signature of Supervising officer (Jr. Engr)

Countersigned by

Name & Signature of Contractor (if engaged)

EE(A)/AEE(A)

Annexure-IX (F)

**Estimate for installation of Shallow Tube Well (STW) up to 75 M depth using Rotary Rig.
Rate based on SOR, PHE for 2015-16 & APWD (B) for 2013-14**

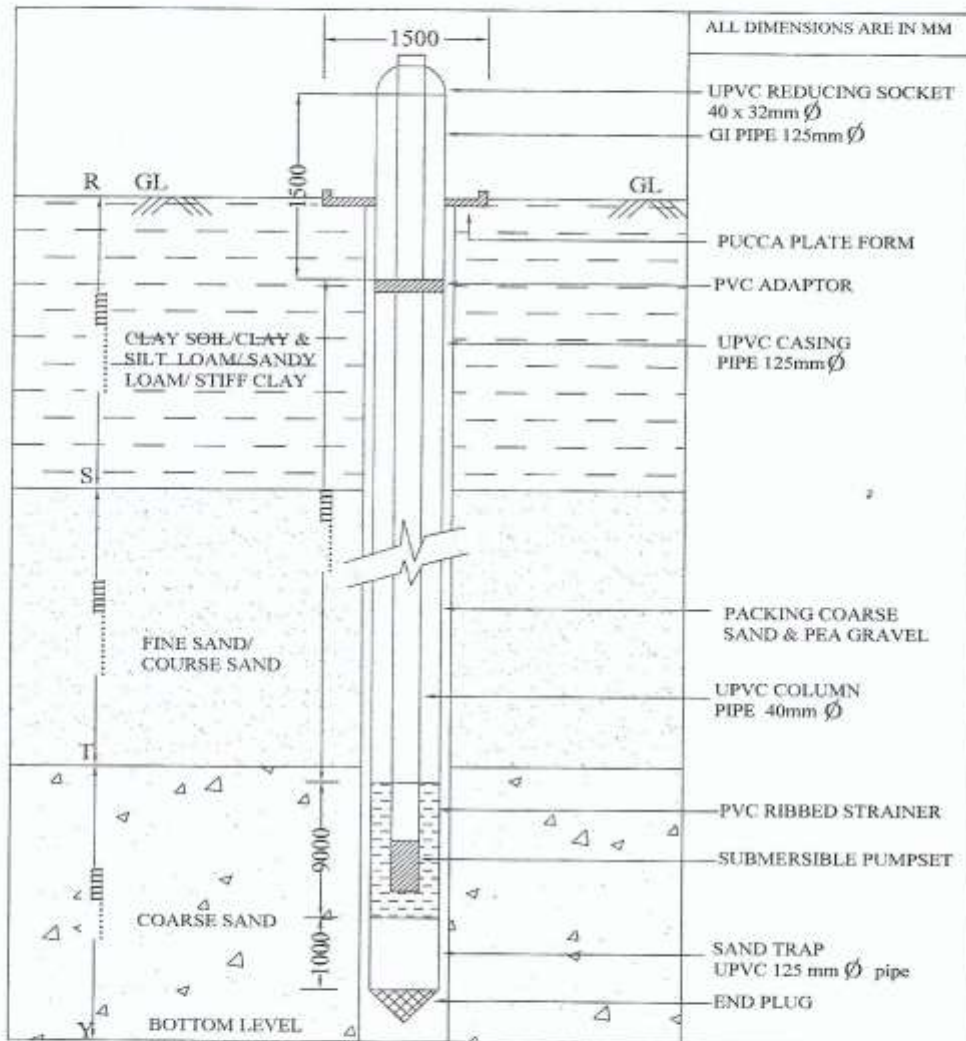
SN	SOR No.	Item Details	Unit	Qty	Rate (Rs)	Amount (Rs)
A. Material Cost						
1	5.1 (h)	Medium duty galvd. Iron (GI) Pipe 125 mm dia having ISI Mark	Metre	1.50	1162.70	1744.05
2	5.3 (6)	UPVC Casing pipe withstanding 6 kgf/cm ² 125 mm dia	Metre	65.00	628.90	40878.50
3	5.2	PVC ribbed screen strainer with nylon 125 mm dia having ISI mark, with opening space between 12% to 25% of the surface area and with average size of slot in between 1 mm to 1.50 having ISI mark.	Metre	9.00	709.10	6381.90
4	5.3	UPVC Column pipe withstanding 6 kgf/cm ² , 40 mm dia. Having ISI mark	Metre	45.00	146.80	6606.00
5	6.1.7 (h)	PVC End Cap 140 mm dia best quality having ISI mark	Nos	1.00	306.00	306.00
6	6.1.1 (h)	PVC socket 140 mm dia pressure 6kgf/cm ²	Nos	14.00	210.00	2940.00
7	6.1.2 (h)	PVC adopter	Nos	1.00	220.00	220.00
8	6.1.6	UPVC Reducing Socket 40 x 30 mm	Nos	1.00	237.00	237.00
9	6.8.1 (a)	Solvent cement (500 ml)	Nos	1.00	299.00	299.00
Sub Total -- (A)						59612.45
B. Labour cost for installation of STW						
1	8.1.1	Preparation of site for placement of the drilling rig including excavation of mud pit, circulation drain, collection chamber etc. all complete	Each	1.00	8126.00	8126.00
2	8.1.2	Movement of rig from the divisional HQ to the drilling site incl. cost of POL all complete as directed.	Km	30.00	29.00	870.00
3	8.1.3.a	Transportation of ancillary equipment..... To and fro including cost of POL all complete as directed upto 100 km distance divisional HQ	Km	30.00	43.40	1302.00
4	8.1.4.a	Transportation of all store materials..... as directed upto 100 Km distance divisional HQ	Km	30.00	43.40	1302.00
5	8.1.5.a	Transportation of air compression as directed upto 100 km distance divisional HQ	Km	30.00	43.40	1302.00
6	8.1.8 (b)	Providing water supply facilities at drilling site all complete as directed. By installing 1 no 5 Hp dewatering	Each	1.00	5412.00	5412.00
7	8.2.2	Boring in hard soil/pebble/Gravl by bit size 7 7/8 and collecting sample of soil at every 3.0 m depthall complete as directed. Using Rotary Rig.	Metre	75.00	1,289.00	96,675.00
8	8.5.1	Extraction of drilling pipe/bits including washing of bore hole all complete as directed.				
		1st Day	Metre	30.00	113.50	3405.00
		2nd Day	Metre	55.00	113.50	6242.50
		3rd Day	Metre	75.00	113.50	8512.50
9	7.1.14	Labour charge for sinking, lowering, fitting, fixing in position of 150 mm dia UPVC pipe assembly.....Complete as directed.				
		0 to 50	Metre	50	62.6	3130
		50 to 100	Metre	25	73.2	1830

