Limited Tender Form

Name of the Procuring Entity: Executive Engineer, Hydrology division,

Central Water Commission, Velachery, Chennai.

Name of the work: "Designing and printing of forms and register"

Firm's Reference	Date	
Firm Registration No. (if any) (attach photocopy)	PAN (attach photocopy)	
TIN/VAT/GST No. Phone Fax Email	Address: Coffice of Executive Engineer TENDER Central Water Commission Hydrology Division, "NEERVALAM" No.81, TNHB Colony, West Velachery Chennai - 600042 E-mail: eecwcchennai@yahoo.co.in	
M/s:	Enquiry No. and Date	
	The tender would be opened at 3.30 pm on the date of tender operation above, at the address mentioned above.	ening

Limited tender form can be downloaded from **www.cwc.gov.in or www.eprocure.gov.in**. However in order to be able to participate in the tender, it is mandatory to download official copy of tenders from **www.eprocure.gov.in**.

I confirm that this tender document complies with the "Public Procurement (Preference to Make in India) Order, 2017" issued by DIPP and "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" issued by MoSME.

Note: Please submit on or before 3:00 pm on the date of tender opening (02/12/2022), your quotation for the following works, in accordance with the terms and conditions printed overleaf, in a sealed cover, marked on topwith – Enquiry No; Date of Tender Opening.

Yours Sincerely, The Executive Engineer Central Water Commission Hydrology Division,''NEERVALAM'' No.81, TNHB Colony,West Velachery Chennai – 600042

Name of the work: "Designing and printing of forms and register

Tender Schedule: All Rates in Figures and in Words in Rupees

Sl. No	Description and Specification	Qty.	Unit	Performance terms	Rate per Unit	Taxes& Duties	Packing/ forwarding/ If any	Total Amount
	RD 1 HPSW04 - (Record of velocity measurements for stage discharge observation)	273	Forms/ 100 folio	As per SOP of work and in accordance with the direction given by				

				Engineer-in-			
				charge			
2	RD 1 HPSW04- (Record of	132	Dogistor/				
_	velocity measurements for	152	Register/ 100 folio				
	stage discharge			-do-			
	observation)						
3	RD 2 HPSW05 - (Record of	44	Forms/				
	Summary of Stage		100 folio	-do-			
	Discharge)						
4	RD 2 HPSW05- (Record of	88	Register/	-do-			
	Summary of Stage		100 folio				
	Discharge)						
	RD 3 HPSW01 - (Record of	33	Forms/	-do-			
	water level and		100 folio				
	Temperature Data)						
6	RD 3 HPSW01 - (Record of	44	Register/	-do-			
	water level and		100 folio				
	Temperature Data)						
7	RD 4 HPSW03 - (Record of	33	Forms/	-do-			
	Hourly Data)		100 folio				
8	RD 4 HPSW03 - (Record of	44	Register/	-do-			
	Hourly Data)		100 folio				
9	RD 5 MET 05 - (Record of	33	Forms/	-do-			
	Climatic – Data Twice Daily		100 folio				
	Data)						
10	RD 5 MET 05 - (Record of	44	Register/	-do-			
	Climatic – Data Twice Daily		100 folio				
	Data)						
11	RD 6 - (Record of Rainfall)	33	Forms/	-do-			
			100 folio				
12	RD 6 - (Record of Rainfall)	44	Register/	-do-			
			100 folio				
13	RD 7 - (Daily Record of	30	Forms/	-do-			
	Suspended Sediment		100 folio				
	analysis)						
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14	RD 7 - (Daily Record of	30	Register/	-do-			
	Suspended Sediment		100 folio				
	analysis)						
15	DD 9 /Ton Doily Statement	30	Forms/	-do-			
15	RD 8 - (Ten Daily Statement of Suspended Sediment	30	Forms/ 100 folio	-uo-			
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	Analysis)						
16	RD 8 - (Ten Daily Statement	30	Register	-do-			
	of Suspended Sediment		/100 folio				
	Analysis)						
17	Particulars of B.O.D Sample	24	Forms/	-do-			
			100 folio				
10	Darticulars of D. O. D. Cample	15	Pogistor/	-do-			
10	Particulars of B.O.D Sample	15	Register/ 100 folio	-uo-			
			100 10110				
19	Particulars of Bed Material	30	Forms/	-do-			
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20	Particulars of Bed Material	30	Register/	-do-			
	survey		100 folio	u o			
21	Particulars of River Water	30	Forms/	-do-			
21		30		-uo-			
	Sample		100 folio				
22	Particulars of River Water	30	Register/	-do-			
	Sample		100 folio				
23	Results of D.O & B.O.D of	15	Forms/	-do-			
	River Water Sample		100 folio				
24	Results of D.O & B.O.D of	15	Register/5	-do-			
	River Water Sample		0 folio	40			
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25	Discharge Field Book	45	Register/1	-do-			
			00 folio				
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26	Inspection and Quality	45	Register as	-do-			
	Audit Report Register		per				
			sample				
27	Graph Sheet A1 size - Green	1800	As per	-do-			
-	colour	_555	sample				
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28	File Folder – HD	200	As per	-do-			
			sample				
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29	File Folder – PPSD	100	As per	-do-			
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			sample					
30	File Folder – CDSD	100	As per sample	-do-				
31	File Folder – PSD	100	As per sample	-do-				
32	File pad	300	As per sample	-do-				
							Total	
						•	Grand Total	
	Total amount in words							
Perf	ormance Schedule: 30 days	from issu	e of work o	rder.				
Spec	ifications/Special Condition	s of Con	tract: work	should be per	formed as per	CPWD manu	al/specification	on & direction

Item/Tender Specific Conditions of this Tender:

of Engineer-in-charge.

I/ we engage to performance the works to your office and comply the following:

- 1. Tender schedule and technical specification indicated. (Specification copy attached)
- 2. Item/tender specific conditions for this tender.
- 3. Terms and conditions printed overleaf.
- 4. General conditions of contract signed by me at the time of supplier registration (for registered suppliers).
- 5. I/we confirm that set off for the GST, etc. Paid on the inputs have been taken into consideration in the above quoted price and further agree to pass on such additional duties as sets offs as may become available in future under GST, etc.
- 6. This offer is valid for 90 (ninety) days from the date of opening of the quotations.
- 7. That we have not been debarred by any Government/Undertaking.
- **8.** MSME certificate should submit along with this quotation.
- 9. That the rates quoted are not higher than the rates quoted for same item to any Government / Undertaking. 10. That the bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

Signature & Seal Place & Date:	Name of Authorized Signatory:	
Address:	Tel. No./ Fax. No./ MobileNo. Email Id:	

