Enclosure 2 **CHECK LIST** For the proposal for Diversion of Forest Lands for non-Forestry purpose under the Forest Conservation Act, 1980 for <u>Linear Projects</u>: Railway/UG Gas Pipeline/Water Pipeline/Optical Fibre/Electricity Lines etc. State S. No. of Project: Date of receipt in NO-PCCF's office: Name of the Project: Providing Drinking water to habitations in Godavari and pusuru segments covering Bhadrachalam, Pinapaka, Aswara opeta, Sathupalli (part), Kotha gudem, Yellandu, and Wyra (part) consistituencies in Khammam District - Segment25/3 Area proposed for diversion, in Ha: 4.562 Name of the Forest Division: Khammam Whether area proposed falling in WLS / NP / ESZ / Biosphere No Reserve or WL Corridor? Whether situated in Scheduled Area YES S. No. Name of Document/Information Provided or Not Page No. Remarks (Yes/No) A PART-I Main application Form from Part-I to V with all its col- umns duly filled up and Yes 1-3 signed by the competent authority with date, place and their official seal. 2 Detailed note on the project. Yes Full Justification for locating the project in forest area 3 Yes 10 - 13 (un-avoidance of the forest area for the purpose) Certificate for minimum use of forest land giving details of the alternatives 4 Yes 16 examined and reasons for their rejection. Map of the project site forest area demanded on original Survey of India topo-5 sheet in 1:50000 or any other suit- able scale; clearly showing forest boundaries and Yes 31 - 32 adjoining areas with their land use in distinct colors. Index Map, if the area is very small, showing forest boundaries and a location 6 map on a larger scale with land use of the area required. Yes Geo-referenced digital data (e00 format, Geographic co-ordinate system WGS 84 datum, readings up to 8 decimal places in degrees) of the boundary/ies of the proposed FL for diversion in Shape file (Soft copy in a DVD along with RAW & postprocessed data) and digital map in hard copy duly authenticated by competent Yes *The survey shall be performed using DGPS in real-time or post-processed mode. However the survey may be performed using TS in GPS shadow areas, and data shall be duly georeferenced using GCPs collected by dual frequency DGPS receivers. Make & Model of the DGPS equipment used, Names of the Agency/persons 8 involved in the DGPS survey, period of survey, name of the authenticating agency for the accuracy of the survey. 9 Linear map or a diagrammatic map of the project site. Yes Statement showing the details of forest area involved i.e. Division, Range, Beat, 10 Yes Forest Block & Compartment No. wise 28 11 Item wise breakup of the forest area proposed for di-version, if any Yes 23 Cost Benefit (CB) analysis in prescribed format, wher-ever required. (For projects 12 Yes 25 involving area of >20 Ha in plains & >5 Ha in hills)

13	Status of clearance under Environment (Protection) Act , 1986 & Rules 2006; wherever required.	No		
14	Detailed scheme for rehabilitation of project affected persons , wherever required.	No		
15	Minimum distance of the proposed site from Wildlife Sanctuary and/or National Park, if any.	No		
16	To show the existing Water body / Water channel or road, which should be identifiable.	No		
17	To show the newly proposed bridge /culvert / under- ground pass / tunnel etc. to be identify clearly.	No		
18	To enclose the cross section Plan / Map indicating dimension of (Length / Width / Height /depth etc) clearly.	Yes	30	
19	Undertaking to pay the Net Present Value (NPV), Addl. NPV of the forest land involved.	Yes	17	
20	Undertaking to pay the Extraction Charges of the trees to be removed from the forest land involved.	Yes	14	
21	Details of equivalent non-forest land identified for Compensatory Afforestation viz. Survey No., Village, Tahsil /Mandal, District etc. along with map in SOI Toposheet in 1:50000 or appropriate scale along with the boundaries of adjoining forest area.	NA		
22	Geo-referenced digital data of CA land (e00 format, Geographic co-ordinate system WGS 84 datum, read- ings up to 8 decimal places in degrees) of the boundary/ ies of the proposed FL for diversion in Shape file (Soft copy in a DVD along with RAW & post-processed data) and digital map in hard copy duly authenticated by competent authority. * The survey shall be performed using DGPS in real-time or post-processed mode. However the survey may be performed using TS in GPS shadow areas, and data shall be duly geo-referenced using GCPs collected by dual frequency DGPS receivers.	NA		
23	Make & Model of the DGPS equipment used, Name/s of the Agency/persons involved in the DGPS survey, period of survey, name of the authenticating agency for the accuracy of the survey.	NA	24	
24	Certificates a, c, d, g & h under RoFR Act; where Primi- tive Tribal Groups (PTG) & Pre-Agricultural Commu- nities (PAC) are involved in the proposed FL.	Will be submitted to the DFO		
В	Part II			
1	Enumeration list of trees (species and girth class wise) along with Abstract.			
2	Site inspection report, along with photographs, of the forest area involved in the project in prescribed format.			
3	Impact of proposed project on the flora & fauna in the adjoining forests.			
1	Impact of proposed project on the ecology, specially soil erosion in and around the proposed area for mining.			
5	Mitigative measures to prevent loss to flora, fauna & soil erosion in & around the proposed area for the project.			
	Detailed scheme for Compensatory Afforestation on identified non-forest area/degraded forest area at present wage rates duly signed by DFO and counter signed by the CF concerned.			
1	Certificate from the DFO that non-forest land selected for compensatory afforestation is in a compact block and contiguous to forest area or in close proximity of forest area and suitable from the management and protection point of view.			
	Soil Suitability Certificate from Divisional Forest Officer that the area identified for compensatory Afforestation is suitable for raising plantation.			