10	8.5.5	Developing the bore well with air compressor, make - kirloskar/cumins all complete as directed.	Hr.	4.00	2593.50	10374.00
11	8.5.6	Supplying and packing in pea gravel around the periphery of caising including screening, wasing etc. all	Cu. m	5.74	2563.80	14716.21
Sub Total -- (B)						163199.21
(C) Cement Concrete floor base (1.50 m x 1.50 m)						
1		Construction of floor base Flat Brick soling, PCC and RCC, Plastering works as directed.	Sq.m	2.25		3874.00
Sub Total -- (C)						3874.00
Total (A+B+C)						226685.66
Deduction 5% VAT added						11334.28
Sub-Total =						215351.36
Add 12% GST						25842.17
Grand Total =						241193.53
Say Rs.						241194.00
(Rupees Two Lakh Forty One Thousand One Hundred Ninety Four) Only						

SPECIMEN COPY

LITHOLOG OF STW (Max. Depth upto 75m for Diesel/Electrical/SPV Pumpset)

Name & Add of Farmer :- i) Name.....
 ii) Father /Husband Name.....
 iii) Vill..... iv) P.O.
 v) Dist..... vi) EE(A)/AEE(A).....
 Date of Installation..... Latitude..... Longitude.....



Name & Signature of Farmer/Beneficiary

Name & Signature of Supervising officer (Jr. Engr)

Countersigned by

Name & Signature of Contractor (if engaged)

EE(A)/AEE(A)