TERMS AND CONDITIONS OF LIMITED TENDER

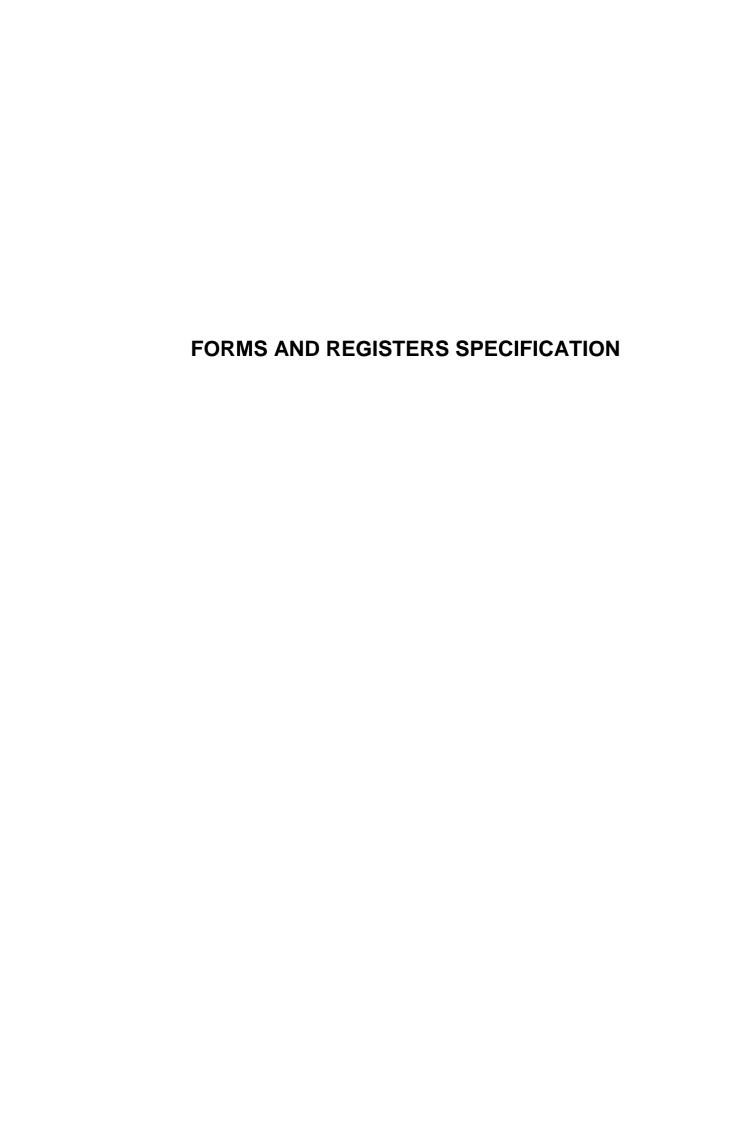
- The quotation must be in the form furnished by procuring entity and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not the quotation will not be considered. Quotation written in pencil will not be considered.
- ii) Quotation will be opened on due date at 3.30 pm at the indicated venue in presence of the entities or their representatives who may wish to be present.
- The Government of India reserves the right to accept the offer by individual items and reject any or all tenders without assigning any reason thereof and does not bind itself to accept lowest quotations.
- Participation in this tender is by invitation only and is limited to the reputed entity involved in similar type of work.

 Unsolicited offers are liable to be ignored. However, relevant entity who desire to participate in such tenders in future may bring it to the notice of procuring entity and apply for registration as per procedure.
- v) Complete details and specification if any must accompany the quotation. If you have got any counter offer as suitable to the material required by us, the same may be shown separately.
- vi) The Government of India reserves the right to modify the work specified in this enquiry.
- The prices quoted should be firm till the works are completed. Please quote the rates in words and figures. Price quoted should be net and valid for a minimum period of three months from the date of opening of the quotation.
- Payment of GST is primarily the responsibility of the seller and will not be paid unless the percentage value is clearly mentioned in the quotations. If no indication regarding GST is recorded in the quotation, the GST will be considered as included.
- ix) The performance period required for completion of work should be invariably specified in the quotation.
- In case your quotation is accepted and order is placed on you, the work completion against the order should be made within the period stipulated in the order. The Government of India reserves the right to recover any loss sustained due to delayed completion of work by way of penalty. Failure to performance of work within the stipulated period shall entitle Procuring Entity for the imposition of penalty without assigning any reasons @ 0.5% of the total value of the item covered in order as penalty per day subject to a maximum of 5% (five percent) unless extension is obtained in writing from the office on valid ground before expiry of performance period.
- xi) The quotationers may visit the site before submitting quotation of the above work.
- Dispute clause: Any dispute relating to the enquiry shall be subject to the jurisdiction of the court at Chennai (name of the place of tender invitation) only.
- Our normal payment will be made to the contractor on satisfactory completion of work on submission of prereceipted bill in triplicate with mandate form, payment will be made by through e-payment.

Copy to

1. Superintending Engineer, C&SRC, CWC, Bengaluru

(वसंतकुमार वी)/(VASANTHAKUMAR V) अधिशासी अभियंता/Executive Engineer



SI.NO : 1 RD 1 HPSW04 Forms

{A3 size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board}

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SI.NO: 2 RD 1 HPSW04 Register

{A3 size 8Kg maplitho paper white (Double side printing) 100 sheet (Binding 1.5 bound Thick Board}

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SI.NO:3 RD 2 HPSW05 Form

{A3 size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board}

SI.NO: 4 RD 2 HPSW05 Register

{A3 size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board}

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION RECORD OF SUMMARY OF STAGE-DISCHARGE SUB-ON/SION | DISTORT | DISTORT | STAGE-DISCHARGE | SUB-ON/SION | DISTORT | DISTORT | STAGE | DI

SI.NO: 5 RD 3 HPSW01 Forms {Legal size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board}

CWC/HP-SW-01 CWC/RD-3

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

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SI.NO: 6 RD 3 HPSW01 Register
{Legal size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick board}

CWC/HP-SW-01 CWC/RD-3

GOVERNMENT OF INDIA

ub-Divisio	n:					Division : Hydro	logy division
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SI.NO: 7 RD 4 HPSW03 Form {A3 size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board)

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SI.NO: 8 RD 4 HPSW03 Register {A3 size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board)

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31					-																	_	_		
bserver's	Remarks																								
-			Form fille	art trace				Manune	aript Checi	init.				Data ente	envi A Ch	ecked by			Pi	rimary Va	lidation di	one by			

SI.NO: 9 RD 5 MET05 Form [A3 size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board)

Sub-Divisio	n :																DI	VISION	: HYDI	ROLOG	SY DIVI	ISION			
Station Name	6					5	itation Co	ide:					Str	ation Cod	e :					Statio	on Code				
Latitude :			_			L	ongitude	-	0	1	н														
OBSERVATI	ONS AR	E AT 08	30 & 17	30 HRS I	ST)											13	Year:		Month						
Date	Min Te		Max.	Temp C)		alb Temp. *C)	Wet Bu		Rel. H	lumidity %)	Inst. W	ind Speed (m/h)		d Speed		Direc pts.)		infall nm)	Pan Eva (m	poration m)	Pan War	ter Temp. C)	Abs Pr	essure	Remarks
	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17,30	08,30	17.30	08.30	17.30	08.30	17.30	
LDoPM 1	-											-													
2																									
3 4	-	-	_																						
5																									
6																									
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LDoM																									
Total Average																									
Av/Total																									
	arks:																								
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bserver's Rem	om filled	hu				Manuscr	ipt Check	ed				Checked	Lhu				Dalman		on done by					_	

SI.NO : 10 RD 5 MET05 Register

{A3 size 8Kg maplitho paper white (Double side printing) 100 sheet (Binding 1.5 bound Thick Board}