9	Calculation Sheet for arriving at NPV of the proposed area for diversion.		
10	Certificate that no work has been carried out in violation of the FC- & WL act.		
a	II violated, circumstances leading to violation, date of commencement of work, quantity of work done and POR issued & dates inspection of the site of violation by FRO_Sub-DFO_DFO		
b	Details of disciplinary action initiated or proposed to be initiated against the concerned staff for violation of the provisions of the Act.		
c	Names of the persons of the User Agency for violation & details of the report submitted.		
11	Specific Recommendation of the DFO.		
C	PART III (To be filled in by the CF)	_	+
1	Site inspection report, along with photographs, of the forest area involved in the project in prescribed format, when the area is more than 40 Ha in extent.	+	
2	Specific Recommendation of the CF.	_	-
3	Any other information/documents attached or conditions stipulated.		-

Superintending Engineer TDWSP Circle,Khammam "Counter Signed"

Chief Engineer TDWSP,Hyderabad

Statement showing the proposal for permission for laying the drinking water supply pipe line in reserve forest area in Khammam District.

Segment 25/3

The area of operation for clearance is as follows:

	Stretches	Length in mts	Dia of pipe in mm	Width	Depth	Area in Hectares
1	From RSF Radham gutta to GLBR on Radham Gutta and path	40831.407	63 to 1800	0.70 -2.50	1.0-1.80	4.562
2	RSF and other structures at Radhamgutta	Struture				0.0000

Total

40831.407

4.562

Area required

4.5620 Ha

Superintending Engineer RWS&S ,TDWSP

Khammam

"Counter signed"

Chief Engineer

RWS&S,TDWSP Hyderabad

DETAILS OF SURVEY INSTRUMENTS USED

Sl.n o	Name of the Agency	Instruments used	Persons involved	Period of survey
1	M/S Lakshman Enerprises,HYD	DGPS make,Trimble -R14,Dual Freq	Sangameshwar rao	November and December 2015

Superintending Engineer RWS&S TDWSP,Khammam.

"Counter Signed"