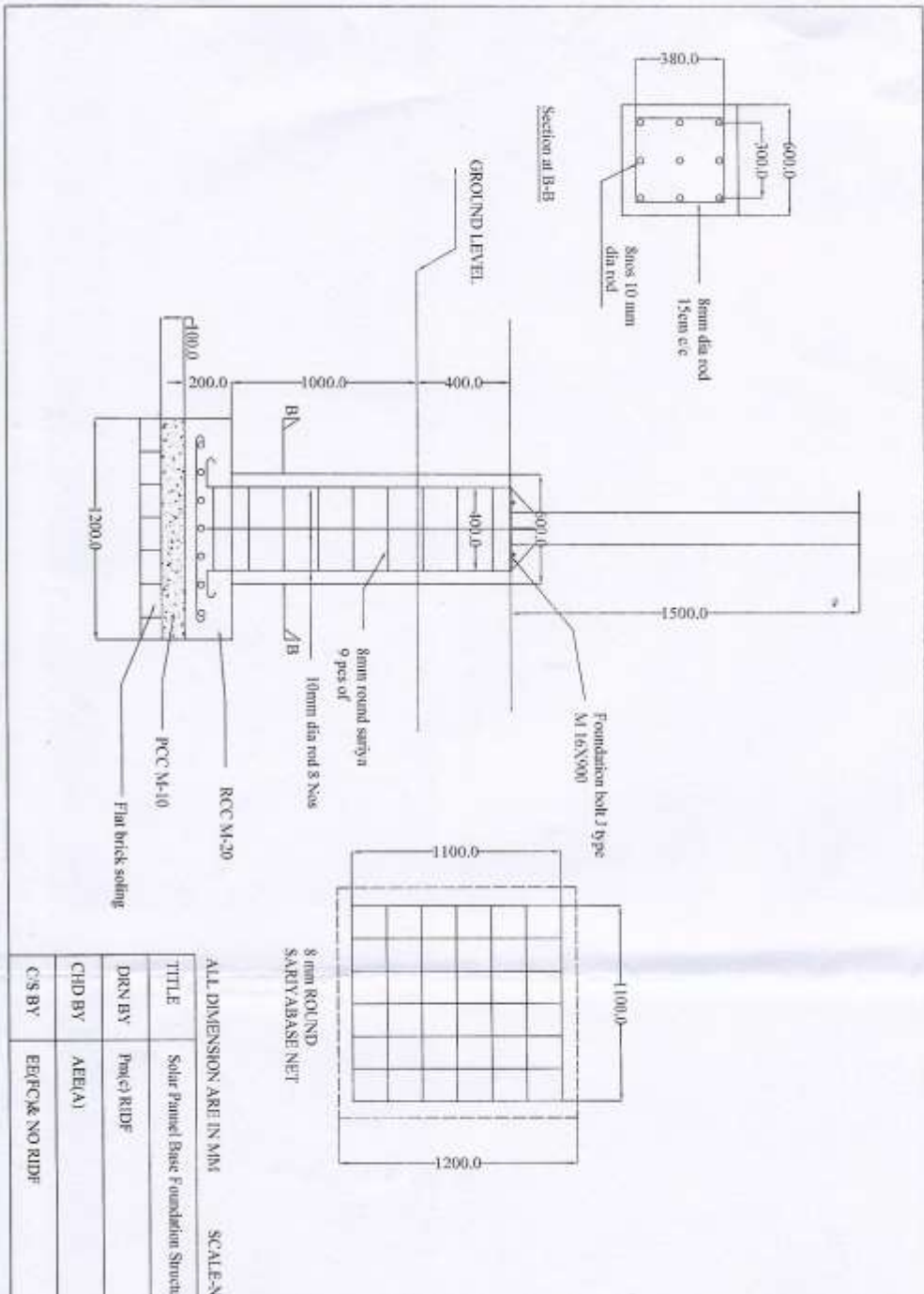
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Annexure-IX (B)

DETAILED ESTIMATE FOR RCC BASE FOR SPV PANNEL									
RATE:- Schedule rate of APWD (Building) Schedule for the year 2013-2014									
SL NO	Description of Item	Unit	NO	L	B	H	TOTAL	Rate	Amount
EARTH WORK									
1	Earth work in excavation for foundation trenches of walls, retaining walls, footings of columns, steps and septic tank etc. including refilling (return filling) the quantity as necessary after completing of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.								
	Foundation for Column	Cum	1	1.20	1.20	1.40	2.02		
	Total						2.02	Rs 108.82	219.38
BRICK SOLING									
2	Providing brick soling in Foundation and under floor with best quality poked (hama bricks, sand packed and laid to level and in panel after preparing the sub-grade as directed including cost material and labour: complete.								
	Brick on flat soling.	Sqm	1	1.20	1.20		1.44		
	TOTAL						1.44	368.71	530.94
PCC 1:2:4									
3	Plain cement concrete (1:2:4) works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls etc. as directed and specified including curing complete (shuttering where necessary shall be measured and paid separately).								
	Foundation for Column	Cum	1	1.20	1.20	0.10	0.14		
	TOTAL						0.14	4292.86	618.17
RCC									
4	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately).								
	(A) In Substructure upto plinth level.								
	Foundation footing, columns with base, tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100 mm thick upto plinth level. N) Without using admixture. c) M25 grade.								
	Foundation (square portion)	CUM	1	1.20	1.20	0.20	0.26		
	Above GL	CUM	1	0.60	0.60	1.40	0.50		
	TOTAL						0.79	5496.65	4353.35
TIMBER SHUTTERING (FORM WORK)									
5	Providing formwork of ordinary timber planking so as to give a rough finish including centering, strutting and propping etc. , height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removing the same for in situ reinforced concrete and plain concrete work in								
	Foundation	Sqm	1	4.80		0.30	1.44		
		Sqm	1	2.40		1.40	3.36		
	TOTAL						4.80	384.01	1747.25
STEEL REINFORCEMENT									
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete								
	Foundation (Horizontal)	kg/m	22	1.20	0.39		10.30		
	Foundation (Vertical)	kg/m	8	1.80	0.62		8.53		
	stirrup	kg/m	10	2.24	0.39		8.74		
	TOTAL						27.55	71.59	2001.65