Sub Div	ielen :					1	LU		, 01	CL	_11417	4110	, - 1	WWI	<i>-</i>	DAI									
Sub-Div	ision : _																DI	VISION	: HYD	ROLOG	SY DIVI	ISION			
Station Na	me:					8	itation Co	ode:				_	Sta	tion Cod	9 :				-	State	on Code	-		_	
.atitude : _						L	ongitude	:	0	1															
OBSERV	ATIONS	ARE AT 0	830 & 17	730 HRS	IST)											. Y	ear:		Month	-					
Date		Temp.	Max	. Temp		b Temp.		ib Temp.	Rel. H	umidity %)	Inst. Wi	ind Speed mih)	Av.Win	d Speed n/h)		Direc pts.)		infall nm)	Pan Eva	aporation nm)	Pan Wa	ter Temp.	Abs Pres	sure	Remarks
LDoPM	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17.30	08.30	17,30	08.30	17.30	08.30	17.30	08.30	17.30	
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10																					1				
12	_							-																	_
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16																									
17																									
18																									
20	1																							-	
21																									
22	-	-			-	-		-																_	
24																									
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27																									
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29 30																									
31																									
LDoM																									
Total Average																									
Av/Total																									
server's F	Remarks :																								
	From fill	nd by				Manuscr	ipt Check	ed				Checked	hv				Driman	v Malidatio	n done by					-	

SI.NO : 11 RD 6 Form {Legal size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board}

CWC/RD - 6

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION

ver			Site		Code No
			Raingauge: Ordin	nary / Self recording	
Date	Rainfall at 08.30 Hrs (mm)	Rainfall at 17.30 Hrs (mm) on the previous day	Total Rainfall during the day (mm)	Cumulative Rainfall till date for the month (mm)	Remarks
1	2	3	4	5	6
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
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25					
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28					
29					
30					
_					
(i) Ti	ill the end of pre	rent month		mm	
umber	or rainy days du	ring the current m	onth		
ig. of Ol	bserver		Sig. of S.D.O		Sig. of EE
					Division

SI.NO : 12 RD 6 Register
{Legal size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board}

CWC/RD - 6

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION

RECORD OF RAINFALL FOR THE MONTH OF.

		Type of	Raingauge: Ordin	nary / Self recording	
Date	Rainfall at 08.30 Hrs (mm)	Rainfall at 17.30 Hrs (mm) on the previous day	Total Rainfall during the day (mm)	Cumulative Rainfall till date for the month (mm)	Remarks
1	2	3	4	5	6
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
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29					
30					
Total					
otal Rair (i) Ti (ii) Ti	Il the end of pre	rent month		mm	
			F-Targette		Sig. of EE
					Division
					Uvision

SI.NO: 13 RD 7 Form

{A3 size 8Kg maplitho paper white (Double side printing) 100 sheet (Binding 1.5 bound Thick Board)
Front

											JSPEN		EDIME	NT A	NAL	YSIS	DIVISION: I Time from River water or	olour	to		
ampling lode of S	Section :	Gauge line By launch	/ Bridge / / Cable wa	Temporary y / Boat w	y Section ith or with:	out O.B.E. /	Wading			Date							River water to Weather				
			RECOR	RD OF SAM	MPLING						Coarse sedim	ent (above 0.2 M	m)	SEDI	MENT AN	IALYSIS	Medium sedime	nt (between 0.2	And 0.075 mm)	XX = -	
R.D. of sampling section	Water depth (m)	Sampling depth (m)	Velocity (m/s)	Volume of sample (I)	Group No.	Volume of composite sample (1)	Group discharge (m*/s)	Group rumoff (Ha.m)	Dish No.	Weight of empty dish (g)	Weight empty dish + dry sediment (g)	Weight of sediment (g)	Concentrati on (g/l)	Load (tonnes / day)	Dish No.	Weight of empty dish (g)	Weight of empty dish + dry sediment (g)	Weight of sediment (g)	Concentrati on (pli)	Load (tormes / day)	Ramarks
1	2	3	4	5	6	7	8	9	10	11	12	13	- 14	15	16	17	18	19	20	21	22
											10.										
																1					
												144									

Back

Fine sediment concentration	Below 0.075 mm	*Total Dissolved Solids	Gauge and discharge of
Veight of filter paper (g)		Weight of the empty dish (W ₁)g	Gauge beginning (m)
eight of filter paper + Dry sediment (g)		Weight of the empty dish + Total	Gauge end (m)
om Litres)		dissolved solids in 100 ml (W ₂)g	Mean Gauge (m)
sight of sediment (g)		Weight of dissolved solids in 100 ml	Zero R.L. (M)
rom Litres)		(W ₂ -W ₁) g	Mean W.L. (M)
oncentration (g/l)		Concentration in 1000 ml (W ₂ -W ₁) 10	Discharge (m³/s)
oad tonnes / Day)		Concentration (W2-W1) 10000 mg/l	Runoff per day (Ha-m)
			Mean Velocity (m/s)
Analysed in every ten days		ABSYDACT OF SERIMENT	
Analysed in every ten days	Grade	ABSTRACT OF SEDIMENT Concentration (g/f)	Load (tonnes / day)
Analysed in every ten days	Grade Coarse		Load (tonnes / day)
Vnalysed in every ten days	70000		Load (tonnes / day)
Nullysed in every ten days	Coarse		Load (tonnes / day)
houlysed in every ten days	Coarse Medium		Load (fonnes / day)
nalysed in every ten days	Coarse Medium Fine		Load (tionnes / day)
nabysed in every ten days Signature of observer:	Coarse Medium Fine		Load (fonnes / day) Signature of Inspecting Officer:

 $\underline{SI.NO: 14\ RD\ 7} \quad \underline{Register} \\ \{A3\ size\ 8Kg\ maplitho\ paper\ white\ (Double\ side\ printing)\ 100\ sheet\ (Binding\ 1.5\ bound\ Thick\ Board\}$

Front

the or se	ampling:	Gauge line By launch	/ Bridge / / Cable wa	Temporary y / Boat wi	Section th or without	de No. of sit out O.B.E. /	le	**********			JSPENI		DIIVIE	NI AI	VAL		River water or River water to Weather	olour emp. Beg		End	
			RECOR	RD OF SAM	MPLING						Water to the same	nt (above 0.2 Mr		SEDIM	MENT AN	ALYSIS	Medium sedime				
sampling section	Water depth (m)	Sampling depth (m)	Velocity (m/s)	Volume of sample (I)	Group No.	Volume of composite sample (1)	Group discharge (m*/s)	Group runoff (Ha.m)	Dish No.	Weight of empty dish (g)	Weight empty dish + dry + dry sediment (g)	Weight of (a)	Concentrati on (gf)	Load (tonnes / day)	Dish No.	Waight of empty dish (g)	Weight of + dry assignment (g)	Weight of (g)	Concentrati	Load (tonnes / day)	Samarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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	-																				
																4					
												144									
-					_		_														
							1														
-															- 15						
					Total																