Chief Engineer RWS&S TDWSP,Hyderabad

BEAT RANGE FORMAT

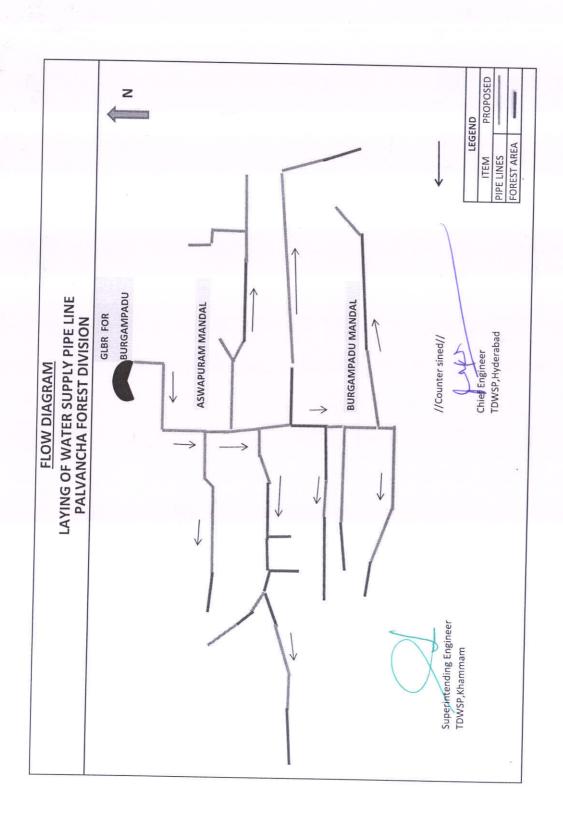
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GODAVARI PALONCHA UPPUSAKA PALONCHA SURARAM UPPUSAKA 7 GODAVARI PALONCHA SOMPALLI ASWAPURAM SARAPAKA SOMPALLI 1 GODAVARI PALONCHA SOMPALLI ASWAPURAM SARAPAKA SOMPALLI 1	= :	\neg		PALONCHA	UPPUSAKA	PALONCHA	SURARAM	UPPUSAKA	7	0000
GODAVARI PALONCHA UPPUSAKA PALONCHA SURARAM UPPUSAKA 9 GODAVARI PALONCHA SOMPALLI ASWAPURAM SARAPAKA SOMPALLI 1	1			PALONCHA	UPPUSAKA	PALONCHA	SURARAM	IIPPIISAKA	, ,	0.020
GODAVARI PALONCHA SOMPALLI ASWAPURAM SARAPAKA SOMPALLI 1 GODAVARI PALONCHA SOMPALLI ASWAPURAM SARAPAKA SOMPALLI 1	=	\neg		PALONCHA	UPPUSAKA	PALONCHA	SHRABAM	ANACOLIO	. (0.007
GODAVARI PALONCHA SOMPALLI ASWAPURAM SARAPAKA SOMPALLI 1	\leq			PALONCHA	SOMPALLI	ASWAPIJBAM	SARABAKA	CONTRACTO	ñ ,	090.0
ASWAPURAM SAKAPAKA SOMPALLI 1	1	MAN		Г	SOMBALLI		באור באורכ	SOIVIPALLI	1	0.196
	1	-		7	SOIMI ALL	- 1	SAKAPAKA	SOMPALLI	1	0.024

"Counter signed"

Superintending Engineer RWS&S ,TDWSP .

Khammam

Chief Engineer RWS&S,TDWSP Hyderabad



OVER FILL (GRANULAR MATERIAL IN LAYER NOT GREATER THAN SCM IN EACH LAYER) 15 TO 45CM SIDE FILL 1 OVER FILL GRANVILAR MATERIAL IN LAYER NOT GREATER THAN 5CM IN EACH LAYER) 15 TO 30CM WIDTH-2.5 M DI PIPE DETAIL SIDE FILL (1600 MM) (100 MM TO 150MM) WIDTH-0.9M MAP SHOWING PIPELINE CROSS-SECTION IN FOREST AREA OF PALVANCHA TELANGANA DRINKING WATER SUPPLY PROJECT SEGMENT-25 GODAVARI DI PIPE DETAIL 3 DEPTH-2.4M SIDE FILL Counter Sined DEPTH-1.2M SIDE FILL OVER FILL (GRANULAR MATERIAL IN LAYER NOT GREATER THAN SCM IN EACH LAYER) OVER FILL (GRANULAR MATERIAL IN IAYER NOT GREATER THAN SCM IN EACH LAYER) 15 TO 30CM SIDE FILL 1 15 TO 30CM SIDE FILL No. HDPE PIPE DETAIL WIDTH-0.9M DI PIPE DETAIL WIDTH-1.3M (700 MM) (160 ABLTO 250MBB SIDE FILL 1 DEPTH-1.2M O. C. DEPTH-1.8M SIDE FILL (GRANULAR MATERIAL IN LAYER NOT GREATER THAN 5CM IN EACH LAYER) OVER FILL (GRANULAR MATERIAL IN LAYER NOT GREATER THAN 5CM IN EACH LAYER) OVER FILL 15 TO 30CM SIDE FILL 15 TO 30CM SIDE FILL J. DI PIPE DETAIL (200 MM TO 300MM) HDPE PIPE DETAIL (63 MM TO 140MM) WIDTH-0 9M WIDTH-0.7M C DEPTH-1.3M DEPTH-1.0M SIDE FILL SIDE FILL

CATE Engineer (NW/S&S), Hyderabad.

SELTOWS CMM