CEMENT PLASTER SKIRTING WITH CEMENT MORATR IN PROPORTION 1:4								
7	Foundation portion 1	Sqm	1	2.40		0.40	0.96	
	Foundation portion 2	Sqm	1	0.60		0.60	0.36	
	TOTAL						1.32	230.44
TOTAL								9774.93
Price escalation due to old schedule rate 21% (@3% per year for 7 year)								2052.73
Total amount with rate escalation=								11827.66
Deduction 5% for VAT								591.38
Net Amount after deduction VAT =								11236.28
ADD 12% GST								1348.35
TOTAL VALUE OF WORK								12584.63

SAY RUPEES 12580.00 (Rupees twelve thousand five hundred eight only)



TITLE	Solar Panel Base Foundation Structure
DRN BY	Prac@RIDF
CHD BY	AEE(A)
C/S BY	EE/PC& NO RIDF

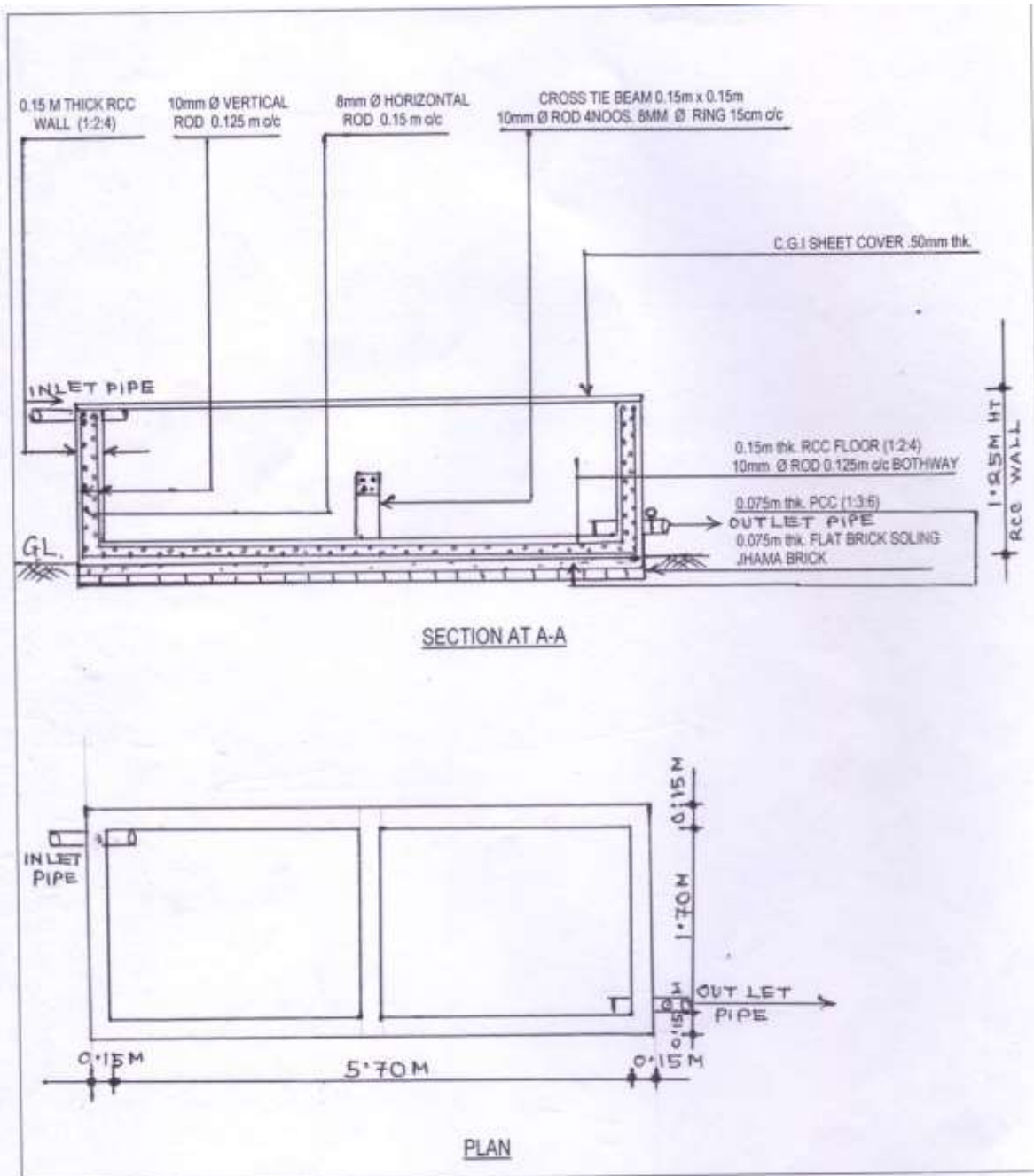
Annexure-IX(C)