Back

Fine sediment concentration	n Below 0.075 mm	*Total Dissolved Se	olids	Gauge and o	discharge data
Weight of filter paper (g)		Weight of the empty dish (W ₁)g		Gauge beginning (m)	
Veight of filter paper + Dry sediment (g)		Weight of the empty dish + Total		Gauge end (m)	
From Litres)		dissolved solids in 100 ml (W ₂)g		Mean Gauge (m)	
Veight of sediment (g)		Weight of dissolved solids in 100 ml		Zero R.L. (M)	
From Litres)		(W ₂ -W ₁) g		Mean W.L. (M)	
Concentration (g/l)		Concentration in 1000 ml (W ₂ -W ₁) 10		Discharge (m³/s)	
oad tonnes / Day)		Concentration (W2-W1) 10000 mg/l		Runoff per day (Ha-m)	
				Runoff per day (Ha-m) Mean Velocity (m/s)	
	Grade	Concentration (W2-W1) 10000 mg/l ABSTRACT OF SEDIMENT Concentration (g/l)	Load (tonnes / da	Mean Velocity (m/s)	
	Grade Coarse	ABSTRACT OF SEDIMENT		Mean Velocity (m/s)	
		ABSTRACT OF SEDIMENT		Mean Velocity (m/s)	
	Coarse	ABSTRACT OF SEDIMENT		Mean Velocity (m/s)	
	Coarse Medium	ABSTRACT OF SEDIMENT		Mean Velocity (m/s)	
	Coarse Medium Fine	ABSTRACT OF SEDIMENT		Mean Velocity (m/s)	
toad tonnes / Day) * Analysed in every ten days Signature of observer:	Coarse Medium Fine	ABSTRACT OF SEDIMENT	Load (tonnes / da	Mean Velocity (m/s)	

 $\underline{SI.NO: 15\quad RD~8\quad Form} \\ \{A1~size~8Kg~maplitho~paper~white~(Single~side~printing)~100~sheet~(Binding~1.5~bound~Thick~Board) \}$

DIVISION						**********															DIVISION
Rive														Code No							
Rock	k and / Se	If type at	site											Zero R.L. of	gauge						
			(Coar	se sedimi	ent g/()							-	Mediur	sediment g	2/1)				Fine	Dissolved	Mean
Date	į.	11	181	IV	V	VI	VII	Total	Mean .	1	11	111	īV	V	VI	VII	Total	Mean	sediment (g/l)	Material (g/l)	velocity m / s
1																					
2																					
3																					
4																					
5																					
6																					
7.																					
5																					
9																					
0																					
1																					
Total																					
Average																					
M.Total																					
m.av																į,					
									DAILY	SUSP	ENDE	D SEDI	MEN	TLOAD							
		ean.			7 700		C-	arse sedi	0.0000000000000000000000000000000000000	-	Medium s	100000	AILEIA			-	-				
Date	wate	ir level	Disc	harge Vs)	Ru	noff nd Ha.m)	Concentr		Load	_	ntration	Load	- 0	oncentration	sediment	of.	Concentration	sediment			Remarks/
	(m)	100	45)	(iniousai	nu ria.m)	(g/l)		onnes/day)	(9		(tonnes/da		(g/I)	(tonnes		(g/l)		ad is/day)	Mod	de of Sampling
		1		2		3	- 4		5	1	6	7		8	9		10	_	1		12
1																					
2																					
3																					
4																					
5			-																		
6																					
7 8	-	_	-										-								
9	-									-			-								
0	-		-							-			-		-						
1	-		-				-	-		-			-								
Total			-		-			-	_	-	_		-								
Average								-		-			-		-						
M.Total	-																				
mav.															1			-			
117-484	Sinnatu	re of Obs	enw.		-		Since	nature of 5	DE							No. of	400				
	Name	- u. u.u.						-Division	ALC: C						-	egnatur	e of Executiv	e Engineer			

SI.NO : 16 RD 8 Register
{A1 size 8Kg maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board}

DIVISIO	N :					***********	**********														DIVISION
Rive	V			S	te								0	ode No							
Roci	k and / Se	alf type at	site										2	tero R.L. of	gauge						
			(Coar	se sedimi	ent g/l)							(1)	tedium	sediment gi	(I)				Fine	Dissolved	Mean
Date	į.	11	10	IV	V	VI	VII	Total	Mean .	1	11	111	IV	V	VI	VII	Total	Mean	sediment (g/l)	Material (g/l)	velocity m / s
1										_			-			10000	More		0.000	11000	1000
2																					
3											-						-				
4																					
5																					
6										_											
7																					
6																					
9																					
0																					
1																					
Total																					
Average																					
M.Total																					
m.av																					
									DAILY	SLISP	ENDE	D SEDI	MENT	LOAD							
	1.0	lean .						parse sedi	0.000	-	Medium s	10/2/12/12/19/19	Olmi V.		ediment	-	W 1	l sediment			
Date	wate	or level	Disc	harge n/s)	(thouse	unoff and Ha.m)			Load	_	ntration	Load	Co	ncentration	Loa	rd.	Concentrati	The second second	ad		Remarks/
	_	(m)			(DIOD 31	11102.1 1003117	(g/l) (t	onnes/day)		2/1)	(tonnes/da		(g/I)	(tonnes		(g/l)		is/day)	Mod	e of Sampling
		1		2		3	- 4		5		6	7		8	9		10	1	1		12
1			-																		
2																					
3	-									-			-								
5			-										-								
6			+		-			-		-	_		-								
7			-							-			-								
8	-		+										-								
9	-		-							-		-	-					-			
0	+			_						-			-		-						
1										-								-			
Total								-													
Average										-								-			
M.Total																					
m.av																		-			

SI.NO: 17 Particulars of B.O.D Sample Form {1/8 size 8Kg Maplitho paper white (Single side printing) 100 sheet (Binding 1 bound Thick Board)

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION

PARTICULARS FOR B.O.D SAMPLE

Site		River / S	Stream	Date	:
S.No.	Particulars	1/4 of width	½ of width	¾ of width	Remarks
1.	Sample No.				
2.	Location				
3.	R.D. (m)		MALE		
4.	Time of Sampling				
5.	Depth of Sampling			3	
6.	Water depth (m)				
7.	Velocity (m/s)				
8.	In-Situ Temp°C				
9.	B O D Bottle No				

Signature

SI.NO: 18 Particulars of B.O.D Sample Register { 1/8 size 8Kg Maplitho paper white (Double side printing) 100 sheet (Binding 1.5 bound Thick Board)

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION

PARTICULARS FOR B.O.D SAMPLE

SUB DIV	/ISION:		·	D. I.	
		River / S	stream	Date	
S.No.	Particulars	1/4 of width	1/2 of width	3/4 of width	Remarks
1.	Sample No.				
2.	Location				
3.	R.D. (m)		MARIEN		
4.	Time of Sampling				
5.	Depth of Sampling			3 - 4 - 1	
6.	Water depth (m)			= 1 1 - 1 - 1 - 1	
7.	Velocity (m/s)				
8.	In-Situ Temp°C				
9.	B.O.D. Bottle No.				