**Name of work: Proposed construction of 10000 Ltrs capacity R.C.C water storage Tank.
(For Irrigation System)**

As per Schedule of Rates for APWD Building(Civil) for the year 2013-14

Sl No	SOR NO	Description of item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	1	EARTHWORK				
1	1.1(A) (a)	Earth work in excavation for foundation trenches of walls, retaining walls, footings of columns, steps and septic tank etc. including refilling (return filling) the quantity as necessary after completing of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified. (Upto a depth of 2m below the existing groundlevel) In ordinary soil.				
		Floor 6.00 x 2.00 x 0.30 = 3.60				
		Total = 3.60	cum	3.60	108.82	391.75
		BRICKWORKS				
2	4.1.1 (a)	Providing brick soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the sub grade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling.				
		Floor 6.00 x 2.00 = 12.00				
		Total = 12.00	Sq.m	12.00	368.71	4424.52
		P.C.C WORKS				
3	2.1.1 (a)	Plain Cement concrete Works with coarse aggregate of size 13 mm to 32mm in foundation of steps, footing of column and plinth beam as directed and specified including curing complete (shuttering where necessary shall be measured and paid separately) in prop. 1 cement:3 Sand :6 Coarse aggregate by volume.				
		Floor 6.00 x 2.00 x 0.05 = 0.60				
		Total = 0.60	Cu.m.	0.60	4292.86	2575.72
4	3.1.1.2	FORMWORKS	Sq.m	27.40	341.90	9368.06

		<p>Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4.0 m and removal of the same for in-situ reinforced concrete and plain concrete work.</p> <p>Sides of tie beams, grade beams etc. at or below ground level. Using 25mm thick plank</p> <table border="1"> <tr> <td rowspan="2">tie beam</td> <td>(2x1.50+2x5.5)x1.25</td> <td>=</td> <td>17.50</td> </tr> <tr> <td>(1.96+5.96)x1.25</td> <td>=</td> <td>9.90</td> </tr> <tr> <td colspan="3">Total</td> <td>27.40</td> </tr> </table>	tie beam	(2x1.50+2x5.5)x1.25	=	17.50	(1.96+5.96)x1.25	=	9.90	Total			27.40																						
tie beam	(2x1.50+2x5.5)x1.25	=		17.50																															
	(1.96+5.96)x1.25	=	9.90																																
Total			27.40																																
5	18.1.1	<p>IRON AND STEEL WORKS</p> <p>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete (upto 1st floor level).</p> <p>b) Other ISI approved TMT reinforcement bar (SRMB/SAI/BISCON/ X TECH) (For Assam Type Bldg., drain works, retaining wall & boundary wall etc. .</p> <table border="1"> <tr> <td rowspan="2">Floor</td> <td>(6.00 + 1) x2.00x0.62</td> <td>0.125</td> <td>60.76</td> </tr> <tr> <td>(2.00 + 1) x6.00x0.62</td> <td>0.125</td> <td>63.24</td> </tr> <tr> <td rowspan="3">Wall</td> <td>2x(5.50)</td> <td>x1.35x0.62</td> <td>73.66</td> </tr> <tr> <td></td> <td>0.125</td> <td></td> </tr> <tr> <td>2x(1.96)</td> <td>x1.35x0.62</td> <td>26.25</td> </tr> <tr> <td></td> <td></td> <td>0.125</td> <td></td> </tr> <tr> <td></td> <td>2x(1.25 + 1)</td> <td>x8.00x0.39</td> <td>68.64</td> </tr> <tr> <td></td> <td></td> <td>0.125</td> <td></td> </tr> </table>	Floor	(6.00 + 1) x2.00x0.62	0.125	60.76	(2.00 + 1) x6.00x0.62	0.125	63.24	Wall	2x(5.50)	x1.35x0.62	73.66		0.125		2x(1.96)	x1.35x0.62	26.25			0.125			2x(1.25 + 1)	x8.00x0.39	68.64			0.125		Qtl	4.58	6026.82	27602.80
Floor	(6.00 + 1) x2.00x0.62	0.125		60.76																															
	(2.00 + 1) x6.00x0.62	0.125	63.24																																
Wall	2x(5.50)	x1.35x0.62	73.66																																
		0.125																																	
	2x(1.96)	x1.35x0.62	26.25																																
		0.125																																	
	2x(1.25 + 1)	x8.00x0.39	68.64																																
		0.125																																	
		<table border="1"> <tr> <td colspan="2">Add for floor double jali</td> <td>124.00</td> </tr> <tr> <td colspan="2"></td> <td>416.55</td> </tr> <tr> <td colspan="2">Add 10% for lapping etc.</td> <td>41.65</td> </tr> <tr> <td colspan="2">Total Quantity in Kg</td> <td>= 458.20</td> </tr> <tr> <td colspan="2">Total Quantity in Quintal</td> <td>= 4.58</td> </tr> </table>	Add for floor double jali		124.00			416.55	Add 10% for lapping etc.		41.65	Total Quantity in Kg		= 458.20	Total Quantity in Quintal		= 4.58																		
Add for floor double jali		124.00																																	
		416.55																																	
Add 10% for lapping etc.		41.65																																	
Total Quantity in Kg		= 458.20																																	
Total Quantity in Quintal		= 4.58																																	
6	2.1.1(I) (A)(N) (a)	<p>R.C.C Work</p> <p>Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)</p> <p>(I) Using Mixer Machine</p>	Cu.m.	4.04	5496.65	22206.47																													



PROPOSED PLAN L-SECTION OF CONSTRUCTION OF 10,000 LT CAPACITY WATER STORAGE TANK AT GROUND LEVEL (RCC)			
SCALE	DRAWN BY	CHECKED BY	APPROVED
NTS	 PM(RIDF)	 AAE	

Annexure-IX(D)

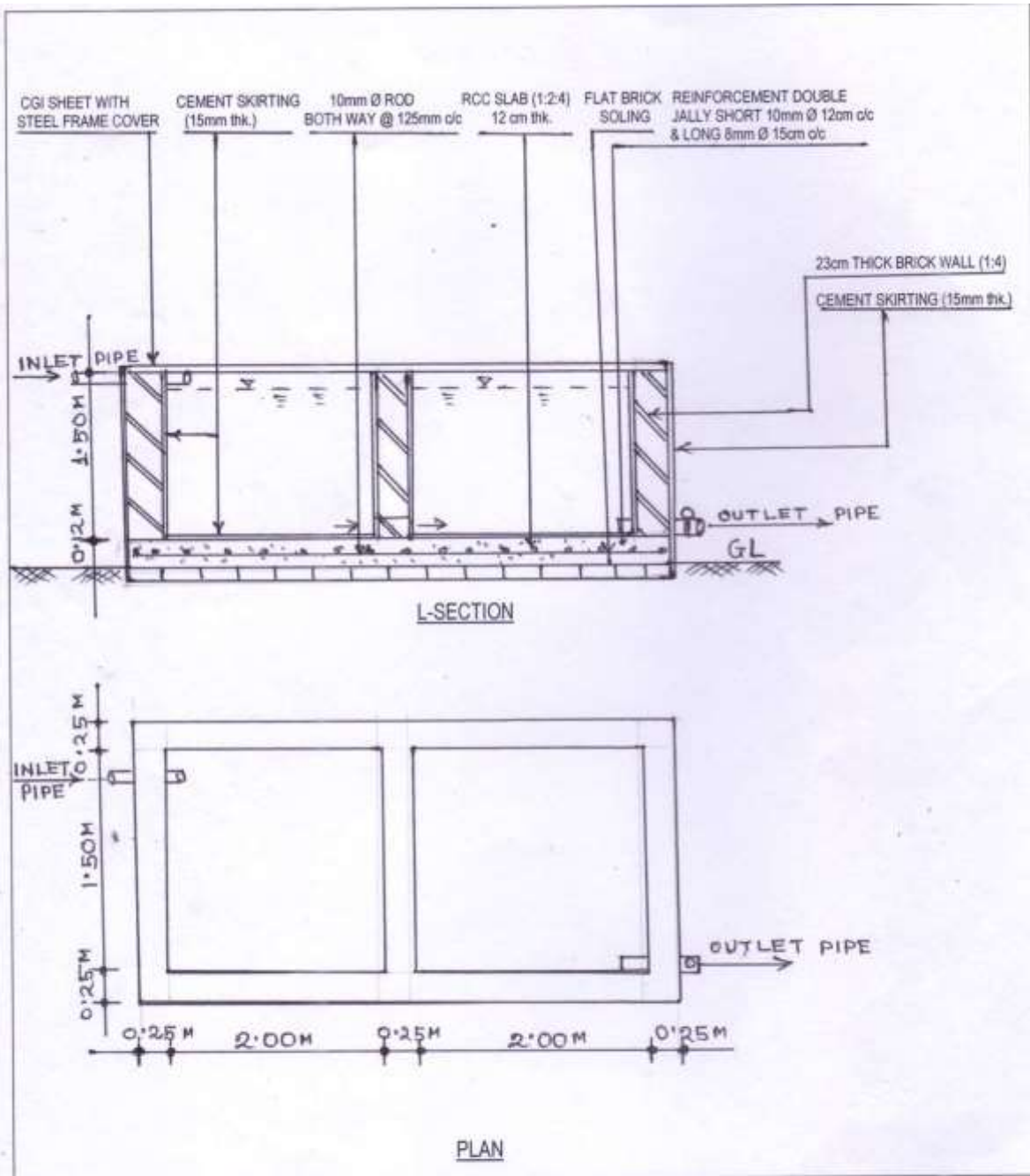
Name of work: Proposed construction of 10000 Ltrs capacity Brick water storage Tank.