Signature

SI.NO: 19 Particulars of Bed Material Survey Form {A4 size 8Kg Maplitho paper white (Single side printing) 100 sheet (Binding 1 bound Thick Board)

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION

PARTICULARS OF BED MATERIAL SURVEY

					D	ate for the	sample	collecte	ed						
S. Vo.	Date of Collection	Lab Sample No.	R.D.	R.L. of Dry Bed	R.L. of Bed Level	W.L. (GTS) of the sampling depth (m)	Depth of Water (m)	Width (m)	Velocity (m/s)	Disch (m3/s)	Wetted perimeter (m)	Hydraulic mean depth (m)	Mean Velocity (m/s)	Surface water slope	Discharge (m3/s)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Signature of Observer		Signature of Inspection Officer	:
Name		Date	:
Designation	:	Designation	:

SI.NO: 20 Particulars of Bed Material Survey Register
[A4 size 8Kg Maplitho paper white (Single side printing) 100 sheet (Binding 1.5 bound Thick Board)

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION

PARTICULARS OF BED MATERIAL SURVEY

						Date for the	sample	collecte	ed						
S. No.	Date of Collection	Lab Sample No.	R.D.	R.L. of Dry Bed	R.L. of Bed Level	W.L. (GTS) of the sampling depth (m)	Depth of Water (m)	Width	Velocity (m/s)	Disch (m3/s)	Wetted perimeter (m)	Hydraulic mean depth (m)	Mean Velocity (m/s)	Surface water slope	Discharge (m3/s)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Signature of Observe	er:	Signature of Inspection Officer	
Name		Date	
Designation		Designation	0

SI.NO: 21 Particulars of River Water Sample Form {1/8 size 8Kg Maplitho paper white (Single side printing) 100 sheet (Binding 1 bound Thick Board)

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION PARTICULARS OF RIVER WATER SAMPLE

SUB DIVISION:

Site	e	River / Stream
S.No.	Particulars	Remarks
1.	Sample No.	
2.	Location	
3.	R.D. (m)	
4.	Date of Collection	
5.	Time of Collection	
6.	Weather	
7.	Colour	
8.	Odour	
9.	In-situ temp.	
10.	Depth (m)	
11.	Velocity (m/sec)	
12.	Discharge (m³/sec)	
13.	pH (In-situ)	
14.	Conductivity (In-situ)	
15.	D.O. (mg/l)	1/41/23/4
16.	Atmos Temp. Max Min	Service Control of the Control of th

Signature :

Name :

Designation:

SI.NO: 22 Particulars of River Water Sample Register { 1/8 size 8Kg Maplitho paper white (Double side printing) 100 sheet (Binding 1.5 bound Thick Board)

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION PARTICULARS OF RIVER WATER SAMPLE

Site		River /	Stream
S.No.	Particulars		Remarks
1.	Sample No.		
2.	Location		Carte Fred
3.	R.D. (m)		
4.	Date of Collection		
5.	Time of Collection		
6.	Weather		
7.	Colour		
8.	Odour		
9.	In-situ temp.		
10.	Depth (m)		ENSTRE
11.	Velocity (m/sec)	Date in the second	
12.	Discharge (m³/sec)		FIG.
13.	pH (In-situ)	KI KI K	Maria de la constantia della constantia della constantia della constantia della constantia della constantia
14.	Conductivity (In-situ)	THE STATE OF	The same
15.	D.O. (mg/l)	1/41/2	3/4
16.	Atmos Temp. } Max Min		

Signature	:

Name :

Designation:

SI.NO: 23 Results of D.O & B.O.D of River Water Sample Form {1/4 size 8Kg Maplitho paper white (Single side printing) 100 sheet (Binding 1 bound Thick Board) Front

			KE	SULIS	DE EXPE	KIMEN	115 ON	D.O. 8	B.O.D.	OF RIVER	VVAIE	RSAMPLE	.5	
		:								Code No				
						- 1			1		В	.O.D. Bottle		
SI. No.	Lab. No.	Location	R.D.	Date of Sampling	Time of Sampling	Water depth (m)	Velocity (m/s)	Disch in m'/S	Depth of sampling (m)	In - situ temperature °C	No.	Correction factor per unit volume	Date of Standardisation	Number of experiments
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
				1-1-11										
_														
								-						
								-						
								-						
								-						

Back

		RESU	JLTS OF EX	PERIME			& B.O		VER	WATER	SAME	PLES		
Vol. of Na,S,O, consumed during standardi sation	Vol. of Pot. Dichromate sol. (.025 N) taken during standardi sation	Strength of Na,S,O, col. 17 x 0.25 col. 16 (SI)	Equivalent Value of oxyge w.r.t. 1 ml. of Na ₁ S ₁ O ₂ Sol. Consumed of strength (S, 0.25 x Col.18)	Vol. of Na,S,O, Sol. Consumed per 100 ml of titrant	D.O. in mg/100ml. of titrant cols. 19x20	In-Situ Col.21 Col.13 X 1000 100	Average	Conductivity micro mhos/cm	рН	Initial weight W,	Final weight W,	Difference W ₃ -W,	Total Dissolved Solids mg/l Col. 28x10000	Remarks
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

SI.NO: 24 Results of D.O & B.O.D of River Water Sample Register { 1/4 size 8Kg Maplitho paper white (Double side printing) 100 sheet (Binding 1.5 bound Thick Board)

Front

			RE	SULTS	OF EXPE	RIMEN	ITS ON	D.O. 8	B.O.D.	OF RIVER	WATE	R SAMPLE	S	
										Code No :				
						1					В.	O.D. Bottle		
SI. No.	Lab. No.	Location	R.D.	Date of Sampling	Time of Sampling	Water depth (m)	Velocity (m/s)	Disch in m³/S	Depth of sampling (m)	In - situ temperature °C	No.	Correction factor per unit volume	Date of Standardisation	Number of experiments
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
					1									
				1										
								-						
								-						

Back

Vol. of Pot. Dichromate													
Vol. of Pot.													
sol. (.025 N) taken during standardi sation	Strength of Na,5,0, col. 17 x 0.25 col. 16 (SI)	Equivalent Value of oxyge w.r.t. 1 ml. of Na,S,O, Sol. Consumed of strength (S, 0.25 x Col.18)	Vol. of Na,S,O, Sol. Consumed per 100 ml of titrant	D.O. in mg/100ml. of titrant cols. 19x20	In-Situ Col.21 Col.13 x 1000 100	Average	Conductivity micro mhos/cm	рН	Initial weight W.	Final weight W,	Difference W,-W,	Total Dissolved Solids mg/l Col. 28x10000	Remarks
17	18	19	20	21	22	23	24	25	26	27	28	29	30
		aauon	(3, 0.025 x Gol.18)	sation (S, 0.25 x Col.18) of titrant	sation (S, 0.25 x Col.18) of titrant	sation (S, 0.25 x Col.18) of titrant 193.20 100	sation (S. 0.25 x Col.18) of titrant 19320 100	sation (S. 0.25 x Col.18) of titrant 19840 100	sation (S. 0.22 x Col.18) of titrant 193.20 100	sation (S. 0.625 x Col.18) of titrant 198.40 100	sation (S, 0.25 x Col.18) of titrant 198.00 100	sation (S. 0.025 x Col.18) of titrant 100	aation (S. 0.025 x Co.18) of iltrant 1984 190

SI.NO: 25 Discharge Field Book Register { 1/6 size 8Kg Maplitho paper white (Double side printing) 100 sheet (Binding 1.5 bound Thick Board)

GOVT. OF INDIA CENTRAL WATER COMMISSION HYDROLOGY DIVISION

Date	DIVION	ON :	••••••				R.B. L.B			GUA	GE	.W.C/RD Field
Site	Time	C.Meter Spin	Water Temp.	Atmos Temp.	Wind Velo	U	S	C/	L	D	S	Temp
No.	Hrs.	Sec.	°C	°C	city	R.B.	L.B	R.B.	L.B	R.B.	L.B	Section
BEG												Line
END											1	Luci
	nt used	R.D. C				s \	Mean /elocity	. Sou Qua of	nding intity silt	Angle	vith	Remarks
1	+	-					M/Sec.	san	nple	00	-	
2	_					_					-	
3	_										-	
4												
5											_	
6												
7												
8				-4).								
9												
10												100
11								-				
12												
13												
14	_											100
16								-				
17			-					-				
18							-	-				
11						-		-				
19											-	
19												
20	1.											
			-									

SI.NO: 26 Inspection and Quality Audit Report Register {1/4 size 8Kg Maplitho paper white (Double side printing) 100 sheet (Binding 1.5 bound Thick Board)

		CENTRAL RIVER C	BAUGING			
Divisio	n : Hydrology Division, CV	VC Chennai	S	ub-Divi	sion:	
	No / Code.:	vo, onema	Station Name:-			
River:	110 / 0006.			asin:		
				don'i		
	INSPECTION/AUDIT : G	ENERAL DE	TAILS			
Date o	of Inspection :					
nspec	cted by :			Desi	gnation :	
Assist	ed by :			Desig	gnation:	
Time o	of start			Time	of completion :	
2	SITE CONDITIONS					
Weath	ner conditions :					
River	conditions :					
	conditions : STAFFING (manned sit	es only)				
		es only)	4		5	6
3	STAFFING (manned sit		4 Present (Yes/ No)	If ans	5 ower to column (4) is lo"; give reasons	
3	STAFFING (manned sit	3	Present (Yes/	If ans	swer to column (4) is	
3	STAFFING (manned sit	3	Present (Yes/	If ans	swer to column (4) is	
3	STAFFING (manned sit	3 Position	Present (Yes/	If ans	swer to column (4) is	
3 1 No.	STAFFING (manned sit	3 Position	Present (Yes/	If ans	swer to column (4) is	
3 1 No.	STAFFING (manned sit 2 Name STAGE MEASUREMENT Measuring equipment 6 Gauges	3 Position	Present (Yes/	y (1)	swer to column (4) is	

Staff gauge reading	
Condition of gauges (Good/Fair/Poor)	
Condition of river bank/gauge foundations/ fixings	
Action required	

Bench Marks:

Condition of primary site bench mark (BM1) (MTBM):

Condition of secondary site bench mark (BM2) (TBM at 3 gauge lines)

Good/Fair/Poor Good/Fair/Poor

Key level checks:

Undertake a comparison of bench mark levels and visible gauge posts and compare with previous reading (By leveling).

Comments on level differences/ discrepancies (if any) including actions required:

Instruments Installed

Equipment	Yes/ No	Туре	Make(s)	Serial Nos.	Date installed
AWLR					
DWLR					
Diptone or other device to measure water level in stilling well / telemetry devices					

4.2 Instrument performance and quality check

4.2 Instrumer	it periormane					
Instrument/ method	Level	Time	Level Diff. (w.r.t. RL of Water Surface)	Time diff. (current time and time in instrument)	Stage of instrument Good/Fair/ Poor	Comments / Action required
Primary staff gauge						
AWLR						
DWLR						
Level in stilling well						

If stilling well installed does it need de-silting:

Yes / No

4.3 Check on observers

Observer(s) to read gauge at same time as inspecting officer:

Gauge	Observer reading	Inspecting Officer reading	Reading difference (if any)	Comments
Primary gauge				
Secondary gauge (1)				
Secondary gauge (2)				
Secondary gauge (3)				
Well gauge/diptone reading				

Additional comments on observer performance :

4.4 Quality check on data record sheets

Items	Good/Fair/Poor	Remarks
Neatness		
Completeness		
Accuracy		
Other		

- 4.5 General Observations on Stage Monitoring
- FLOW MEASUREMENT
- 5.1 Equipment

Current Meters

Serial/Ref. No.	Meter Type	Make	Date of last calibration	Spin test OK? Yes / No; Rated /	Remarks
				Observed Observed	
		1000			

Revolution counters

Serial/Ref.	Counter	Make	-		
No.	type	Wake	Timer (if fitted) OK? Yes/No	Pulse counts OK? Yes / No	Remarks
				1007140	

ASS	ociated equipment	
a)	Wading equipment?	
	If 'Yes', answer the following	Yes / No
	Wading rods Condition	
	Replace?	Good / Fair / Poor
	Distance measurement equipment e.g. tapes, tag lines	Yes / No
	Condition Condition	
	Check distance marks against reliable tape:	Goods / Fair / Poor
	Replace?	
		Yes / No
b)	Bridge outfit?	Yes / No
	If 'Yes', answer the following	
	Suspension derrick / bridge outfit Condition	Good / Fair / Poor
	Depth measurement: Winch counter installed?	Yes / No.
	If 'Yes', check against known Reference;	
	If 'No', check, method of determining depth and position in vertical	
Hor	izontal distance measurement:	
1101	Are bridge markings at frequent enough interval?	Yes / No
	Are bridge markings clearly visible	Yes / No
	Pulse Counting	1637110
	Condition of connecting cable	Good / Fair / Poor
	Check performance of counter/meter in situ, OK?	Yes / No
	onder performance of countermitter in situ, ore:	
c)	Bank operated cable way?	
-,	If 'Yes' answer the following:	
	Date of last service/maintenance:	
	Condition of cables and winches:	Good / Fair / Poor
	Condition of support stanchions	Good / Fair / Poor
	Comments:	
	Check horizontal distance counter OK?	Yes / No
	Check depth counter OK?	Yes / No
	Pulse Counting:	
	Condition of connecting cable	Good / Fair / Poor
	Check performance of counter/meter in situ, OK?	Yes / No

Manned cable way?

If 'Yes', answer the following:

Date of last service/maintenance

Condition of tower

Condition of cable way and winches

Yes / No

Good / Fair / Poor

Good / Fair / Poor

Good / Fair / Poor

Condition of carriage:

Comments with particular reference to operator safety:

d) Boat gauging? Yes / No

Condition of suspension equipment

Good / Fair / Poor

Condition of distance measuring equipment

Good / Fair / Poor

e.g. pivot points, tag lines/cables

Condition of boat Good / Fair / Poor

Condition of outboard engine (Including logbook/history sheet maintenace)

Good / Fair / Poor

Number of life jackets: Number of life buoys:

Condition of life jackets and life buoys Good / Fair / Poor

Pulse Counting:

Condition of connecting cable Good / Fair / Poor

Check performance of counter/emeter in situ, OK?

Yes / No

5.2 Quality checks on Maintenance of Current Meter Gauging Forms

			1960
Items	Good / Fair / Poor	Remarks	
Neatness			
Completeness			
Accuracy			100
Other.			

5.3 Flow Measurement Structures

Note: This section should only be completed if there is a structure is used for flow measurement purposes.

Type of structure (e.g. Crump weir, gated spillway etc.)