(For Irrigation System)

As per Schedule of Rates for APWD Building(Civil) for the year 2013-14

SI No	SOR NO	Description of item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	1	EARTHWORK				
1	1.1(A) (a)	Earth work in excavation for foundation trenches of walls, retaining walls, footings of columns, steps and septic tank etc. including refilling (return filling) the quantity as necessary after completing of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified. (Upto a depth of 2m below the existing groundlevel) In ordinary soil.				
		Floor 5.00 x 3.00 x 0.30 = 4.50				
		Total = 4.50	cum	4.50	108.82	489.69
		BRICKWORKS				
2	4.1.1 (a)	Providing brick soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling.				
		Floor 5.00 x 3.00 = 15.00	Sq.m	15.00	368.71	5530.65
		Total = 15.00				
3	4.1.4	Brickwork with cement mortar (1:4) with first class brick including racking out joint and curing as directed.	cum	5.35	5860.86	31340.95
		15.50 x 1.50 x 0.23 = 5.35				
		R.C.C WORKS				
4	2.1.1	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)				
		Floor 4.75 x 2.50 x 0.12 = 1.43				
		Total 1.43	Cu.m.	1.43	5496.65	7860.21
5	18.1.1	IRON AND STEEL WORKS	Qtl	2.01	6026.82	12113.90

		Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete (upto 1st floor level). b) Other ISI approved TMT reinforcement bar (SRMB/SAI/BISCON/ X TECH) (For Assam Type Bldg., drain works, retaining wall & boundary wall etc. .								
		Floor	20 x 5 x 0.62 x 2			=	124.00			
			30x2.5x0.39x2			=	58.5			
						=	182.50			
		Add 10% for lapping etc.					=	18.25		
		Total Quantity in Kg					=	200.75		
		Total Quantity in Quintal					=	2.01		
6	5.10	Cement Concrete Flooring								
	5.1.10	15 mm thick Cement plaster skirting In cement mortar 1:3								
		Floor	2	x	2	x	2	=	8	
		Wall Plaster	1	x	14.5	x	1.75	=	25.38	Sq.m
			8	x	8	x	1.75	=	28	
		Total					=	61.38		
8	8.1	Roofing								
		Providing CGI Sheet roofing...					Sq.m	11.88	450.45	5349.09
	8.1.1(a)	(a)	0.45 mm thick							
			4.75	x	2.5	=	11.88			
		Total					=	11.88		
9	18.60	Angles/Flats/Bolts and Nuts								
	18.6.1	Supplying, fitting and fixing M.S.Angles, M.S.Flat...								
	(b)	(b) M.S.Flats					Qtl	0.50	9604.99	4802.50
		Steel Frames	25			=	25			
		Total Quantity in Rm					=	25		
		Total Quantity in Qtl					=	0.50		
10		Full way Valve with pipe 50mm dia							LS	600.00
Grand Total=									Rs.82,230.24	
Deduct 5% VAT									Rs.4111.51	
									78118.73	
Add 12% GST									9374.25	
Total									87492.98	
Deduct Contractor profit									8749.30	
									78743.68	
Say Rs.									78744.00	



PROPOSED PLAN L-SECTION OF CONSTRUCTION OF 10,000 LT CAPACITY WATER STORAGE TANK AT GROUND LEVEL (BRICK)

SCALE	DRAWN BY	CHECKED BY	APPROVED
NTS	 PM (RIDEF)	 AAE	

STATEMENT B (I)

Subsidy claim format against construction of Water Storage Tank (RCC/Brick Mason)

SN	Particulars of Beneficiaries	Sanction Order detail		Details of construction of Water storage tank (WST)		Details of Subsidy amount to be released to the beneficiary from Directorate
		No. & Date	Amount(inclusive of all taxes) (Rs)	Actual Cost for construction of WST as per MB record and Bill (inclusive of all taxes) (Rs)	Measurement recorded i) at MB No. ii) at page iii) at date iv) Bill no. v) Bill date vi) Entry at bill register	
1	2	3	4	5	6	7

Certified that the work is completed as per approved plan and specification and all the documents mentioned in this format are retained in this office. Enclosed photograph of WST with beneficiaries and Annexure-V, Work Order and Sanction order to beneficiary, DLSC approved list,t. Certified that claim is submitted on being satisfied on performance/ all taxes are already paid by farmer.