Condition

Item	Condition	Remarks
Crest		Remarks
Approach		
Exit/down stream channel		
Divide walls		
Gages		
Gate opening measurement device		
HEP off-take		
Other		

General Observations on Flow Measurement:

OTHER EQUIPMENT

Items	Equipment provided Yes/ No	Type and Make	Serial No.	Condition	Remarks / Actions Required
SRG					
ARG					
TBR					
FCS					
Thermometers					
Sunshine recorder					
Radiometer					
Net Radiometer				8100	MOTTO IAME
Anemometer					
Wind direction					
Evaporation pan					
Suspended solids sampler					
Bed load Sampler					

7. BUILDINGS AND INSTRUMENT HOUSINGS

7. BUILDINGS	AND INSTRU	IVI LIVI			
Item	Please Tick the appropriate box(es)	Water tight Yes / No	Secure Yes / No	General Condition	Action / remarks
AWLR / DWLR housing					
Office					
Stores					
Other e.g. sleeping quarters		t inventory (D	ate of last che	ck by SDE:	/ EE:

8. ACTION ITEMS

ACTION ITEMS			T	Astrol	
Task /Action Required	Additional Comments	Action Officer	date to completion	completion	Action approved by
	Task /Action	Task /Action Additional	Task /Action Additional Action Officer	Task /Action Additional Action Officer Target date to	Task /Action Additional Action Officer Target date to completion

9.	FINAL	OBSERVATIONS

9.1 Overall comments:

9.2 Urgent actions:

Date:

FIELD INSPECTION AND QUALITY AUDIT REPORT

CENTRAL WATER COMMISSION
RAIN FALL STATIONS (SRG/ARG)

Divisio	n : Hydrology Division, (CWC, Chennai			
Station	No.:		S	tation Name:-	
River:			E	asin :	
1 1	NSPECTION/AUDIT : (GENERAL DETA	ILS		
Date o	f Inspection :				
Inspec	ted by :			Designation :	
Assiste	ed by:			Designation :	
Time o	of start			Time of completion :	
Weath	SITE CONDITION ner conditions :				
River	conditions:				
3	STAFFING (manned s	ite only)			
1	2	3	4	5	6
No.	Name	Position	Present (Yes/ No)	If answer to column (4) is 'No"; give reasons	Remarks

	NSPECTION CHECK LIST (SRG/ARG)	Remarks of	Observations of nex
SI. No.	Particulars	Inspecting Officer	higher authority.
1.	Whether the instrument is suitably fixed (installed) and is in good working condition.		
2.	Whether the measuring glass is appropriate to the capacity of the rain gauge (SRG) or charts appropriate to the capacity of ARG and clean.		
3.	Whether the observer is fully conversant with rainfall measurements and makes correct observation at proper time (0830 hrs IST) and makes correct entries in the records. Whether Observer is synchronising his watch to get proper time setting.		
4.	Whether the observer sets or removes charts (ARG) at proper time (0830 hrs IST)		
5.	Whether the observer checks the working of clock drum and siphoning mechanism of the instrument before commissioning the rain gauge (ARG)		
6.	Whether all rainfall records are properly and neatly maintained and data dispatched to controlling SDO office in time.		
7.	Whether any part of the rain gauge requires repair or resetting or replacement.		
8.	Whether the capacity of the rain gauge is appropriate at places where heavy rainfall is recorded.	films and hen	
9.	Whether the observatory enclosure field, instrument housing/enclosures are kept clean, and fencing and exposure conditions are good.		
Gener	al remarks:		
		Signature and d	lesignation of the

FIELD INSPECTION AND QUALITY AUDIT REPORT

CENTRAL WATER COMMISSION HP FULL CLIMATIC STATIONS (HP-FCS)

Divisio	n: Hydrology Division, CWC	C, Chennai			
Station	1 No.:		S	Station Name:-	
1	INSPECTION/AUDIT : GEN	ERAL DETA		Basin:	
Inspec	cted by:		D	esignation :	
Assist	red by:		D	esignation :	
Time	of start:		Т	ime of completion :	
2	SITE CONDITION				
Weat	her conditions :				
River	conditions : STAFFING (manned site of	only)			
1	2	3	4	5	6
No.	Name	Position	Present (Yes/ No)	If answer to column (4) is 'No"; give reasons	Remarks

4 INSPECTION CHECK LIST (SRG/ARG)

SI. No. Particulars Inspecting Officer higher authorit 1. Whether the instrument is suitably fixed (installed) and is in good working condition. 2. Whether the measuring glass is appropriate to (CRG) or charts	- 11	NSPECTION CHECK LIST (SROWLE)	Demorks of	Observations of next
2. Whether the measuring glass is appropriate to		Particulars	Remarks of Inspecting Officer	higher authority.
Whether the measuring glass is appropriate to the capacity of the rain gauge (SRG) or charts the capacity of the rain gauge (SRG and clean. appropriate to the capacity of ARG and clean.	1.	(installed) and is in good works		
	2.	Whether the measuring glass is appropriate to the capacity of the rain gauge (SRG) or charts appropriate to the capacity of ARG and clean.		

3.	Whether the observer is fully conversant with	
0.	rainfall measurements and makes correct	
	observation at proper time (0830 hrs IST) and makes correct entries in the records. Whether	
	Observer is synchronising his watch to get	
	proper time setting.	
4.	Whether the observer sets or removes charts	
	(ARG) at proper time (0830 hrs IST)	
1		
5.	Whether the observer checks the working of clock drum and siphoning mechanism of the	
	instrument before commissioning the rain	
	gauge (ARG)	
6.	Whether all rainfall records are properly and	
	neatly maintained and data dispatched to controlling SDO office in time.	
	controlling and office in time.	
7.	Whether any part of the rain gauge requires	
	repair or resetting or replacement.	
8.	Whether the capacity of the rain gauge is	
	appropriate at places where heavy rainfall is	
	Toolded.	
9.	Whether the observatory enclosure field,	
	instrument housing/enclosures are kept clean	
	and fencing and exposure conditions are good.	
Genera	al remarks:	
		Cignotina
		Signature and designation of the inspecting officer
		The second of th

SI. No.	Particulars	Remarks of Inspecting Officer	Observations of next higher authority.
1	2	0	
	The inspector should check the following:	3	4
1.	Whether the wind instruments are properly installed at 2m height above ground, balanced lever turns freely, no rusting etc.		
2.	Whether the exposure conditions are good and both the anemomenter and the wind vane are fixed at least 2 m apart.		
3.	Whether Ball bearing is received with a few drops		

_	of spindle oil every fortnight.		
4.	Whether the observer washes all parts of the instrument thoroughly in Kerosene oil, clean and lubricate them every six months.		
5.	Whether the observer measures the wind speed by following the correct procedure.		
6.	Whether all nuts, especially that of cups, are fully tightened		
Genera	al remarks:		
		Signature the inspec	and designation of ting officer
	isable that the Inspector		

It is advisable that the Inspector carries out the complete cleaning and oiling operation of the wind instrument by following the laid-down maintenance procedure. He should also check the accuracy after reassembling the instruments.

Thermometers

For temperature measurement, the instruments provided at FCS are:

- Dry bulb thermometer
- Wet bulb thermometer
- Maximum thermometer
- Minimum thermometer and
- Thermograph

The Inspector should ensure that all the thermometers are mounted and placed properly i.e. for sunshade and ventilation.