Issue No. Date.....

Countersigned

Checked By:

Prepared By:

Sealed & Signature of EE(A)/ AEE(A) AAE to EE(A)/AEE(A).....

JE to EE(A)/AEE(A).....

STATEMENT B (II)

Subsidy claim format against installation of STW and SPV Water Pumping System [separate sheet (SPV wise) shall be used]

SN	Particulars of Beneficiaries	Address Supplier for installation of STW and SPV Water Pumping System	Sanction Order detail		Details of installation of STW		Details of SPV Water Pumping System		
			No. & Date	Amount(inclusive of all taxes) (Rs)	Actual Cost for installation of STW including materials as per MB record and Bill (inclusive of all taxes) (Rs)	Measurement recorded i) at MB No. ii) at page iii) at date iv) Bill no. v) Bill date vi) Entry at bill register	Actual cost as per Tax invoice (Rs)	Stock Entry i) SB No. ii) Page No. iii) Model No iv) Panel No. v) Array No.	i)Date of Commissioning ii) Commissioned by iii) Result iv) Date of handed over and taken over
1	2	3	4	5	6	7	8	9	10

Details of Farmer's Share in favour of Empanelled Vendor/ Supplier		Details of Subsidy amount to be released to party from Directorate	
25% of total cost of STW	15 % of total cost of SPV	For STW- 75 % of total cost to the construction mentioned in col. No. 6 A/C No. of Supplier /Bank name/Branch/ IFSC Code. (Rs)	For SPV Water Pumping System- 85% of actual Cost to the Party mentioned in Col. No. 8 Bank particulars for supplier(SPV) Bank Name/Branch/ IFSC Code/ A.C No. (Rs)
i) BD Amount of Rs. ii) BD no..... & Date..... iii) BankBranch iv) IFSC code In favour of Supplier deposited to District Engineer. BD released to the Supplier. (Rs)	i) BD Amount of Rs. ii) BD no..... & Date..... iii) BankBranch iv) IFSC code In favour of SPV supplier deposited to District Engineer. BD released to the Supplier(SPV) , (Rs)		
11	12	13	14

Certified that the work is completed as per approved plan and specification and all the documents mentioned in this format are retained in this office. Enclosed photograph of STW/ SPV system with beneficiaries and Annexure-V, Work Order and Sanction order to supplier of SPV Pumping system, DLSC approved list, Litholog, beneficiary share submitted statement. Certified that claim is submitted on being satisfied on performance/ all taxes are already paid by farmer/ supplier.

Issue No. Date.....

Countersigned

Checked By:

Prepared By:

Sealed & Signature of EE(A)/ AEE(A)

AEE to EE(A)/AEE(A).....

JE to EE(A)/AEE(A).....

845 59

Demand for release of Remuneration of NGO Under RIDF Scheme

Statement - C
Annexure - 1

Natio of 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
 District Allotted :
 Period :
 Engagement order No :
 Extension of Engagement Order No :

Sl. No.	Application Collected from the Date of Engagement	Application approved by DLS from the Date of Engagement	Application Sanctioned by District Engineer from the Date of Engagement	Details of STW installed			Details of Remuneration based on column 7										Remarks	
				STW installed during the period (iv)	STW installed for which remuneration already released (No)	Balance STW installed for which remuneration to be paid (No)	Application collected/awarsons @ Rs.105,800/Each	IGP Reading @ Rs 30,000/Each	Water sample collection @ Rs 18,700/each	Water sample delivered to Lab @ 30,250/Each	Arrangement for STW installation @ Rs 250,000/each	Total Remuneration (Rs)						
1	2	3	4	5	6	7-8-9	8	9	10	11	12	13	14	15	16	17	18	19
				(No)	(No)												10+9+11+13+15+17	Enclosed list of beneficiary of STW installed as per col. 7 (Annexure III)

Bank Details:
 Name of the Account Holder
 Branch:
 A/C No.:
 IFSC:

Prepared by
 NGO

Checked By
 H/NAI

Approved By
 H(CA)/AL/CA

60

Annexure-II Staford - D

Details of beneficiaries (as per column 7 of Annexure I) for Remuneration to be paid to NGO against STW installed under RIDF
(i) Name of NGO : _____
(ii) District : _____
(iii) Period : _____

Sl No	Name and Address of Farmers	Date of installation	Depth of STW	GPS Reading	Water sample collection details						Remark
					Date of collection	Date of submission of sample in the lab.	Name of the lab.	Date of the result collection	Pump supplied by the company or not		
1											
2											
(A) For Diesel pumpset											
(B) For Electrical pumpset											
(C) For SPV pumpset											

Signature of NGO

Checked by

Countersigned by

JIE

EE(A)/AEE(A)