The relative humidty is calculated from the difference of temperature between dry bulb thermomenter and wet bulb thermometer. It is also measured directly from Hygrograph.

6 INSPECTION CHECK LIST FOR THERMOMETERS

SI. No.	Particulars	Remarks of Inspecting Officer	Observations of next higher authority.
1	2	3	4
	The inspector should check the following:		
1.	Wick of the wet bulb thermometer is clean and properly tied.		
2.	Thermometers setting is done correctly.		
3.	Ensure that the thermometers are recording correct temperature.		
4.	The graduation is clearly readable.		

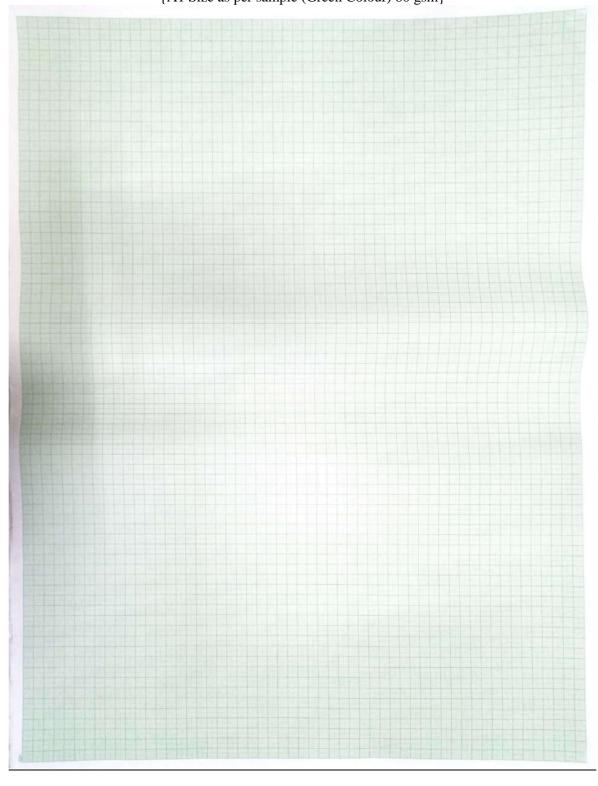
			Signature and designation of the inspecting officer	
Gener	al remarks:			
8.	The temperature and humidity values are comparable with the observation made by mercury thermometers.			
7.	Sensors of both Thermograph and Hygrograph are clean and instruments are working properly.			
6	.The Stevenson screens are fixed at proper height above the ground, well-painted and free from white ants.			
5	The Stevenson screen door opens towards North and does not obstruct to prevailing wind.			

Evaporation is measured by class "A" Pan Evaporimeter. As the measurement of evaporation is made by adding known quantity of water to the pan from a graduated cylinder, the observer has to be thoroughly conversant with the whole procedure. This has to be checked by the inspector.

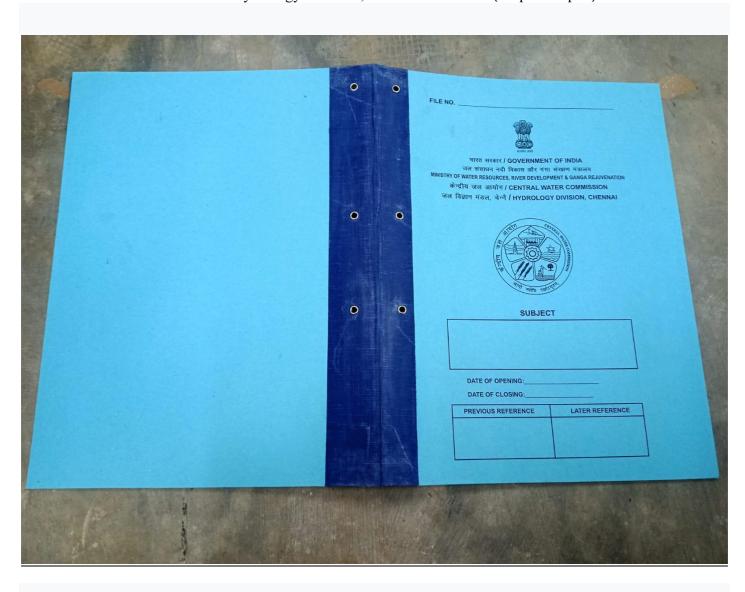
7 INSPECTION CHECK LIST FOR EVAPORIMETER:

SI. No.	Particulars	Remarks of Inspecting Officer	Observations of next higher authority.
1	2	3	4
	The inspector should check the following :		
1.	The instrument is clean, painted, leveled and covered with wire mesh from top.		
2.	The Reference Point is sharp.		
3.	There is no leak in the pan.		
4.	Pan is cleaned and filled with fresh water every fortnight and painted with chlorinated white rubber paint every year.		
5.	During the rainy season, ensure that the wooden platform and bottom of the pan are perfectly horizontal.		
Gener	al remarks:		
		Signature at the inspection	nd designation of ng officer

Sli.NO: 27 Graph Sheet (A1) size (green color) {A1 Size as per sample (Green Colour) 80 gsm}



SI.NO: 28 Flie Folder File Name : Hydrology Division, Chennai – 200 nos {As per Sample }



SI.NO: 29 Flie Folder - PPSD File Name : Palar Ponnaiyar Sub-Division, Chennai – 100 nos {As per Sample }

0	FILE NO.				
	स्त्रामेय जार				
чіе	भारत सरकार / GOVERI जल संसाधन नदी विकास अ MINISTRY OF WATER RESOURCES, RIVER DE केन्द्रीय जल आयोग / CENTRA तार पोन्नैयार उपखंड, चेन्नै / PALAR PONNA	रि गंगा संरक्षण मंत्रालय :VELOPMENT & GANGA REJUVENATIO AL WATER COMMISSION			
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	DATE OF CLOSING:				
	PREVIOUS REFERENCE	LATER REFERENCE			

SI.NO: 30 Flie Folder - CDSD File Name : Cauvery Delta Sub-Division, Karaikal – 100 nos {As per Sample }

0	FILE NO.					
	संदर्भव जयते सत्यम्य जयते					
	भारत सरकार / GOVERNMENT OF INDIA					
	जल संसाधन नदी विकास और गंगा संरक्षण मंत्रालय MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION					
	केन्द्रीय जल आयोग / CENTRAL WATER COMMISSION					
	कावेरी डेल्टा उपखंड, कारैकाल / CAUVERY DELTA SUB-DIVISION, KARAIKAL					
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	SUBJECT					
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	DATE OF CLOSING:					
	PREVIOUS REFERENCE LATER REFERENCE					
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SI.NO: 31 Flie Folder - PSD

File Name : Pennar Sub-Division, Kadapa – 100 nos {As per Sample }

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भारत सरकार / GOVERNMENT OF INDIA जल संसाधन नदी विकास और गंगा संरक्षण मंत्रालय MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION	
केन्द्रीय जल आयोग / CENTRAL WATER COMMISSION पेन्नार उपखंड, कडप्पा / PENNAR SUB-DIVISION, KADAPA	
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SI.NO: 32 File Pad {As per Sample }

